

AUTOMOTIVE RELAYS

**DG34 SERIES
AUTOMOTIVE INDUSTRIAL
POWER RELAYS**

Just Added



Features:

- High resistance to inrush current
- For PCB or chassis mounting
- Flat insert faston terminal options
- AC and DC coils

Specifications:

- Max. inrush current: 80A
- Contacts: SPST-NO
- Contact material: AgCdO
- Max switching voltage: 277VAC, 30VDC
- Min switching voltage: 10VAC/DC
- Min switching current: 10mA
- Insulated rated voltage: 250VAC
- Mechanical life: 10million cycles



Mfg. Part No.	Carry Current (A)	Contacts	Coil Voltage (VDC)	Coil Resist. (Ω)	Stock No.	Price Each
DG34-1021-36-1012-F	30	SPST-NO	12	144	59P3464	3.25

(145374)

**DG36 SERIES INDUSTRIAL
POWER RELAYS**

Just Added



Features:

- 2-pole heavy duty power relays
- Up to 30A switching capacity
- Flat insert connectors - faston 6.35 x 0.8mm
- Optional PCB mounting
- 8mm creepage distance and 4kV dielectric

Specifications:

- Max. inrush current: 30A
- Contacts: DPST-2NO
- Contact material: AgSno²
- Max switching voltage: 277VAC
- Min switching voltage: 10VAC/DC
- Min switching current: 100mA
- Insulated rated voltage: 250VAC
- Mechanical life: 5million cycles



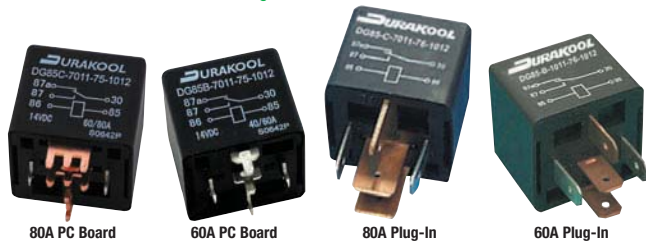
Mfg. Part No.	Carry Current (A)	Contacts	Coil Voltage (VDC)	Coil Resist. (Ω)	Stock No.	Price Each
DG36-3022-S6-1012	30	DPST-2NO	12	86	59P3465	9.09

DC COIL VERSION

Mfg. Part No.	Carry Current (A)	Contacts	Coil Voltage (VDC)	Coil Resist. (Ω)	Stock No.	Price Each
DG36-3022-S6-6120	30	DPST-2NO	120	950	59P3466	11.25
DG36-3022-S6-6240	30	DPST-2NO	240	3800	59P3467	11.70

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**60-80A AUTOMOTIVE
RELAYS**



60-80A AUTOMOTIVE RELAYS (CONT.)

- High resistance to inrush current
- Ideal for DC motor control
- Industry standard size and footprint
- High continuous DC current capacity
- Contact material: AgNi0.15
- Power consumption: 1.6W (1.81W with resistor)



Wire Harness Socket for 80A Relays

Mfg. part no. with suffix "DR" has diode option, suffix "R" has resistor option, suffix "MR" has metal bracket option. Insulation dielectric strength coil contact: 500Vrms/1min. 30A versions available; go online or call.

Mfg. Part No.	Contacts	Coil Volt. (VDC)	Coil Resist. (Ω)	Cover Protect.	Stock No.	Price Each
● DG85C-8021-75-1012	SPST-NO	12	90	IP54	30M9205	7.36
● DG85C-8021-75-1024	SPST-NO	24	330	IP54	30M9210	5.90

60A PC BOARD RELAYS

● DG85B-8021-75-1012	SPST-NO	12	90	IP54	30M9183	3.58
● DG85B-8011-35-1012	SPDT	12	90	IP67	30M9187	3.76
● DG85B-8011-75-1012	SPDT	12	90	IP54	30M9190	3.71
● DG85B-8011-35-1024	SPDT	24	330	IP67	30M9188	3.83
● DG85B-8011-75-1024	SPDT	24	330	IP54	30M9191	3.78

100A PLUG-IN RELAYS

DG85D-7021-76-1012	SPST-NO	12	90	IP54	59P3469	18.12
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80A PLUG-IN RELAYS

● DG85C-8021-76-1012	SPST-NO	12	90	IP54	30M9206	7.31
● DG85C-8021-96-1012-M1	SPST-NO	12	90	IP40	30M9207	7.56
● DG85C-8021-96-1024-M1	SPST-NO	24	330	IP40	30M9208	6.23
● DG85C-8021-96-1024-M1DR	SPST-NO	24	330	IP40	30M9209	7.54
DG85C-7011-76-1012	SPDT	12	90	IP54	59P3468	14.52

60A PLUG-IN RELAYS

● DG85B-8021-76-1012-DR	SPST-NO	12	90	IP54	30M9184	3.46
● DG85B-8021-96-1012-M1	SPST-NO	12	90	IP40	30M9198	3.05
● DG85B-8011-96-1006-M1	SPDT	6	22	IP40	30M9197	3.78
● DG85B-8011-96-1012	SPDT	12	90	IP54	30M9192	3.46
● DG85B-8011-76-1012-DR	SPDT	12	90	IP54	30M9193	3.28
● DG85B-8011-96-1012-M1	SPDT	12	90	IP40	30M9185	3.78
● DG85B-8011-96-1012-M1R	SPDT	12	90	IP40	30M9199	3.34
● DG85B-8011-96-1012-S1	SPDT	12	90	IP40	30M9200	3.86
● DG85B-8011-96-1012-S1R	SPDT	12	90	IP40	30M9201	3.91
● DG85B-8011-76-1024	SPDT	24	330	IP54	30M9194	3.52
● DG85B-8011-76-1024-DR	SPDT	24	330	IP54	30M9195	3.86
● DG85B-8011-96-1024-M1DR	SPDT	24	330	IP40	30M9186	3.46
● DG85B-8011-36-1024-R	SPDT	24	330	IP67	30M9189	3.53
● DG85B-8011-76-1024-R	SPDT	24	330	IP54	30M9196	3.48
● DG85B-8011-96-1024-M1	SPDT	24	330	IP40	30M9202	3.46
● DG85B-8011-96-1024-S1	SPDT	24	330	IP40	30M9203	3.78
● DG85B-8011-96-1024-S1R	SPDT	24	330	IP40	30M9204	3.99

RELAY SOCKETS

Mfg. Part No.	Description/ For Use With	Stock No.	Price Each
● DZ85AB-5-WH1	Wire Harness, 40 and 60A Relays	30M9213	0.53 0.51 0.50
● DZ85AB-5-WH2	Wire Harness with Bracket, 40 and 60A Relays	30M9214	1.21 1.17 1.13
● DZ85-4-WH	Wire Harness, 80 and 100A Relays	30M9211	0.84 0.80 0.78
● DZ85AB-5-PCB	PC Board, 40 and 60A Relays	30M9212	1.54 1.48 1.43

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**AUTOMOTIVE
POWER RELAYS**

- Coil voltage: 12VDC
- Operating voltage: 10 - 16VDC
- Coil resistance: 78Ω ±10%
- Max. resistive load: SPST: 40A, SPDT: 40A(NO)/20A(NC)
- Operating ambient temperature: -40°C to 125°C



Mfg. Part No.	Contacts	Coil Resist. (Ω)	Options	Stock No.	Price Each
G8JN-1C6T-DC12	SPDT	78	Weatherproof	89C6833	6.53 6.12
G8JN-1C6T-F-DC12	SPDT	74	Weatherproof, Metal Bracket	89C6834	7.25 6.53
● G8JN-1C7T-DC12	SPDT	78	...	17M6695	6.20 5.78
● G8JN-1C7T-MF-DC12	SPDT	78	Molded Plastic Bracket	17M6696	6.10 5.76

➔ CONTINUED ➔

AUTOMOTIVE RELAYS • IMPULSE RELAYS

AUTOMOTIVE POWER RELAYS (CONT.)

Mfg. Part No.	Contacts	Coil Resist. (Ω)	Options	Stock No.	Price Each	
					1-24	25-49
G8JN-1C7T-MF-R-DC12	SPDT	74	Molded Plastic Bracket, 680Ω Resistor	89C6838	7.62	7.14
G8JN-1C7T-R-DC12	SPDT	74	680Ω Resistor	89C6839	5.17	4.84

20-40A AUTOMOTIVE RELAYS



Panasonic Electric Works Corporation of America



CB 40A PC Board



CB 40A Plug-In



CM 20A Plug-In

- Low contact resistance (20A)
- Low temperature rise (20A low-profile, 40A high power)
- High shock resistance (40A high power)
- ISO type terminals

20A CM series relays have a 35A switching capacity. 40A CB series and 20A CV series relays has a 20A switching capacity. CB series dimensions: 25H x 22W x 26.5Lmm, CM series dimensions: 22H x 15W x 20Lmm, CV series dimension: 15.7H x 15W x 22.5Lmm.

SEALED

Mfg. Part No.	Contacts	Coil Voltage (VDC)	Carry Current (A)	Mounting Type	Coil Resist. (Ω)	Stock No.	1-24
● CB1A-M-12V	SPST-NO	12	40	Bracket	103	93B1573	4.91
● CB1A-P-12V	SPST-NO	12	40	PC Board	103	50B849	4.60
● CB1A-12V	SPST-NO	12	40	Plug In	103	52F9227	4.74
● CB1AF-P-12V	SPST-NO	12	40	PC Board	103	50F4036	4.52
● CB1-12V	SPDT	12	40	Plug In	103	64K3088	4.99
● CB1-M-12V	SPDT	12	40	Bracket	103	91B7680	5.18
● CB1-P-24V	SPDT	24	40	PC Board	320	07C0827	5.29
● CM1-12V	SPDT	12	20	Plug In	96	52F9218	3.99
● CM1A-12V	SPST	12	20	Plug In	96	10C5494	3.69
● CM1-P-12V	SPDT	12	20	PC Board	96	50B850	3.88
● CM1A-P-12V	SPST	12	20	PC Board	96	10C5491	3.80

FLUX-RESISTANT

● CB1AHF-12V	SPST-NO	12	40	Plug In	80	21M9059	6.15
● CB1AHF-24V	SPST-NO	24	40	Plug In	320	30M2984	6.13
● CB1F-P-12V	SPDT	12	40	PC Board	103	50F4024	4.93
● CB1F-R-12V*	SPDT	12	40	Plug In	103	50F4025	4.85
● CB1F-M-24V	SPDT	24	40	Bracket	320	50B8978	5.41
● CB1F-P-24V	SPDT	24	40	PC Board	320	94B6706	5.10
● CB1F-24V	SPDT	24	40	Plug In	320	98F7703	5.27

LOW-PROFILE, SEALED

● ACV33012	SPST	12	20	PC Board	180	39M3505	4.02
● ACV13012	SPDT	12	20	PC Board	180	39M3504	4.13
● ACV32012	SPST	12	20	Plug In	180	08J0790	4.02
● ACV12012	SPDT	12	20	Plug In	180	39M3503	4.13

HEAT RESISTANT

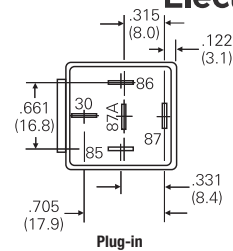
● CB1A-T-M-12V	SPST-NO	12	40	Bracket	103	08N1773	7.40
● CB1A-T-P-12V	SPST-NO	12	40	PC Board	103	26H6273	6.21
● CB1AH-T-P-12V**	SPST-NO	12	40	PC Board	103	08N1775	8.06
● CB1A-T-12V	SPST-NO	12	40	Plug In	103	08N1774	7.21
● CB1AH-T-12V**	SPST-NO	12	40	Plug In	80	08N1776	8.06
● CB1-T-M-12V	SPDT	12	40	Bracket	103	08N1771	7.15
● CB1-T-P-12V	SPDT	12	40	PC Board	103	08N1772	6.40
● CB1-T-12V	SPDT	12	40	Plug In	103	10C5412	7.40

* With resistor inside ** High contact capacity (88570)

P&B 40A AUTOMOTIVE RELAYS



Plug-in



Plug-in

Continuous contact rating of 40A @ 23°C. Shrouded and weatherproof dust covers also available; go online or call. PC BOARD

Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Contacts	Features	Stock No.	Price Each
● 1432872-1	6	22.5	SPDT	Epoxy Sealed	21M4887	3.03
● 1432866-1	12	90	SPST-NO	Dust Cover	21M4807	2.50
● 1432867-1	12	90	SPST-NO	Epoxy Sealed	21M4844	2.69
● 1432868-1	12	90	SPDT	Dust Cover	21M4882	2.59
● 1432869-1	12	90	SPDT	Epoxy Sealed	21M4883	3.03
● 1432870-1	24	360	SPDT	...	21M4885	3.02
● 1432871-1	24	360	SPDT	Epoxy Sealed	21M4886	3.12

PLUG-IN

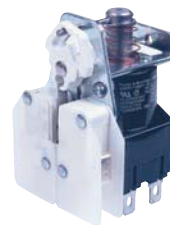
● 1432873-1	6	22.5	SPDT	With Metal Bracket	21M4888	2.74
● 1432782-1	12	90	SPST-NO	...	21M4719	2.19
● 1432790-1*	12	90	SPDT	With Diode	55K3124	2.47
● 1432791-1	12	90	SPDT	With Metal Bracket	52K6431	2.93
● 1432874-1	24	317.5	SPDT	Epoxy Sealed, With Resistor	21M4902	2.89
● 1432875-1	24	317.5	SPDT	Epoxy Sealed, With Resistor and Metal Bracket	21M4904	2.89
● 1432876-1	24	360	SPDT	With Diode and Metal Bracket	21M4905	2.80
● 1432795-1*	24	360	SPDT	With Diode	44K0222	3.10
● 1432797-1	24	360	SPDT	With Metal Bracket	17M3431	3.23

*Diode (cathode/banded side to pin #86) (3273)

P&B 15A-20A BI-STABLE, IMPULSE RELAYS



Bi-stable impulse relays can effect power savings in applications where load is on for long time periods. Meet UL 508 energy management requirements. 9VA coil power. Class B coil insulation. Operate on rated voltage pulses as short as 150ms. Mechanical life expectancy: 100,000 cycles. Temperature range: -40°C to +60°C. Applications include industrial lighting control, motor starting and reversing of conveyor systems, or in air conditioning systems. Also available with octal plug-in base; go online or call Newark.



S89R



S90R

15A

Mfg. Part No.	Coil Voltage	Coil Resist. (Ω)	Terminal Style	Stock No.	Price Each
● S89R5AAC1-24	24VAC	8.7	0.187" (4.75mm) Quick-Connect	28K0288	31.59
● S89R5AAC1-120	120VAC	260	0.187" Quick-Connect	17M2963	29.83
● S89R11DPP1-12	12VDC	22.5	Octal-Style Base	08H5072	84.62
● S89R11DAC1-12	12VDC	22.5	0.187" (4.75mm) Quick-Connect	17M2962	33.30
● S89R11DAC1-24	24VDC	92	0.187" (4.75mm) Quick-Connect	93F3101	33.29
● S89R11AAC1-24	24VAC	8.7	0.187" (4.75mm) Quick-Connect	77B3060	34.95
● S89R11APP1-24	24VAC	8.7	Octal-Style Base	98F2295	86.31
● S89R11AAC1-120	120VAC	260	0.187" (4.75mm) Quick-Connect	17M2959	34.95
● S89R11APP1-120	120VAC	260	Octal-Style Base	17M2961	43.66

20A

● S90R11ABD1-24	24VAC	8.7	0.250" (6.35mm) Quick-Connect	44F2174	43.66
● S90R11ABD1-120	120VAC	260	0.250" (6.35mm) Quick-Connect	18M9351	44.41



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IMPULSE RELAYS • HIGH-FREQUENCY RELAYS • LOW-SIGNAL RELAYS

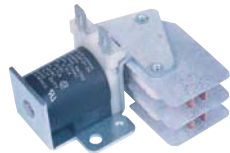
P&B 20A POWER RELAYS



Tyco Electronics



S86R



S87R

Relays have .250" quick-connect/solder coil terminal located perpendicular to .250" quick connect terminals. Contacts rated at 20A @ 277VAC, with life expectancy of 50,000 operations. Coil breakdown voltage: 1560Vrms, 60Hz. S87R series relays are designed to operate with plunger in vertical or horizontal position, but not in upside-down position. Temperature range: -45°C to +65°C. S87R series width: 1.62" (41.1). S86R series width: 1.92" (48.77). UL recognized, CSA certified.

S86R

Mfg. Part No.	Contacts	Coil Voltage (VDC)	Coil Resist. (Ω)	Coil Power	Stock No.	Price Each	
						1-24	25-49
● S86R5A1B1D1-120	SPDT	120VAC	800	4VA	17M2955	24.03	
● S86R11A1B1D1-120	DPDT	120VAC	800	4VA	44F2181	35.62	

S87R

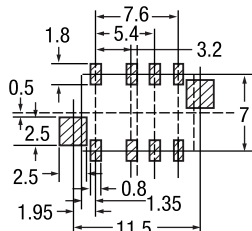
Mfg. Part No.	Contacts	Coil Voltage (VDC)	Coil Resist. (Ω)	Coil Power	Stock No.	Price Each	
						1-24	25-49
● S87R5D2B1D1-12	SPDT	12VDC	50	2.9W	20F771	21.11	
● S87R5D2B1D1-24	SPDT	24VDC	200	2.9W	20F772	20.15	
● S87R5A2B1D1-120	SPDT	120VAC	800	4VA	17M2958	24.80	
● S87R5A2B1D1-240	SPDT	240VAC	3200	4VA	20F767	29.50	
● S87R11A2B1D1-24	DPDT	24VAC	32	4VA	17M2957	36.28	
● S87R11D2B1D1110	DPDT	110VDC	3470	4.5W	39C7342	38.28	
● S87R11A2B1D1-120	DPDT	120VAC	800	4VA	17M2956	33.50	
● S87R11A2B1D1-240	DPDT	240VAC	3200	4VA	20F770	33.08	

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1A COMPACT HIGH-FREQUENCY RELAYS



OMRON ELECTRONIC COMPONENTS



- 1A, 30VDC discrete load; 1W @ 1GHz high-frequency load @ V.S.W.R. < 1.2
- Gullwing surface-mount terminals
- Low power consumption: 100mW

- SPDT or DPDT contacts
- Non-latching and single-coil latching available
- Ambient temperature range: -40° to +70°C

Contacts are silver alloy on gold base. Contact resistance: 100mΩ max. Must operate and release times are 3 ms max. Max. switching voltage: 60VDC, 125VAC. Max. switching current: 1A. Max. switching capacity: 37.5VA (AC); 30W (DC). Must operate/release voltages are 80%/10% of rated voltage, respectively. Units shown are non-latching. Single-coil latching units also available; go online or call.

Mfg. Part No.	Contacts	Coil Voltage (VDC)	Coil Resist. (Ω)	Termination	Stock No.	Price Each	
						1-24	25-49
● G6K-2F DC3	DPDT	3	91	SMT Gullwing	89C6442	3.63	3.27
● G6K-2F-Y DC3*	DPDT	3	91	SMT Gullwing	89C6451	4.38	4.10
● G6K-2F-TR-DC5	DPDT	5	237	SMT Gullwing	29C2547	1.74	1.67
● G6K2GYDC4.5*	DPDT	4.5	194	SMT Inside L	53H7271	3.63	3.27
● G6K-2P DC45	DPDT	4.5	194	Thru Hole	17M6693	3.63	3.27
● G6K2PYDC45*	DPDT	4.5	194	Thru Hole	53H7273	3.63	3.27
● G6K-2F-RF-DC3	DPDT	3	91	SMT Gullwing	73C8950	26.06	23.46
● G6K-2F-RF-DC5	DPDT	5	237	SMT Gullwing	73C8952	26.06	23.46
● G6K-2F-RF-DC12	DPDT	12	1315	SMT Gullwing	73C8948	26.06	23.46

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HIGH FREQUENCY SMD RELAYS



Panasonic

Panasonic Electric Works Corporation of America



- Excellent high frequency characteristics
- V.S.W.R.: Max. 1.25
- Insertion loss: Max. 0.5dB
- Isolation: Min. 35dB (between open contacts); Min. 30dB (between contact sets)
- Max. switching current = 0.3A DC
- Max. switching voltage = 30VDC
- Surface mount terminals
- Small size: 14.00(L) x 9.00(W) x 8.20(H) mm

DPDT contacts rated: 1W at 5GHz, 50 ohms. Contact Material: gold alloy. Relays are packaged in cartons. To order tape & reel packaging picked from the 1-2-3 pin side, add suffix "X" to mfg. part no. To order tape & reel packaging picked from the 6-7-8 pin side, add suffix "Z" to mfg. part no.

SINGLE SIDE STABLE

Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Stock No.	Price Each			
				1-24	25-49	50-99	100-499
● ARJ20A4H	4.5	101.2	64C9879	173.17	158.41	142.30	120.15
● ARJ20A12	12	720	02E9085	161.85	148.05	132.99	112.29

2 COIL LATCHING

Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Stock No.	Price Each			
				1-24	25-49	50-99	100-499
● ARJ22A4H	4.5	135	72J6231	161.85	148.05	132.99	112.29
● ARJ22A12	12	960	72J8160	161.85	148.05	132.99	112.29

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SUBMINIATURE 1A TELECOM RELAYS



NEC



Fig. 1

Just Added



Fig. 2

Specifications;

- Contacts: DPDT
- Switching power: 30W/ 62.5VA
- Switching voltage: 220VDC/ 250VAC
- Switching current: 1A
- Carrying current: 2A
- Initial contact resistance: 75mΩ max
- Breakdown voltage: 1000VAC
- Contact material: Silver alloy with gold overlay
- Operating Power: 200mW
- Ambient temperature: -40°C to 85°C
- Weight approximately: 1.5g

Features:

- Compact and lightweight
- Low power consumption
- Low magnetic interference
- PCB and surface mount

Mfg. Part No.	Fig.	Contacts	Coil Voltage (VDC)	Coil Resist.	Termination	Stock No.	Price Each	
							1-99	100-499
● EA2-5NU	1	DPDT-2C/O	5	178	Thru Hole	25M9065	2.38	
● EA2-12NU	1	DPDT-2C/O	12	1028	Thru Hole	25M9064	2.38	
● EA2-24NU	1	DPDT-2C/O	24	2880	Thru Hole	31M4899	2.86	
● EB2-5NU	2	DPDT-2C/O	5	178	SMT Gullwing	25M9067	2.38	
● EB2-12NU	2	DPDT-2C/O	12	1028	SMT Gullwing	25M9066	2.38	

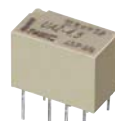
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SUBMINIATURE 1A SIGNAL RELAYS

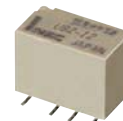
Just Added



NEC



UA2



UB2



UD2

Features:

- Compact and light weight
- Low power consumption
- Tube or taped packaging
- Super high density mounting
- PCB and surface mount
- Meets Bell-Core, FCC standards
- Meets IEC950/UL1950/EN60950 insulation distance

Specifications;

- Contact rating: 1A at 110VDC/125VAC
- Switching power: 30W / 37.5VA
- Max. carry current: 1A
- Initial Contact resistance max: 100mΩ
- Coil power: 140mW (230mW for 24VDC)
- Operating temperature: -40°C to +85°C

Mfg. Part No.	Contacts	Coil Voltage (VDC)	Coil Resist.	Termination	Stock No.	Price Each	
						1-99	100-499
● UA2-5NU	DPDT	5	178	Thru Hole	26M4648	2.51	
● UA2-12NU	DPDT	12	1028	Thru Hole	17M9862	2.51	
● UA2-24NU	DPDT	24	2504	Thru Hole	34M8919	2.69	
● UB2-5NU	DPDT	5	178	SMT Gullwing	24M8856	2.51	
● UB2-12NU	DPDT	12	1028	SMT Gullwing	24M8855	2.51	
● UD2-5NU	DPDT-2C/O	5	178	SMT Gullwing	24M8915	4.82	
● UD2-12NU	DPDT-2C/O	12	1028	SMT Gullwing	24M8914	4.82	

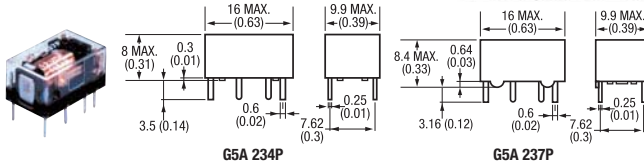
(142242)



LOW-SIGNAL RELAYS

1A LOW SIGNAL RELAYS

Just Added



- Contact rating: 0.5A, 60VAC
- Coil rating: 1.5 to 48VDC
- Max. operating voltage: 125VAC, 125VDC
- Max. switching capacity: 37.50VA, 33W
- Contact resistance: 50mΩ Max.
- Ambient temperature: -40°C to +70°C

Dimensions: 8.40H x 9.90W x 16L mm (0.33H x 0.38W x 0.63L"), unique moving magnet armature reduces relay size, magnetic interference, and contact bounce time. Low nominal power consumption (200mW), and automatic flow or dip soldering possible.

NON-LATCHING—SEALED

Mfg. Part No.	Contacts	Coil Voltage (VDC)	Coil Resist. (Ω)	Coil Current (mA)	Stock No.	Price Each	
						1-24	25-49
● G5A-234P-DC12	DPDT	12	720	16.7	35K4528	5.37	4.84
● G5A-234P-DC24	DPDT	24	2880	8.3	51B752	5.37	4.84

NON-LATCHING—SEMI-SEALED

● G5A-237P-DC5	DPDT	5	125	40.0	34K3623	4.96	4.46
● G5A-237P-DC12	DPDT	12	720	16.7	36K3233	4.96	4.46
● G5A-237P-DC24	DPDT	24	2880	8.3	35K4529	5.09	4.59

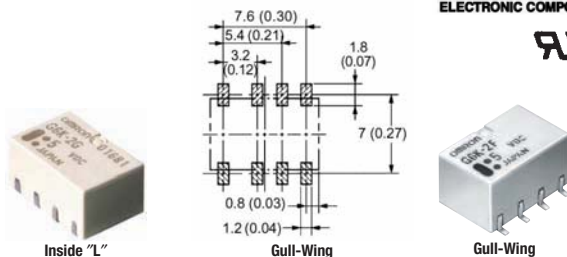
LATCHING—SEALED

● G5AK-234P-DC5	DPDT	5	125	40.0	89C5872	8.63	6.60
● G5AK-234P-DC24	DPDT	24	2880	8.3	89C5870	8.80	6.74

(75462)

1A LOW-SIGNAL PC BOARD RELAYS

Just Added



- For worldwide communications, computer peripherals, office automation equipment
- Offers excellent board space savings
- Available in PC board thru-hole, SMT gull-wing and SMT inside-L terminals
- Complies with UL1950 basic insulation at 125V

G6K series terminal design is based on G6S series relays. DPDT contacts. Power consumption: 100mW. Max. switching capacity: 37.5VA, 30W. Rated load: 0.3A at 125VAC, 1A at 30VDC. Contact material: Ag (Au clad). Nonlatching 3.2mm coil contact terminal spacing. Outside dimensions in inches (mm): .390(10.0)L x .260(6.5)W x .200(5.2)H. UL recognized, CSA certified. Coil voltages of 3VDC and 9VDC are also available; go online or call.

2.5MM COIL-CONTACT TERMINAL SPACING, STANDARD, NON-LATCHING

Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Terminals	Tape Cut		Tape and Reel	
				Stock No.	Price Each	Stock No.	Reel Qty.	Price 1-24
● G6K-2F-DC5	5	237	SMT Gullwing	20C8437	4.35	...	...
● G6K-2F-DC12	12	1315	SMT Gullwing	34K3627	4.38	...	...
● G6K-2F-DC24	24	5220	SMT Gullwing	36K7467	4.33	...	...
● G6K-2G-DC5	5	237	SMT Inside L	36K7468	3.34	93B5453	900 3.34
● G6K-2G-DC12	12	1315	SMT Inside L	93B9118	3.34	...	...
● G6K-2P-DC4.5	4.5	194	Thru Hole	89C6483	3.34	...	...
● G6K-2P-DC5	5	237	Thru Hole	36K1951	4.38	...	...
● G6K-2P-DC12	12	1315	Thru Hole	36K3242	4.52	...	...
● G6K-2P-DC24	24	5220	Thru Hole	36K7470	4.35	...	...

3.2MM COIL-CONTACT TERMINAL SPACING NON-LATCHING

● G6K-2F-Y-TR DC3	3	91	SMT Gullwing	...	...	89C6455	900 3.34
● G6K-2F-Y-DC4.5	4.5	194	SMT Gullwing	36K3240	4.35	...	...
● G6K-2F-Y-DC5	5	237	SMT Gullwing	26M8272	4.35	89C6457	900 3.34
● G6K-2F-Y-DC12	12	1315	SMT Gullwing	17C6939	4.35	89C6454	900 3.34
● G6K-2F-Y-DC24	24	5220	SMT Gullwing	17C6940	4.35	...	...
● G6K-2G-Y-DC5	5	237	SMT Inside L	36K7469	3.34	...	...
● G6K-2G-Y-DC12	12	1315	SMT Inside L	36K3241	4.35	...	...
● G6K-2G-Y-DC24	24	5220	SMT Inside L	17C6944	4.35	...	...
● G6K-2P-Y-DC3	3	91	Thru Hole	89C6486	3.34	...	...
● G6K-2P-Y-DC5	5	237	Thru Hole	34C3467	4.38	...	...

▶ CONTINUED ▶

1A LOW-SIGNAL PC BOARD RELAYS (CONT.)

3.2MM COIL-CONTACT TERMINAL SPACING NON-LATCHING

Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Terminals	Tape Cut		Tape and Reel	
				Stock No.	Price Each	Stock No.	Reel Qty.	Price 1-24
● G6K-2P-Y-DC12	12	1315	Thru Hole	34C3464	4.33	...	...
● G6K-2P-Y-DC24	24	5220	Thru Hole	34C3465	4.33	...	...

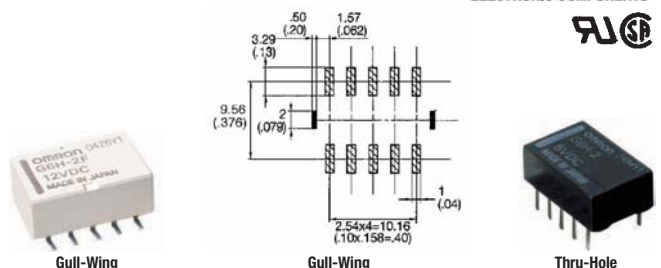
3.2MM SPACING, SINGLE COIL-LATCHING

● G6KU-2P-Y-DC5	5	237	Thru Hole	35K4536	3.34	...	...
● G6KU-2P-Y-DC12	12	1315	Thru Hole	34K3628	3.51	...	...
● G6KU-2F-Y-DC3	3	91	SMT Gullwing	89C6496	3.51	...	...
● G6KU-2F-Y-DC4.5	4.5	194	SMT Gullwing	89C6497	3.51	...	...
● G6KU-2FYDC5	5	237	SMT Gullwing	23C9039	3.51	...	...
● G6KU-2G-Y-DC5	5	237	SMT Inside L	89C6505	3.51	...	...

(61883)

1A PC BOARD RELAYS

Just Added



- Compact and low profile
- Use Omron's moving-loop design
- DPDT contact arrangement
- Maximum operating voltage: 125VAC, 110VDC
- Maximum switching power: 62.5VA, 33W
- Power consumption: 140mW
- Rated load: 0.5A at 125VAC; 1A at 30VDC
- Contact carrying and operating current: 1A

Art dimensions inches (mm): .500(14.0)L x .354(9.0)W x .197(5.0)H. Packaged as each. Available in tape and reel; add "TR" before "DC" in mfg. part no. UL recognized, CSA certified. 24V and latching versions also available; go online or call Newark.

DPDT PC BOARD MOUNT NON-LATCHING

Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Tape Cut		Tape and Reel	
			Stock No.	Price Each	Stock No.	Reel Qty.	Price 1-24
● G6H-2-DC3	3	64.3	34K3626	4.67	...	...
● G6H-2-DC5	5	178	52F3901	4.64	...	...
● G6H-2-100-DC5	5	178	89C6393	2.28	...	...
● G6H-2-DC9	9	579	89C6384	4.64	...	...
● G6H-2-DC12	12	1028	35K3193	4.64	...	...
● G6H-2-100-DC12	12	1028	89C6389	2.28	...	...
● G6H-2-DC24	24	2880	36K7463	5.83	...	...

DPDT SURFACE-MOUNT NON-LATCHING

● G6H-2F-DC5	5	178	35K3194	6.80	89C6401	1000 3.25
● G6H-2F-DC12	12	1028	36K7464	6.80	89C6398	1000 3.25
● G6H-2F-DC24	24	2880	17C6934	6.80	...	...

DPDT PC BOARD MOUNT DOUBLE-WINDING LATCHING

● G6HK-2-DC3	3	45	52F3906	5.62	...	...
● G6HK-2-DC5	5	125	35K3195	5.62	...	...
● G6HK-2-DC9	9	405	33C9130	5.62	...	...
● G6HK-2-DC12	12	720	36K7465	5.62	...	...
● G6HK-2-DC24	24	1920	36K7466	6.05

DPDT PC BOARD MOUNT SINGLE-WINDING LATCHING

● G6HU-2-DC5	5	250	93B3597	7.08
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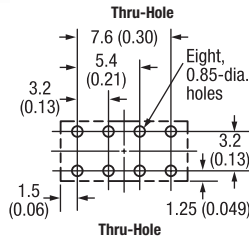
LOW-SIGNAL RELAYS

LOW-SIGNAL 1A PC BOARD RELAYS



- Single-winding latching models to save energy

Dielectric strength of 1500VAC and an impulse withstand voltage of 2500V for 2 x 10µs (conforms to North American Telcordia specification (formerly Bellcore)). Conforms to FCC Part 68 (i.e., impulse withstand voltage of 1500V for 10 x 160µs between coil and contacts and between contacts of the same polarity). Dimensions: 5.7W x 10.6L x 9H mm. Conforms to UL60950 (File No. E41515)/CSA C22.2 No. 60950 (File No. LR31928). Version shown are non-latching, single coil latching models also available: go online or call Newark. Add "TR" after "Y" in mfg. part no. to order Tape & Reel.

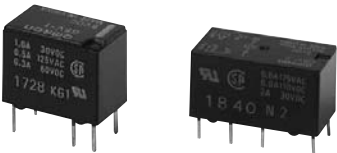


Mfg. Part No.	Terminals	Coil Voltage (VDC)	Coil Resist. (Ω)	Power (mW)	Stock No.	Price Each		
						1-24	25-49	50-99
● G6J-2FL-Y-DC5	SMT Long	5	173.1	140	70J9826	4.35	3.92	
● G6J-2FS-Y-DC5	SMT Short	5	173.1	140	70J9829	4.35	3.92	
● G6J-2P-Y-DC5	Thru-Hole	5	173.1	140	70J9833	4.35	3.92	
● G6J-2FS-Y-DC12	SMT Short	12	976.8	140	70J9827	4.35	3.92	
● G6J-2P-Y-DC12	Thru-Hole	12	976.8	140	70J9830	4.35	3.92	
● G6J-2P-Y-DC24	Thru-Hole	24	2600.5	230	70J9831	4.35	3.92	
● G6JU-2P-Y-DC5	Thru-Hole	5	245.5	100	70J9845	4.46	4.02	
● G6JU-2FL-Y-DC12	SMT Long	12	1329.2	100	70J9834	4.46	4.02	
● G6JU-2P-Y-DC12	Thru-Hole	12	1329.2	100	70J9842	4.46	4.02	
● G6JU-2FL-Y-DC24	SMT Long	24	2620	230	70J9835	5.09	4.59	

(68177)

2A PC BOARD RELAYS

Just Added



G5V-1

G5V-2

Suitable for handling low signals in computer peripherals, telecommunications, and security equipment. Maximum operating voltage: 125VAC, 125VDC. Maximum switching capacity: 62.5VA, 60W. Fully sealed construction. Bifurcated crossbar contacts. Standard models have a power consumption rating of 500mW, carry current: 2A. High sensitivity models have a power consumption rating of 150mW, carry current 1A, except for the G5V-1 series which have a carry current of 2A. Outside dimensions in inches (mm): G5V-1: .490(12.5)L x .300(7.50)W x .390(10.0)H, G5V-2: .807(20.5)L x .398(10.1)W x .453(11.5)H.

ULTRA MINIATURE PACKAGE HIGH-SENSITIVITY

Mfg. Part No.	Contacts	Carry Current (A)	Coil Voltage (VDC)	Coil Resist. (Ω)	Stock No.	Price Each		
						1-24	25-49	50-99
● G5V-1-DC3	SPDT	2	3	60	89C6068	2.62	2.36	2.10
● G5V-1-DC5	SPDT	2	5	166.7	36K7453	2.62	2.36	2.10
● G5V-1-DC6	SPDT	2	6	240	96B6185	1.80	1.62	1.45
● G5V-1-DC9	SPDT	2	9	540	89C6069	2.62	2.36	2.10
● G5V-1-DC12	SPDT	2	12	960	36K7451	2.62	2.36	2.10
● G5V-1-2 DC12*	SPDT	2	12	960	89C6070	1.99	1.79	1.59
● G5V-1-DC24	SPDT	2	24	3840	36K7452	2.62	2.36	2.10

STANDARD

● G5V-2-DC3	DPDT	2	3	18	89C6076	3.22	2.91	2.58
● G5V-2-DC5	DPDT	2	5	50	67K9351	3.22	2.91	2.58
● G5V-2-DC12	DPDT	2	12	288	36K1941	3.22	2.91	2.58
● G5V-2-DC24	DPDT	2	24	1152	36K1942	3.22	2.91	2.58
● G5V-2-DC48	DPDT	2	48	4000	67K9350	3.81	3.44	3.06

HIGH-SENSITIVITY

● G5V-2-H-DC5	DPDT	2	5	70	36K7454	3.46	3.12	2.77
● G5V-2-H-DC12	DPDT	2	12	400	36K3237	2.39	2.25	2.15
● G5V-2-H-DC24	DPDT	2	24	1600	36K1943	3.46	3.12	2.77

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2A PC BOARD RELAYS (CONT.)

ULTRA HIGH-SENSITIVITY

Mfg. Part No.	Contacts	Carry Current (A)	Coil Voltage (VDC)	Coil Resist. (Ω)	Stock No.	Price Each		
						1-24	25-49	50-99
● G5V-2-H1 DC5	DPDT	2	5	166.7	35K4531	2.45	2.20	1.96
● G5V-2-H1 DC12	DPDT	2	12	960	67K9352	2.45	2.20	1.96
● G5V-2-H1-DC48	DPDT	2	48	6400	92H2730	2.68	2.41	2.15

* Special pickup (3731)

2A LOW-SIGNAL RELAYS

Just Added



G6A series are fully sealed PCB relays. 1500V impulse withstand voltage. Dielectric strength: 1000VAC. Maximum switching capacity under resistive load: 125VA, 60W. Maximum operating current: 2A. Maximum operating voltage: 250VAC, 220VDC. Contact material: silver/lead. Outside dimension in inches (mm): .800(20.2)L x .400(10.1)W x .330(8.4). UL recognized, CSA certified.

NON-LATCHING

Mfg. Part No.	Contacts	Coil Voltage (VDC)	Coil Resist. (Ω)	Coil Power (mW)	Stock No.	Price Each		
						1-24	25-49	50-99
● G6A-274P-ST-US-DC3	DPDT	3	45	200	72C4467	4.53	4.27	
● G6A-234P-ST15-US-DC5	DPDT	5	62.5	150	93B6497	4.76	4.48	
● G6A-274P-ST40-US-DC5	DPDT	5	62.5	400	89C6130	4.73	4.44	
● G6A-234P-ST-US-DC5	DPDT	5	125	200	52F3888	4.31	4.04	
● G6A-234P-ST-US-DC9	DPDT	9	405	200	52F3889	4.48	4.22	
● G6A-274P-ST40-US-DC9	DPDT	9	203	400	89C6132	3.90	3.67	
● G6A-234P-ST40-US-DC12	DPDT	12	360	400	89C6109	3.74	3.50	
● G6A-274P-ST40-US-DC12	DPDT	12	360	400	89C6127	3.90	3.67	
● G6A-234P-ST-US-DC12	DPDT	12	720	200	52F3890	3.67	3.43	
● G6A274P-ST40-US-DC24	DPDT	24	1440	400	01C4561	3.90	3.67	
● G6A-234P-ST-US-DC24	DPDT	24	2880	200	36K1944	3.67	3.44	
● G6A-274P-ST-US-DC24	DPDT	24	2880	200	52F3895	4.31	4.04	
● G6A274P-ST-US-DC48	DPDT	48	9750	200	07C8663	4.67	4.40	
● G6A-274P-ST40-US-DC48	DPDT	48	5760	400	89C6129	4.56	4.26	
● G6A-474P-ST40-US-DC5	4PDT	5	62.5	400	89C6157	11.08	10.39	
● G6A-474P-ST20-US-DC5	4PDT	5	62.5	200	89C6153	15.80	14.81	
● G6A-434P-ST-US-DC5	4PDT	5	69	360	85C0901	11.90	11.16	
● G6A-474P-ST-US-DC5	4PDT	5	69	360	93B9360	11.81	10.64	
● G6A-474P-ST40-US-DC12	4PDT	12	360	400	89C6154	11.20	10.50	
● G6A-474P-ST20-US-DC12	4PDT	12	360	200	89C6150	16.11	15.11	
● G6A-434P-ST-US-DC12	4PDT	12	400	360	88M3296	11.81	10.64	
● G6A-474P-ST-US-DC12	4PDT	12	400	360	52F3897	7.68	7.23	
● G6A-474P-ST20-US-DC24	4PDT	24	1440	200	89C6151	16.28	15.26	
● G6A-474P-ST40-US-DC24	4PDT	24	1440	400	89C6155	11.20	10.50	
● G6A-434P-ST-US-DC24	4PDT	24	1600	360	36K7457	9.33	8.74	

DUAL COIL

● G6AK-234P-ST-US-DC5	DPDT	5	139	180	36K7458	6.85	6.17	
● G6AK274P-ST-USDC5	DPDT	5	250	180	31C0971	5.68	5.35	
● G6AK-234P-ST-US-DC12	DPDT	12	800	180	91B0510	6.85	6.17	
● G6AK-274P-ST-US-DC12	DPDT	12	1440	180	52F3900	6.85	6.17	
● G6AK-234P-ST-US-DC24	DPDT	24	3200	180	16C1810	6.85	6.17	
● G6AK-274P-ST-US-DC24	DPDT	24	5760	180	18C4127	6.85	6.17	
● G6AK-474P-ST40-US-DC5	4PDT	5	69	360	89C6199	9.75	9.12	

(3729)

Expert technical support

(148838)

Chat online to our team of engineers, or connect to them through your representative.

LOW-SIGNAL RELAYS

2A LOW-SIGNAL RELAYS



RoHS Compliant Available
Just Added



- High dielectric withstand voltage of 2000VAC between coil and contacts (standard type) non-latching
- Contact form: DPDT
- Meet FCC part 68 and Telecordia 2.5 kV surge withstand requirements

Outside dimensions in inches (mm): .583(14.8)L x .287(7.3)W x .362(9.2). UL recognized, CSA certified. Art dimensions: inches (mm). Dual-coil latching models are also available; go online or call.

NON-LATCHING

Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Terminals	Tape Cut		Tape and Reel	
				Stock No.	Price Each	Stock No.	Price Each
● G6S-2F-TR DC3	3	64.3	Gullwing	...	...	89C6535	400
● G6S-2F-DC5	5	178	Gullwing	16F3652	5.21	...	...
● G6S-2F-DC12	12	1028	Gullwing	16F3650	5.16	...	...
● G6S-2F-DC24	24	2880	Gullwing	36K3245	5.78	89C6534	400
● G6S-2G DC5	5	178	Inside "L"	36K3246	4.27	...	...
● G6S-2G DC12	12	1028	Inside "L"	35K3197	4.37	...	...
● G6S-2-DC5	5	178	Thru-Hole	83F5397	6.80	...	...
● G6S-2-DC12	12	1028	Thru-Hole	17M6694	3.99	...	...
● G6S-2-DC24	24	2880	Thru-Hole	36K1954	5.72	...	...
● G6S-2-Y DC24**	24	2880	Thru-Hole	89C6527	2.89

SINGLE-COIL LATCHING

● G6SU-2 DC3	3	90	Thru-Hole	34K3629	2.89
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DUAL-COIL LATCHING

● G6SK-2F DC5	5	125	Gullwing	16F3657	2.98
● G6SK-2F DC12	12	720	Gullwing	16F3656	2.98
● G6SK-2F-DC24	24	1920	Gullwing	52F3920	3.35	...	...
● G6SK-2 DC5	5	125	Thru-Hole	89C6579	2.92	...	...
● G6SK-2 DC12	12	720	Thru-Hole	89C6575	2.92	...	...

(3762)

3A SUBMINIATURE LOW-SIGNAL RELAYS

Just Added



- SPDT contact arrangement
- Sealed construction
- High sensitivity relays with pick-up coil power of 98mW
- Unique moving loop armature reduces relay size, magnetic interference, and contact bounce time
- Packaged for automatic insertion
- Meets Belcore 2.5kV surge withstand requirement

Non-latching units feature bifurcated crossbar contacts for high reliability. Outside dimensions in inches (mm): .630(16.0)L x .390(9.91)W x .330(8.38)H. "L" in mfg. part no. indicates low sensitivity. UL recognized, CSA certified.

NON-LATCHING RELAYS

Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Coil Resist. (Ω)	Stock No.	Price Each		
					1-24	25-49	50-99
● G6E-134P-ST-US-DC3	3	45	66.7	89C6352	4.70	4.23	3.76
● G6E-134PL-ST-US-DC5	5	63	79.4	89C6357	4.69	4.39	4.20
● G6E-134P-ST-US-DC5	5	125	40.0	52F3884	4.35	3.59	3.30
● G6E-134P-ST-US-DC9	9	405	22.2	12C1469	6.74	5.56	5.11
● G6E-134PL-ST-US-DC12	12	360	33.3	36K1950	4.69	4.39	4.20
● G6E-134P-ST-US-DC12	12	720	16.7	36K1949	4.70	4.23	3.76
● G6E-134PL-ST-US-DC24	24	1440	16.7	89C6356	4.69	4.39	4.20
● G6E-134P-ST-US-DC24	24	2880	8.3	52F3886	4.70	4.23	3.76

DUAL COIL LATCHING STANDARD RELAYS

● G6EK-134P-ST-US-DC5	5	125	40.0	27C6993	6.08	5.48	4.87
● G6EK-134P-ST-US-DC12	12	720	16.7	89C6361	6.08	5.48	4.87
● G6EK-134P-ST-US-DC24	24	2880	8.3	89C6362	6.31	5.68	5.05

(3757)

1A LOW-SIGNAL RELAYS



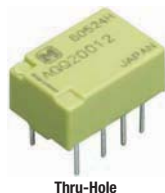
Just Added



Panasonic Electric Works Corporation of America



- Flat body signal relays allow mounting with a high-speed chip mounter
- DPDT contact arrangement
- Outstanding vibration and shock resistance



Thru-Hole



SMT Gullwing

AGQ series relays switch 1A at 30VDC, and feature 1,500V surge withstand between open contacts (FCC Part 68) and 2,500V between contacts and coil. Operating temperature: -40°C to +85°C. Dimensions: .417(L) x .283(W) x .205(H) ", 10.6(L) x 7.2(W) x 5.2(H) mm.

CONTINUED

1A LOW-SIGNAL RELAYS (CONT.)

SINGLE SIDE STABLE TYPE RELAYS

Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Coil Current (mA) (±10%)	Termination	Stock No.	Price Each		
						1-24	25-49	50-99
● AGQ200A03	3	64.2	46.7	Thru Hole	10C3334	3.83	3.53	3.14
● AGQ2004H	4.5	145	31	Thru Hole	93B0517	3.68	3.39	3.01
● AGQ20012	12	1028	11.7	Thru Hole	93B0447	3.68	3.39	3.01
● AGQ20024	24	2504	9.6	Thru Hole	93B0512	4.34	3.99	3.55
● AGQ200A4H	4.5	145	31	SMT Inside L	93B0530	3.61	3.32	2.95
● AGQ200A12	12	1028	11.7	SMT Inside L	93B0521	3.61	3.32	2.95
● AGQ200A24	24	2504	9.6	SMT Inside L	93B0525	4.24	3.90	3.46

HIGH SENSITIVITY SINGLE SIDE STABLE TYPE RELAYS

● AGQ2604H	4.5	202.5	22.2	Thru Hole	09R2876	4.20	3.99	3.85
● AGQ26012	12	1440	8.3	Thru Hole	09R2874	4.20	3.99	3.85
● AGQ26024	24	4800	5	Thru Hole	09R2875	4.92	4.68	4.51
● AGQ260A4H	4.5	202.5	22.2	SMT Gullwing	09R2873	4.34	4.13	3.98
● AGQ260A12	12	1440	8.3	SMT Gullwing	09R2871	4.34	4.13	3.98
● AGQ260A24	24	4800	5	SMT Gullwing	09R2872	5.04	4.79	4.62

(47078)

ULTRA-SMALL SIGNAL RELAYS

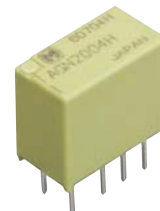


Panasonic Electric Works Corporation of America

Just Added



AGN series ultrasmall PC board and surface mount relays feature ultra-slim design for high-density mounting. Withstand 2500V (Belcore) surge resistance. Twin crossbar contacts provide high contact reliability. DPDT. Maximum switching power: 30W, 37.5VA. Dimensions in inches (mm): 0.354(9.00)H x 0.417(10.60)W x 0.224(5.70)D. Ambient temperature: -40°C to +85°C. Vibration/shock resistance. Single-side stable. Tube packing standard. Tape & reel available; add "Z" to end of mfg. part no. UL recognized, CSA certified. Surface mount and 1-coil latching version also available; go online or call.



Thru-Hole



SMT Gull Wing

SINGLE SIDE STABLE TYPE RELAYS

Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Power (mW)	Terminals	Stock No.	Price Each		
						1-24	25-49	50-99
● AGN2004H	4.5	145	140	Thru-Hole	83F7122	3.89	3.55	3.17
● AGN20012	12	1028	140	Thru-Hole	83F7123	3.89	3.55	3.17
● AGN20024	24	2504	230	Thru-Hole	83F7124	4.58	4.18	3.74
● AGN200A4H	4.5	145	140	SMT Gull Wing	83F7125	4.05	3.70	3.30
● AGN200A12	12	1028	140	SMT Gull Wing	83F7126	4.01	3.66	3.27

HIGH SENSITIVITY SINGLE SIDE STABLE TYPE RELAYS

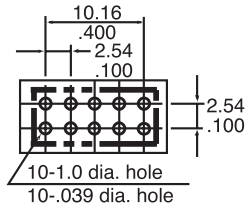
● AGN2604H	4.5	202.5	100	Thru-Hole	09R2870	4.20	3.99	3.85
● AGN26012	12	1440	100	Thru-Hole	09R2868	4.20	3.99	3.85
● AGN26024	24	4800	120	Thru-Hole	09R2869	4.92	4.68	4.51
● AGN260A12	4.5	202.5	100	SMT Gull Wing	09R2867	4.34	4.13	3.98
● AGN260A24	24	4800	120	SMT Gull Wing	09R2866	5.04	4.79	4.62

(31773)

1A SLIM POLARIZED PC BOARD RELAYS



Panasonic Electric Works Corporation of America



- Small header area for high-density mounting
- Sealed construction for automatic cleaning
- High sensitivity
- DPDT gold-clad silver contacts
- Surge voltage withstand: 1500V FCC Part 68

Maximum switching power: 30W, 62.5VAC. Dimensions: .386"(9.8mm)H x .551"(14mm)W x .220"(5.6mm)D. TN2-L1 series single-coil latching and self-clinching terminal versions also available; go online or call.

SINGLE SIDE STABLE

Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Coil Power (mW)	Stock No.	Price Each			
					1-24	25-49	50-99	100-499
● TN2-5V	5	178	140	64K3189	4.48	4.11	3.67	3.15
● TN2-12V	12	1028	140	65K1079	4.48	4.11	3.67	3.15
● TN2-24V	24	2880	200	64K3187	5.30	4.86	4.34	3.72

CONTINUED

LOW-SIGNAL RELAYS

1A SLIM POLARIZED PC BOARD RELAYS (CONT.)

2-COIL LATCHING

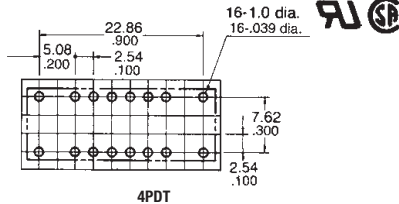
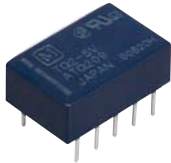
Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Coil Power (mW)	Stock No.	Price Each			
					1-24	25-49	50-99	100-499
● TN2-L2-5V	5	125	200	64K3186	5.25	4.82	4.30	3.69
● TN2-L2-12V	12	720	200	64K3184	5.48	5.03	4.49	3.85
● TN2-L2-24V	24	1920	300	64K3185	5.94	5.45	4.86	4.17

(68504)

1A LOW-PROFILE HIGH-SENSITIVITY RELAYS



Panasonic Electric Works Corporation of America



4PDT

Polarized units. Ambient temperature: -40°C to +70°C. Maximum switching power: 30W, 62.5VA. Withstand 1500V surge. Dimensions in inches (mm): DPDT: 0.280(7.1)H x 0.354(9W) x 0.551(14)L; 4PDT: 0.197(5)H x 0.354(9W) x 1.051(26.7)L. Sealed construction allows automatic dip-washing. Pre-soldered terminals provide improved solderability in automatic soldering process. UL recognized, CSA certified.

SINGLE-SIDE STABLE, DPDT

Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Power (mW)	Stock No.	Price Each		
					1-24	25-49	50-99
● TQ2-3V	3	64.3	140	73K2455	3.03	2.77	2.48
● TQ2-4.5V	4.5	144.6	140	64K3199	3.03	2.77	2.48
● TQ2-5V	5	178	140	64K3200	3.03	2.77	2.48
● TQ2-6V	6	257	140	64K3201	3.03	2.77	2.48
● TQ2-12V	12	1028	140	64K3197	3.03	2.77	2.48
● TQ2-24V	24	2880	200	64K3198	3.63	3.33	2.98

SINGLE SIDE STABLE, 4PDT

● TQ4-5V	5	89	280	67K1293	20.22	18.54	16.56
● TQ4-12V	12	514	280	64K3209	20.22	18.54	16.56
● TQ4-24V	24	45	200	64K3210	21.92	20.10	17.95

2-COIL LATCHING, DPDT

● TQ2-L2-3V	3	45	200	64K3194	3.58	3.28	2.93
● TQ2-L2-5V	5	125	200	64K3195	3.79	3.48	3.11
● TQ2-L2-9V	9	405	200	64K3196	3.58	3.28	2.93
● TQ2-L2-12V	12	720	200	64K3192	3.79	3.48	3.11
● TQ2-L2-24V	24	1920	300	64K3193	4.30	3.94	3.52

1-COIL LATCHING, DPDT

● TQ2-L-5V	5	90	100	64K3191	3.63	3.33	2.98
● TQ2-L-12V	12	1440	100	64K3190	3.42	3.14	2.80

(3641)

2A SURFACE MOUNT RELAYS



Panasonic Electric Works Corporation of America

Contacts: gold-clad silver alloy, rated: 2A @ 30VDC, 0.5A @ 125VAC nominal switching capacity (resistive); 60W, 62.5VA max. switching power resistive; 220VDC, 125VAC max. switching voltage; 2A max. switching current; 10µA, 10mVDC max. switching capability. Dimensions: .220"(5.60mm)H x .551"(14.0mm)W x .354"(9.00mm)D. Low profile height: 0.236"(6mm), includes height of pins. **SS** in mfg. part no. indicates space saving surface mount terminal type, pin length: 0.84mm. **SA** in mfg. part no. indicates standard surface mount terminal type, pin length: 1.94mm.



SINGLE SIDE STABLE

Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Coil Power (mW)	Stock No.	Price Each			
					1-24	25-49	50-99	100-499
● TQ2SA-5V	5	178	140	64K3205	3.46	3.16	2.84	2.41
● TQ2SA-12V	12	1028	140	64K3203	3.38	3.09	2.77	2.35
● TQ2SA-24V	24	2880	200	64K3204	4.13	3.77	3.38	2.87

2-COIL LATCHING

● TQ2SA-L2-5V	5	66.7	200	64K3202	4.15	3.79	3.40	2.89
● TQ2SS-L2-5V	5	178	140	64K3206	4.19	3.83	3.44	2.92

(3718)

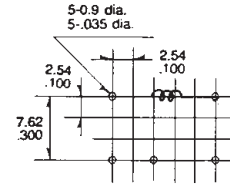
2A SENSITIVE MINIATURE PC BOARD RELAYS



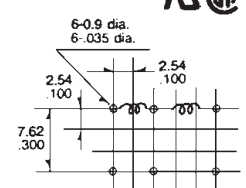
Panasonic Electric Works Corporation of America



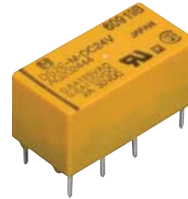
SPDT



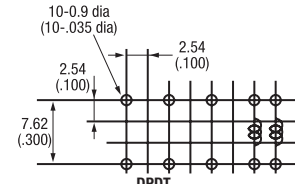
SPDT 1-Coil Latching



SPDT 2-Coil Latching



DPDT



DPDT 2-Coil Latching

- High voltage breakdown: 1500V FCC surge between contacts 1000VAC between open contacts (500VAC for DS1E-S series)
- Switching power: 60W, 1VA
- Switching voltage: 220VDC, 250VAC

Applications include telecommunication equipment, office, security equipment and measuring instrumentation. Amber seal. Ambient temperature: -40°C to +70°C. Dimension: SPDT .386"H x .590"W x .390"D, DPDT .366"H x .787"W x .390"D, 4PDT .386"H x 1.387"W x .390"D.

SINGLE SIDE STABLE

Mfg. Part No.	Contacts	Coil Voltage (VDC)	Coil Resist. (Ω)	Coil Power (mW)	Stock No.	Price Each		
						1-24	25-49	50-99
● DS1E-M-DC5V	SPDT	5	62.5	400	64K3106	5.41	4.96	4.43
● DS1E-M-DC12V	SPDT	12	360	400	64K3105	5.41	4.96	4.43
● DS1E-M-DC24V	SPDT	24	1440	400	46F5598	5.41	4.96	4.43
● DS1E-M-DC48V	DPDT	48	5760	400	66K6041	6.89	6.32	5.65
● DS2E-M-DC5V	DPDT	5	62.5	400	64K3111	3.77	3.45	3.09
● DS2E-M-DC9V	DPDT	9	203	400	64K3112	3.53	3.24	2.89
● DS2E-M-DC12V	DPDT	12	360	400	64K3109	3.77	3.45	3.09
● DS2E-M-DC24V	DPDT	24	1440	400	64K3110	3.77	3.45	3.09
● DS2E-M-DC48V	DPDT	48	5760	400	46F5627	4.72	4.33	3.87
● DS1E-S-DC5V	SPDT	5	125	200	64K3108	7.64	7.00	6.25
● DS1E-S-DC9V	SPDT	9	405	200	46F5608	7.64	7.00	6.25
● DS1E-S-DC12V	SPDT	12	720	200	64K3107	7.64	7.00	6.25
● DS1E-S-DC24V	SPDT	24	2880	200	46F5610	7.64	7.00	6.25
● DS2E-S-DC5V	DPDT	5	125	200	46F5628	4.69	4.31	3.84
● DS2E-S-DC6V	DPDT	6	180	200	64K3120	4.63	4.24	3.79
● DS2E-S-DC9V	DPDT	9	405	200	64K3121	4.69	4.31	3.84
● DS2E-S-DC12V	DPDT	12	720	200	64K3115	4.69	4.31	3.84
● DS2E-S-DC24V	DPDT	24	2880	200	64K3116	4.69	4.31	3.84
● DS2E-S-DC48V	DPDT	48	11520	200	64K3118	6.36	5.84	5.21

2-COIL LATCHING

● DS1E-ML2-DC5V	SPDT	5	69.4	360	46F5600	5.65	5.18	4.63
● DS1E-ML2-DC12V	SPDT	12	400	360	46F5603	5.65	5.18	4.63
● DS2E-ML2-DC5V	DPDT	5	69.4	360	46F5616	4.48	4.11	3.67
● DS2E-ML2-DC9V	DPDT	9	225	360	64K3114	4.19	3.84	3.43
● DS2E-ML2-DC12V	DPDT	12	400	360	46F5619	4.48	4.11	3.67
● DS2E-ML2-DC24V	DPDT	24	1600	360	46F5620	4.48	4.11	3.67
● DS2E-SL2-DC5V	DPDT	5	139	180	46F5634	5.54	5.08	4.54
● DS2E-SL2-DC12V	DPDT	12	800	180	46F5637	5.54	5.08	4.54
● DS2E-SL2-DC24V	DPDT	24	3200	180	46F5638	5.54	5.08	4.54

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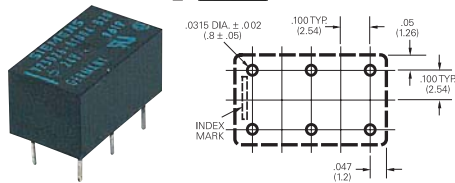
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LOW-SIGNAL RELAYS

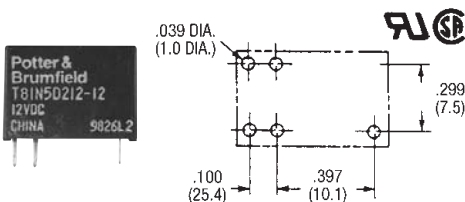
AXICOM 1A MINIATURE SEALED PC BOARD RELAYS



Relays are designed for compact, high-density mounting. 108.5mm² surface area. Units switch loads from dry circuit to 1A. Contact type: bifurcated, SPDT. Dimensions for thru-hole: 0.138H x 0.272L x 0.512"W max.; pin length = 0.138" max. Suitable for data and communication systems. Expected mechanical life: 1 billion operations. **V23026B1** thru-hole dual-coil latching, **V23026C1** thru-hole single-coil latching and surface mount versions also available; go online or call. UL recognized, CSA certified.

Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Nom. Power (mW)	Stock No.	Price Each			
					1-24	25-49	50-99	100-249
● V23026A1001B201	5	370	68	35K3232	4.42	3.87	3.50	2.76
● V23026A1002B201	12	2250	64	36K3721	4.42	3.87	3.50	2.76
● V23026A1004B201	24	4500	128	36K3722	4.73	4.14	3.75	2.96

P&B 1A MINIATURE HIGH-DENSITY PC BOARD RELAYS

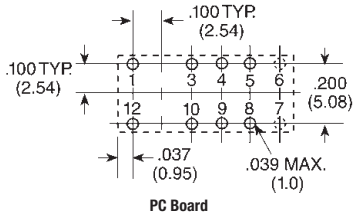


- SPDT contacts
- Silver-palladium alloy, gold overlay contacts
- 3-24VDC available
- High dielectric strength
- Immersion cleanable, plastic-sealed case

T81 series relays are ultra-miniature devices that permit high-density packaging for savings in equipment size and cost. Ideal for office machines, logic and process control. Contacts rated for 1A@240VDC or 0.5@120VAC, resistive load. Printed circuit terminals are on 0.1 x 0.3" (2.54 x 7.62) DIP compatible grid layout. Temperature range: -40° to +75°C (sensitive coil). High dielectric relays—1000Vrms contact-to-coil. Standard dielectric relays—500Vrms contact-to-coil. Dimensions in inches (mm): .626 (15.9)L x .429 (10.9)W x .460 (11.7)H. UL recognized, CSA certified.

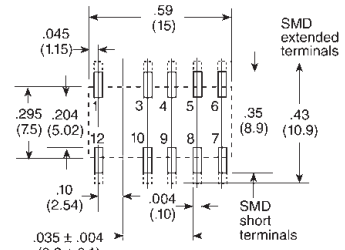
Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Coil	Stock No.	Price Each		
					1-24	25-49	50-99
● T81H5D312-05	5	125	Sensitive	35K3230	2.95	2.69	2.56
● T81H5D312-12	12	700	Sensitive	36K7688	3.45	3.13	2.97
● T81H5D312-24	24	2800	Sensitive	36K7689	3.29	2.99	2.72
● T81N5D312-05	5	55	Standard	08H5187	3.75	3.43	3.13
● T81N5D312-12	12	320	Standard	36K3713	4.20	3.68	3.33
● T81N5D312-24	24	1280	Standard	36K2076	3.19	2.89	2.65

AXICOM 2A PC BOARD RELAYS



PC Board

AXICOM 2A PC BOARD RELAYS (CONT.)



Surface Mount

Miniature PC board relays are compact with high-capacity contact: 2A at 30VDC, 5A switching current units are 2-pole polarized and rated 30VDC, 1 res. Surge voltage between contact and coil: (10 x 150ms): 1500V, FCC part 68 and Bellcore 2110j, 2500V. Dimensions: 0.39H x 0.57L x 0.28"W max.; pin length = 0.122" max. Breakdown voltage between contacts and coil: 1800Vrms for 1 min. Initial dielectric between open contacts: 1000Vrms for 1 min. Contact type: silver-nickel bifurcated DPDT. Nominal coil power for relays listed: 140mW. Immersion-cleanable, plastic sealed case. UL recognized, CSA certified.

STANDARD COIL — NONLATCHING, THRU-HOLE

Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Stock No.	Price Each			
				1-24	25-49	50-99	100-249
● V23079A1001B301	5	178	22C6912	2.33	2.04	1.85	1.46
● V23079A1003B301	12	1029	36K7697	2.33	2.04	1.85	1.46
● V23079A1005B301	24	4114	35K5063	2.13	1.97	1.85	1.58

OVERMOLDED COIL — NONLATCHING, THRU-HOLE

● V23079A2001B301	5	178	93B0726	2.33	2.04	1.85	1.46
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STANDARD COIL — DUAL-COIL LATCHING, THRU-HOLE

● V23079B1205B301	24	4114	35K2062	2.93	2.57	2.32	1.83
● V23079D1005B301	24	4114	36K2088	2.81	2.46	2.23	1.76

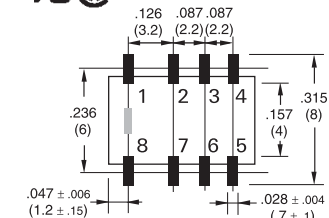
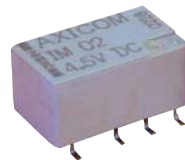
OVERMOLDED COIL — NONLATCHING, SURFACE MOUNT

● V23079D1003B301	12	1029	36K2087	2.54	2.23	2.02	1.59
● V23079D2003B301	12	1029	93B0800	2.54	2.23	2.02	1.59

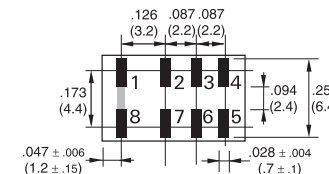
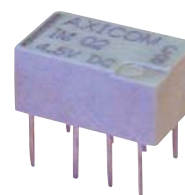
STANDARD COIL — DUAL-COIL LATCHING, SURFACE MOUNT

● V23079E1201B301	5	178	36K7698	2.86	2.50	2.27	1.79
● V23079E1203B301	12	1029	36K2089	2.86	2.50	2.27	1.79
● V23079E1205B301	24	4114	35K3235	2.86	2.50	2.27	1.79

AXICOM 2A SLIMLINE LOW-PROFILE LOW-SIGNAL PC BOARD RELAYS

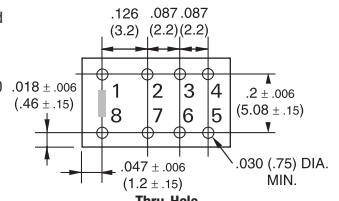


SMT Gullwing



SMT J-Leg

- Contact material: palladium-ruthenium, gold covered
- Reflow solder capable to 260°C for SMT and 265°C for thru hole
- Non-Latching
- Meets Bellcore GR 1089, FCC Part 68 and ITU-T K20
- Immersion cleanable IP67, plastic sealed case
- Low power consumption
- DPDT bifurcated contacts
- Max. switched voltage: 220VDC, 250VAC
- Max. switched power: 60W DC or 62.5VA AC.
- Expected mechanical life: 100 million operations



Thru-Hole

For applications in telecommunications, office automation, consumer electronics, medical equipment, measurement and control equipment. Capacitance: Between Open Contacts: 1pF, max. Between Coil and Contacts: 2pF, max. Between Poles: 2pF, max. RF Characteristics: Isolation at 100 / 900 MHz: -37.0 db / -18.8 db. Insertion loss at 100 / 900 MHz: -0.03 db / -0.33 db. V.S.W.R at 100 / 900 MHz: 1.06 / 1.49. Initial Dielectric Strength: Between Open Contacts: 1000 Vrms for 1 minute. Between Coil and Contacts: 1800 Vrms for 1 minute. Between Poles: 1000 Vrms for 1 minute. Temperature Range: -55°C to +85°C. Maximum Allowable Coil Temperature: 125°C. Continuous Duty Cycle.

CONTINUED

LOW-SIGNAL RELAYS • MIL SPEC RELAYS

AXICOM 2A SLIMLINE LOW-PROFILE LOW-SIGNAL PC BOARD RELAYS (CONT.)

THT STANDARD NON-LATCHING 1 COIL

Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Coil Power (mW)	Termination	Stock No.	Price Each	
						1-24	25-49
● IM00TS	1.5	16	140	Thru Hole	19K8726	2.31	2.02
● IM02TS	4.5	145	140	Thru Hole	19K8732	2.38	2.08
● IM03TS	5	178	140	Thru Hole	19K8735	2.38	2.08
● IM04TS	6	257	140	Thru Hole	19K8738	2.38	2.08
● IM05TS	9	574	140	Thru Hole	19K8741	2.38	2.08
● IM06TS	12	1028	140	Thru Hole	19K8744	2.57	2.25
● IM07TS	24	2880	200	Thru Hole	19K8747	2.81	2.46

SMT J-LEADS NON-LATCHING 1 COIL

● IM00JR	1.5	16	140	SMT J-Lead	19K8725	2.38	2.08
● IM01JR	3	64	140	SMT J-Lead	19K8728	2.38	2.08
● IM02JR	4.5	145	140	SMT J-Lead	19K8731	2.38	2.08
● IM06JR	12	1028	140	SMT J-Lead	19K8743	2.57	2.25
● IM07JR	24	2880	200	SMT J-Lead	19K8746	2.81	2.46

SMT GULL WINGS NON-LATCHING 1 COIL

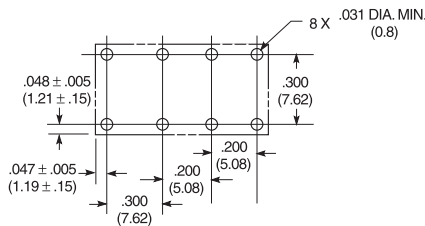
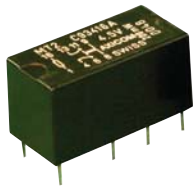
● IM00GR	1.5	16	140	SMT Gullwing	19K8724	2.38	2.08
● IM01GR	3	64	140	SMT Gullwing	19K8727	2.38	2.08
● IM02GR	4.5	145	140	SMT Gullwing	19K8730	2.38	2.08
● IM06GR	12	1028	140	SMT Gullwing	19K8742	2.57	2.25
● IM07GR	24	2880	200	SMT Gullwing	19K8745	2.81	2.46

(89698)

AXICOM 2A LOW-SIGNAL PC BOARD RELAYS (MT2)



RoHS Compliant Available



- Meets FCC Part 68 and ITU-T K20
- Immersion cleanable, plastic sealed case
- DPDT bifurcated contacts
- Expected mechanical life: 100 million operations
- Expected electrical life: 5 million operations @ 10mA / 30mVDC
- Resistance to soldering heat: +260°C / 10s
- Temperature range: -55°C to +85°C

For applications in telecommunications, office automation, consumer electronics, medical equipment, measurement and control equipment. Ultrasonic cleaning not recommended. Capacitance: Between open contacts: 2pF max, between coil and contacts: 4pF max, between poles: 2pF max. Dimensions in inches(mm): 0.433(1.10)H x 0.795(20.2)L x 0.393(10.0)W. RF characteristics: Isolation at 100 / 900MHz: -31.8db / -14.2db. Insertion loss at 100 / 900MHz: -0.02db / -0.97db. V.S.W.R. at 100 / 900MHz: 1.03 / 1.31.

Mfg. Part No.	Coil Voltage (VDC)	Coil Resistance (Ω)	Coil Power (mW)	Stock No.	Price Each			
					1-24	25-49	50-99	100-249
● C93416	5	125	200	60K5347	2.18	1.91	1.72	1.36
● C93405	9	544	150	31K9093	1.68	1.47	1.33	1.05
● C93419	24	2880	200	93C9922	2.06	1.81	1.64	1.29
● C93430	48	4100	550	31K9096	2.84	2.48	2.25	1.77
● C93426	48	5760	400	31K9095	2.80	2.24	2.13	2.02

(84816)

CII 2A MIL SPEC PC BOARD RELAYS



- Hermetically sealed
- Low-profile (0.32" high)
- 150 Grid-space relay saves space in electronic packaging
- Coil voltage: 26.5VDC



Pin spacing allows you to insert the relay with no intermediate pin spreaders as well as meet applicable military specifications.

Mfg. Part No.	MIL SPEC*	Contacts	Coil Resist. (Ω)	Coil Power (mW)	Stock No.	Price Each	
						1-4	5-9
3SBC1503A2	M39016/13-057L	DPDT	1350	520	16M0474	136.29	124.69
3SBC1518A2	M39016/13-057M	DPDT	1350	520	16M0480	136.29	124.69

➔ CONTINUED ➔

CII 2A MIL SPEC PC BOARD RELAYS (CONT.)

Mfg. Part No.	MIL SPEC*	Contacts	Coil Resist. (Ω)	Coil Power (mW)	Stock No.	Price Each	
						1-4	5-9
3SBC2002A2	M39016/13-057P	DPDT	1350	520	16M0522	192.93	176.51
3SBH1139A2	M39016/14-002M	4PDT	720	975	64K3240	525.95	481.19

*L suffix denotes M39016 qualified, level L; M suffix denotes M39016 qualified, level M; P suffix denotes M39016 qualified, level P. (89688)

CII 2A MIL SPEC PC BOARD RELAYS



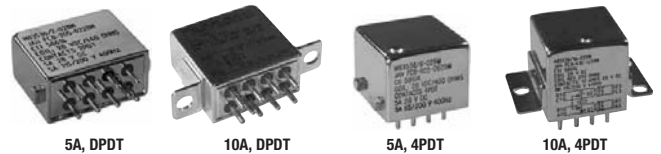
- Hermetically sealed
- Up to 5A switching
- High shock and vibration ratings
- Excellent RF switching
- DPDT contacts

HFV SERIES HALF-SIZE HIGH PERFORMANCE RELAYS

Mfg. Part No.	MIL SPEC*	Coil Voltage (VDC)	Terminal Type	Stock No.	Price Each	
					1-4	5-9
HFV1201G01M	M39016/6-116M	12	Thru Hole	20M7538	75.93	69.47
HFV1131K04M	M39016/6-107M	26.5	Solder Hook	20M7524	77.57	70.97
HFV1201K00	...	26.5	Thru Hole	96B1882	123.07	112.60
HFV1201K45	M39016/6-109L	26.5	Thru Hole	20M7571	56.80	51.97
HFV1201K45M	M39016/6-109M	26.5	Thru Hole	78H2224	91.41	83.63
HFV1201K46	M39016/6-209L	26.5	Thru Hole	90B2919	89.21	81.62
HFV1201K46M	M39016/6-209M	26.5	Thru Hole	78H2234	77.57	70.97

*L suffix denotes M39016 qualified, level L; M suffix denotes M39016 qualified, level M; P suffix denotes M39016 qualified, level P. (89688)

CII 5-25A MIL SPEC PC BOARD RELAYS



- Hermetically sealed
- All welded construction
- Balanced force

- Permanent magnet drive
- Coil voltage: 28VDC

Polarized single-side stable design. Flux from a permanent magnet provides the armature holding force in the deactivated state. Flux path is switched and combined with the coil flux in the operated state which results in increased contact pressure in both states over that of a spring return non-polar design. Pin terminals except **mfg. part no. FCA-210-0923M** which has solder hook terminals. Bottom mount. MIL-R-83536 qualified.

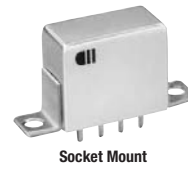
Mfg. Part No.	MIL SPEC	Contacts	Carry Current (A)	Mounting Type	Stock No.	Price Each	
						1-4	5-9
FCB-205-0224M	M83536/2-024M	DPDT	5	Plug In	20M7450	155.83	143.00
FCB-205-0228M	M83536/2-028M	DPDT	5	DIN Rail	20M7451	160.69	147.46
FCA-210-0923M	M83536/9-023M	DPDT	10	Panel	20M7002	110.22	101.14
FCB-405-0622M	M83536/6-022M	4PDT	5	Plug In	20M7463	170.85	156.78
FCA-410-1620M	M83536/16-020M	4PDT	10	Panel	26K2325	184.83	169.61
FCA-410-1622M	M83536/16-022M	4PDT	10	Plug In	21K5500	184.83	169.61

(89687)

CII 10A MIL SPEC PC BOARD RELAYS



- Hermetically sealed
- Up to 10A switching
- High shock and vibration ratings
- DPDT contacts
- Coil voltage: 26.5VDC
- Coil resistance: 300Ω
- Coil power: 2341mW



Contact rating: 10A. Solder hook terminals except for **mfg. part no. B07D634BC2-0051** which has pin terminals. MIL-R-5757/23 qualified.

Mfg. Part No.	MIL SPEC	Mounting Type	Stock No.	Price Each		
				1-4	5-9	10+
B07D634BC2-0051	M5757/23-003	Plug In	81C7448	137.73	132.27	126.80
B07D692B22-0011	M5757/23-001	Panel	16M1120	133.72	128.41	123.10
B07D932BC2-0348	M5757/23-031	Panel	81H0443	81.95	78.70	75.45

(89688)

MOSFET PCB RELAYS

PHOTOVOLTAIC RELAYS



International
IOR Rectifier

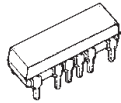


Fig. 1
16-Pin DIP

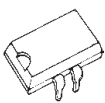


Fig. 2
8-Pin DIP

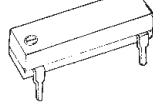


Fig. 3
14-Pin DIP

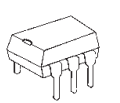


Fig. 4
6-Pin DIP

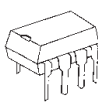


Fig. 5
8-Pin DIP



Fig. 6
Surface Mount
(Typical)

Photovoltaic relays switch general-purpose analog signals. Four terminal devices with an LED input which provides a photo-isolated signal for actuating the power ICs, which form the solid-state output contacts. 0.2µV maximum thermal offset voltage @ 5mA control. *T suffix in mfg. part no. indicates Tape and Reel packaging.

AC AND DC LOAD

Dielectric Strength Input/Output = 15000 V_{RMS}

Mfg. Part No.	Fig.	Oper. Volt. (V)	AC	DC	Off-St. Res. Min. (Ω)	Pkg.	Stock No.	Price Each
● PVR3300NPBF	1	300/300	310	310	10 ⁸	16-DIP	84K8999	14.02
● PVR3301NPBF	1	300/300	310	310	10 ⁸	16-DIP	84K9000	14.96

Dielectric Strength Input/Output = 4000 V_{RMS}

Mfg. Part No.	Fig.	Oper. Volt. (V)	AC	DC	Off-St. Res. Min. (Ω)	Pkg.	Stock No.	Price Each
● PVA1352NPBF	2	100/100	375	375	10 ⁸	8-DIP	84K8939	5.88
● PVA1354NPBF	2	100/100	375	375	10 ⁸	8-DIP	84K8941	6.41
● PVA2352NPBF	2	200/200	150	150	10 ⁸	8-DIP	84K8944	6.48
● PVA3354NPBF	2	300/300	150	150	10 ⁸	8-DIP	84K8952	5.95
● PVAZ172NPBF	2	60/60	700	1000	10 ⁸	8-DIP	84K8936	10.68
● PVAZ172NSPBF	...	60/60	700	1000	10 ⁸	8-DIP	84K8938	10.84
● PVG612APBF	4	60/60	1000	2000	10 ⁸	6-DIP	84K8965	9.59
● PVG612SPBF	...	60/60	1000	2000	10 ⁸	6-DIP	84K8970	6.41
● PVG612ASPBF	...	60/60	2000	4000	...	6-DIP	84K8967	9.67
● PVG612PBF	6	60/60	2000	4000	...	6-DIP	84K8968	6.25
● PVN012APBF	4	20/20	2500	4500	.16 x 10 ⁸	6-DIP	19M4584	9.59
● PVN012PBF	4	20/20	2500	4500	.16 x 10 ⁸	6-DIP	84K8986	5.88
● PVN012SPBF	...	20/20	2500	4500	.16 x 10 ⁸	6-DIP	84K8988	6.04
● PVN012S-TPBF	...	20/20	2500	4500	.16 x 10 ⁸	6-DIP	84K8987	6.52
● PVN013SPBF	...	20/20	2500	4500	NA	6-DIP	84K8991	10.23
● PVR3300NPBF	1	300/300	310	310	10 ⁸	16-DIP	84K8999	14.02
● PVR3301NPBF	1	300/300	310	310	10 ⁸	16-DIP	84K9000	14.96
● PVT312PBF	4	250/250	190	320	2.5 x 10 ⁸	6-DIP	84K9006	2.51
● PVT312LPBF	4	250/250	190	320	2.5 x 10 ⁸	6-DIP	84K9004	2.78
● PVT312LSPBF	...	250/250	190	320	2.5 x 10 ⁸	6-DIP	19M4587	2.83
● PVT312SPBF	...	250/250	190	320	2.5 x 10 ⁸	6-DIP	19M4588	2.75
● PVT322PBF	6	250/250	190	320	2.5 x 10 ⁸	8-DIP	84K9011	5.13
● PVT322APBF	5	250/250	170	170	2.5 x 10 ⁸	8-DIP	84K9008	10.98
● PVT322ASPBF	...	250/250	170	170	2.5 x 10 ⁸	8-DIP	84K9010	11.08
● PVT322AS-TPBF	...	250/250	170	170	2.5 x 10 ⁸	8-DIP	84K9009	11.27
● PVT322SPBF	...	250/250	170	170	2 x 10 ⁸	8-DIP	84K9013	5.18
● PVT412PBF	4	400/400	140	210	4 x 10 ⁸	6-DIP	84K9020	2.41
● PVT412APBF	4	400/400	140	210	4 x 10 ⁸	6-DIP	84K9014	5.34
● PVT412LPBF	...	400/400	120	200	4 x 10 ⁸	6-DIP	84K9019	2.83
● PVT412LSPBF	...	400/400	120	200	4 x 10 ⁸	6-DIP	84K9018	2.94
● PVT412SPBF	...	400/400	140	210	4 x 10 ⁸	6-DIP	84K9022	2.46
● PVT422SPBF	...	400/400	120	230	3.2 x 10 ⁸	8-DIP	84K9027	4.86
● PVT422S-TPBF	...	400/400	120	230	3.2 x 10 ⁸	8-SMT	40M8015	5.69
● PVU414SPBF	6	400/400	140	210	10 ¹⁰	6-DIP	84K9030	5.98
● PVX6012PBF	3	400/400	1	1	0.4 x 10 ⁸	14-DIP	84K9031	11.62

DC ONLY LOAD

Dielectric Strength Input/Output = 4000 V_{RMS}

Mfg. Part No.	Fig.	Oper. Volt. (V)	AC	DC	Off-St. Res. Min. (Ω)	Pkg.	Stock No.	Price Each
● PVD1352NPBF	2	100/100	550	550	10 ¹⁰	8-DIP	84K8957	6.81
● PVD1354NPBF	2	100/100	550	550	10 ¹⁰	8-DIP	84K8959	7.35
● PVDZ172NPBF	...	60/1500	1000	1500	10 ⁸	8-DIP	84K8954	8.15
● PVDZ172NSPBF	...	60/1500	1000	1500	10 ⁸	8-DIP	84K8956	8.31

(3625)

New products added weekly

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(148886)

PHOTOVOLTAIC ISOLATORS



International
IOR Rectifier

Ideally suited for applications requiring high-current and/or high-voltage switching with optical isolation between the low-level driving circuitry and high-energy or high-voltage load circuits. The series PVI photovoltaic isolator generates an electrically isolated DC voltage upon receipt of a DC input signal. It is capable of directly driving gates of power MOSFETs or IGBTs. The PVI series is available in thru-hole (N-Ending) and surface mount (NS-Ending). The PVI5033R photovoltaic isolator is a dual-channel, opto-isolated driver capable of directly driving gates of power MOSFETs or IGBTs. The PVI5033R series is available in thru-hole (R-Ending), surface mount (RS-Ending), and surface mount tape and reel (PS-Ending); go online or call for tape and reel version.

Mfg. Part No.	Fig.	Number of Outputs	Output Volt. (VDC)	Short Circuit Current (µA)	Nom. Control Current (mA)	Dielectric Strength Input/Output (V _{RMS})	Stock No.	Price Each
● PVI1050NPBF	5	2	5	5	10	2500	84K8974	6.77
● PVI1050NSPBF	*	2	5	5	10	2500	84K8976	6.82
● PVI5013RPBF	5	2	5	1	10	3750	84K8977	6.33
● PVI5033RPBF	5	5	5	5	5	3750	84K8980	7.24
PVI5033RS	*	5	5	5	5	3750	97B8665	7.30
● PVI5033RSPBF	*	5	5	5	5	3750	20M6178	7.30
● PVI5080NSPBF	*	1	5	8	10	4000	84K8985	4.26

*Not depicted (8-Pin SMT Package) (3626)

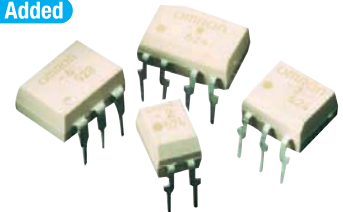
LOW-SIGNAL SOLID-STATE MOSFET PCB BOARD RELAYS



OMRON
ELECTRONIC COMPONENTS

Just Added

- Extremely low input current
- Ideal for microprocessor and logic switching relays
- Input voltage: 1.15V
- Forward current: 50mA
- Reverse voltage: 5V
- Reverse current: 10µA
- Operating temperature: -40°C to +85°C



Complete part number is not printed on the part.

Mfg. Part No.	Output Voltage (V)	Contacts	Load Current (mA)	Withstand Voltage (VAC)	Stock No.	Price Each
● G3VM-21GR	20	SPST-NO	160	1500	04M9618	2.85 2.66
● G3VM-21GR1	20	SPST-NO	160	1500	84H0207	4.72 4.25
● G3VM-21LR	20	SPST-NO	160	1500	70H0673	12.28 11.07
● G3VM-21LR10(TRO5)	20	SPST-NO	200	1500	88M4208	7.31 6.84
● G3VM-21LR1	20	SPST-NO	450	1500	49H3882	18.14 16.33
● G3VM-41LR6	40	SPST-NO	120	1500	04M9672	10.81 9.73
● G3VM-41GR5	40	SPST-NO	300	1500	30K6537	4.72 4.25
● G3VM-41LR5	40	SPST-NO	300	1500	67J6918	13.28 12.41
● G3VM-61GR1	60	SPST-NO	1000	...	19P9239	4.86 4.54
● G3VM-61ER	60	SPST-NO	2500	2500	04M9688	13.72 12.37
● G3VM-V	60	SPST-NO	300	2500	83F5367	2.39 2.15
● G3VM-VF	60	SPST-NO	300	2500	69H0094	2.06 1.92
● G3VM-61G1	60	SPST-NO	400	2500	04M9693	3.88 3.50
● G3VM-61H1	60	SPST-NO	400	1500	04M9695	2.82 2.54
● G3VM-61LR	60	SPST-NO	400	1500	71P8054	10.88 8.93
● G3VM-61A1	60	SPST-NO	500	...	73K1860	4.16 3.75
● G3VM-61B1	60	SPST-NO	500	...	04M9682	2.48 2.23
● G3VM-61D1	60	SPST-NO	500	2500	21K5341	4.16 3.75
● G3VM-61E1	60	SPST-NO	500	2500	41J2925	4.32 3.89
● G3VM-62J1	60	DPST-NO	400	1500	73J7546	4.76 4.45
● G3VM62F1	60	DPST-NC	500	2500	45J4054	3.37 3.15
● G3VM-62C1	60	DPST-NO	500	2500	73K1861	4.46 4.02
● G3VM-81HR	80	SPST-NO	2500	1500	45P5527	14.23 12.83
● G3VM-81HR.	80	SPST-NO	2500	1500	54K3078	14.23 12.83
● G3VM81G1	80	SPST-NO	350	1500	79J5854	6.54 5.89
● G3VM-S5	200	SPST-NO	150	1500	28H9191	2.76 2.49
● G3VM-202J1	200	DPST-NO	200	1500	04M9617	3.88 3.63
● G3VM-351G	350	SPST-NO	110	...	04M9633	3.09 2.78
● G3VM-S2	350	SPST-NO	110	...	28H9183	2.37 2.22
● G3VM-2	350	SPST-NO	120	2500	83F5361	2.39 2.15
● G3VM-2F	350	SPST-NO	120	2500	83F5362	2.46 2.22
● G3VM-2FL	350	SPST-NO	120	2500	04M9613	2.80 2.53
● G3VM-3	350	SPST-NO	120	2500	83F5363	2.35 2.12
● G3VM-351A	350	SPST-NO	120	...	64J8803	2.45 2.20
● G3VM-351D	350	SPST-NO	120	2500	04M9631	2.49 2.24
● G3VM-3F	350	SPST-NO	120	2500	83F5364	2.39 2.15
● G3VM351B	350	SPST-NO	120	2500	45J4045	1.82 1.70
● G3VM351E	350	SPST-NO	120	2500	45J4046	1.85 1.73
● G3VM355CR	350	SPST-NO	120	2500	45J4049	7.00 6.54

CONTINUED

MOSFET PCB RELAYS

LOW-SIGNAL SOLID-STATE MOSFET PC BOARD RELAYS (CONT.)

Mfg. Part No.	Output Voltage (V)	Contacts	Load Current (mA)	Withstand Voltage (VAC)	Stock No.	Price Each	
						1-24	25-49
● G3VM355FR	350	SPST-NO	120	2500	45J4050	7.00	6.54
● G3VM-353A1	350	SPST-NC	150	2500	04M9639	3.56	3.21
● G3VM353A	350	SPST-NC	150	2500	53H7256	5.16	4.82
● G3VM353B	350	SPST-NC	150	2500	53H7257	5.07	4.74
● G3VM353D	350	SPST-NC	150	2500	53H7258	5.11	4.78
● G3VM353E	350	SPST-NC	150	2500	53H7259	5.16	4.82
● G3VM352J.	350	DPST-NO	110	1500	60K7656	2.66	2.49
● G3VM352C	350	DPST-NC	120	2500	45J4047	2.66	2.49
● G3VM352F	350	DPST-NC	120	2500	45J4048	2.66	2.49
● G3VM354C	350	DPST-NC	150	2500	53H7260	10.62	9.93
● G3VM354F	350	DPST-NC	150	2500	53H7261	10.77	10.07
● G3VM-401D	400	SPST-NO	120	...	04M9655	2.72	2.54
● G3VM401BY	400	SPST-NO	120	5000	45J4051	2.85	2.67
● G3VM-401EY	400	SPST-NO	240	2500	04M9657	3.87	3.49
● G3VM402C	400	DPST-NC	120	2500	45J4052	3.92	3.67
● G3VM402F	400	DPST-NC	120	2500	45J4053	3.92	3.67
● G3VM601BY	600	SPST-NO	100	5000	53H7262	5.16	4.82
● G3VM601EY	600	SPST-NO	100	5000	53H7263	5.29	4.95
● G3VM601EY	600	SPST-NO	100	5000	53H7263	5.29	4.95

(34092)

PHOTOMOS SOLID STATE RELAYS



Mfg. Part No.	Load Current (A)	Load Voltage (V)	Switch Function	Iso Volt. (V)	On Resist. (ohm)	Pkg.	Stock No.	Price Each
								1-9
● LH1500AAB	150	350	SPST-NO	5300	20	6-SMD	21H0651	2.31
● LH1500AABTR	150	350	SPST-NO	5300	20	6-SMD	21H0652	2.43
● LH1500AT	150	350	SPST-NO	5300	20	6-DIP	58K1788	2.31
● LH1502BAC	150	350	DPST-1NO/1NC	3750	20	8-SMD	21H0657	5.14
● LH1502BB	150	350	DPST-1NO/1NC	3750	20	8-SMD	88K1960	5.14
● LH1510AAB	200	200	SPST-NO	5300	11.27	6-SMD	58K1789	2.90
● LH1510AABTR	200	200	SPST-NO	5300	11.27	6-SMD	60K6165	2.99
● LH1518AT	155	250	SPST-NO	5300	15	6-DIP	58K1794	2.68
● LH1518AT	155	250	SPST-NO	5300	15	6-DIP	58K1794	2.68
● LH1520AAC	150	350	SPST-NO	5300	20	8-SMD	58K1795	5.10
● LH1520AB	150	350	SPST-NO	5300	20	8-DIP	21H0686	5.10
● LH1522AAC	140	400	SPST-NO	5300	10	8-SMD	58K1797	5.10
● LH1522AB	140	200	SPST-NO	5300	10	8-DIP	61K0058	5.10
● LH1525AAB	125	400	SPST-NO	5300	26	6-SMD	21H0696	3.04
● LH1525AABTR	125	400	SPST-NO	5300	26	6-SMD	21H0697	3.11
● LH1525AT	125	400	SPST-NO	5300	26	6-DIP	58K1798	3.19
● LH1540AAB	120	350	SPST-NO	5300	20	6-SMD	58K1799	2.19
● LH1540AABTR	120	350	SPST-NO	5300	20	6-SMD	59K0219	2.26
● LH1540AT	120	350	SPST-NO	5300	20	6-DIP	59K0220	2.19
● LH1546AABTR	120	350	SPST-NO	5300	28	6-SMD	58K1800	2.02
● VO1400AEFTR	100	60	SPST-NO	1500	2.3	4-SOP	32M5997	1.08
● VO1400AEFTR	100	60	SPST-NO	1500	2.3	4-SOP	46M5888	1.08

DUAL PHOTOVOLTAIC MOSFET DRIVER

● LH1262CAC	14	15	...	5300	50	8-SMD	21H0648	3.77
● LH1262CACTR	14	15	...	5300	50	8-SMD	21H0649	3.84
● LH1262CB	14	15	...	5300	50	8-DIP	58K1787	3.77

DUAL PHOTOVOLTAIC MOSFET DRIVER

Mfg. Part No.	Forward Voltage (V)	Reverse Voltage (V)	Package	Stock No.	Price Each		Tape & Reel	
					1-9	Stock No.	Price 1-9	...
● LH1262CAC	1.45	5	8-SMD	21H0648	3.77	21H0649	3.84	...
● LH1262CB	1.45	5	8-DIP	58K1787	3.77	...	...	...
● VO1263AAC	1.3	350	8-SMD	93K1107	3.98	93K1108	4.03	...
● VO1263AB	1.3	350	8-DIP	93K1109	3.93	...	...	...
● VO1263AACTR	1.3	350	8-SMD	46M5887	4.03
● VO1400AEFTR	1.4	5	4-SOP	32M5997	1.08
● VO1400AEFTR	1.4	5	4-SOP	46M5888	1.08

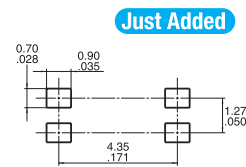
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RF PHOTOMOS RELAYS



Panasonic

Panasonic Electric Works Corporation of America



Just Added

- C x R 5, C x R 10 versions available
- 4-pin SSOP package
- 40% less mounting space than 4-pin SOP packages
- Lower output capacitance and on resistance
- New flat lead terminal to reduce mounting space and improve output signals

- High-speed switching (0.02ms)
- SPST contacts
- Output capacitance: 1pF

Typical applications include test equipment, board testers, medical equipment, and multipoint recorders. Turn-on and turn-off time is 0.02ms. Power dissipation = 75mW (in), 250mW (out). Operating temperature = -40°C to +85°C. Dimensions: (4.45L x 2.65W x 1.80H)mm. Relays are packaged as each. For tape & reel picked from the 1-4 pin side, add suffix "Y" to mfg. part no.; for tape & reel picked from the 2-3 pin side, add suffix "W" to mfg. part no. Reel qty: 3500. For availability, go online or call

C x R 5

Mfg. Part No.	ON Resist. (Ω)	Load Voltage (VAC)	Load Current (mA)	Forward Current (mA)	Output Cap. (pF)	Stock No.	1-24	25-49
● AQY221R2V	0.75	40	250	50	12.5	94C1062	13.66	13.28
● AQY221N3V	5.50	25	150	50	1	79C4352	8.92	8.67
● AQY221N2V	9.50	40	120	50	5	33C9535	8.68	8.44
● AQY225R2V	10.50	80	120	50	4.1	45M7094	9.79	9.52

GU SOP4 HIGH CAPACITY VOLTAGE SENSITIVE

● AQY212FG2S	0.50	60	1250	09R2883	8.00	7.20
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C x R 10

● AQY221R2MY	1.25	40	250	09R2887	9.20	8.28
● AQY221N2MY	12.50	40	120	09R2886	8.60	7.74

C x R SSOP VOLTAGE SENSITIVE

● AQY221FR2VY	1.25	40	250	09R2885	8.45	7.61
● AQY221FN2VY	12.50	40	120	09R2884	8.05	7.25

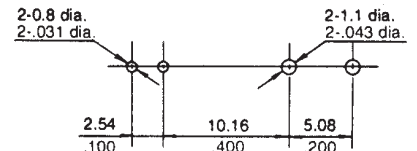
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POWER PHOTOMOS RELAYS



Panasonic

Panasonic Electric Works Corporation of America



- Contacts: SPST
- Output power: 1.6W for AC/DC types, 1.35W for DC types only
- PC board layout is simplified
- No restriction on mounting direction

High capacity PhotoMOS relay in a compact and slim 4-pin SIL. Feature extremely low on resistance and extremely low closed circuit offset voltage to enable control of low-level analog signals without distortion. Eliminate the need for a counter electromotive protection diode in the drive circuit on the input side and the need for a power supply to drive the power MOSFET. Outside dimensions: 21mm(L) x 12.5mm (H) x 3.5mm (D).

Mfg. Part No.	Output Rating			Stock No.	Price Each			
	Load Voltage (VAC)	Load Voltage (VDC)	Load Current (A)		1-24	25-49	50-99	100-499
● AQZ102	...	60	4.0	52F5584	9.70	8.90	7.95	6.74
● AQZ202	60	60	3.0	95F6437	10.50	9.63	8.60	7.29
● AQZ205	100	100	2.0	95F6438	9.92	9.09	8.12	6.89
● AQZ207	200	200	1.0	64K3058	10.50	9.63	8.60	7.29
● AQZ204	400	400	0.5	95F6440	10.50	9.63	8.60	7.29
● AQZ404	400	400	0.5	64K3060	13.55	12.42	11.09	9.41

(3325)



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(148881)

MOSFET PCB RELAYS • PLUG-IN/INDUSTRIAL RELAYS – SQUARE

PHOTOMOS RELAYS



Panasonic

Panasonic Electric Works Corporation of America



6-DIP Thru-Hole



6-DIP SMT



4-SOP



8-DIP SMT



8-DIP Thru-Hole

Directly drive a power MOSFET. Control current with low level input signals. Low thermal electromotive force; approx. 1µV. LED forward current: 50mA. Input power: 75mW; for mfg. part no. AQV201. Terminal thickness: 0.25mm. Operating temperature range: -20°C to +80°C. I/O isolation voltage: 1,500VAC. 0.300" (7.62) row spacing. Packaged in 50-piece tubes. Tape & reel also available, go online or call.

Mounting products on DIN rail? See our selection of DIN rails and accessories

RELATED ITEMS

See page 2259 in Enclosures, Boxes, Racks & Thermal Mgt

8-12A POWER RELAYS



Relay



Socket

- Compact housing only 12.7 mm wide
- Large contact rating: RJ1 (1-pole) 16A (UL general use rating@250V AC), RJ2 (2-pole) 8A
- Non-polarized LED indicator available on blade type. IDEC unique light guide structure enables high visibility of coil status from and direction
- Excellent electrical and mechanical life
- Electrical life: 200,000 operations (AC load)
- Mechanical life: 30 million operations (AC coil)
- RoHS directive compliant (EU directive 2002/95/EC). Contains no lead, cadmium, mercury, hexavalent chromium, PBB or PBDE.
- Diode model: Diode revers withstand voltage: 1000V
- UL recognized, CSA certified, EN compliant

RJ series relays are available with optional green, non-polarized LED that provides enhanced visibility of power status from multiple directions. Unique light guide makes status indicator brighter and more noticeable. Compact blade relay saves space when used with compatible SJ series sockets. Using RJ series relay and SJ series socket, reduce DIN width mounting by 30 percent when compared to standard 2-pole relays. UL recognized, CSA certified, VDC approved, and CE marked in compliance with IEC 61810-1. 240V also available; go online or call Newark.

8A DPDT CONTACTS

Mfg. Part No.	Coil Voltage	Coil Resist. (Ω)	Indicator Light	Stock No.	Price Each		
					1-24	25-49	50-99
● RJ2S-C-A24	24VAC	232	No	33K1051	7.55	6.74	6.39
● RJ2S-CL-A24	24VAC	232	Yes	33K1057	11.13	9.94	9.42
● RJ2S-C-A120	120VAC	6400	No	33K1050	8.13	7.26	6.88
● RJ2S-CL-A120	120VAC	6400	Yes	33K1056	11.90	10.63	10.08
● RJ2S-C-A240	240VAC	25570	No	33K1052	10.84	9.68	9.18
● RJ2S-C-D12	12VDC	540	No	33K1054	5.81	5.19	4.92
● RJ2S-CL-D12	12VDC	540	Yes	33K1060	10.45	9.34	8.85
● RJ2S-C-D24	24VDC	1080	No	33K1055	5.81	5.19	4.92
● RJ2S-CL-D24*	24VDC	1080	No	01N5249	6.87	6.14	5.82
● RJ2S-CL-D24	24VDC	1080	Yes	33K1061	10.45	9.34	8.85
● RJ2S-CLD-D24*	24VDC	1080	Yes	01N5250	11.52	10.29	9.75
● RJ2S-C-D100	100-110VDC	18870	No	33K1053	8.13	7.26	6.88

12A SPDT CONTACTS

● RJ1S-C-A24	24VAC	232	No	33K1039	6.78	6.05	5.74
● RJ1S-CL-A24	24VAC	232	Yes	33K1045	8.52	7.61	7.21
● RJ1S-C-A120	120VAC	6400	No	33K1038	7.45	6.66	6.31
● RJ1S-CL-A120	120VAC	6400	Yes	33K1044	11.03	9.85	9.34
● RJ1S-C-A240	240VAC	25570	No	33K1040	9.87	8.82	8.36
● RJ1S-C-D12	12VDC	540	No	33K1042	5.13	4.58	4.34
● RJ1S-CL-D12	12VDC	540	Yes	33K1048	8.32	7.43	7.05
● RJ1S-C-D24	24VDC	1080	No	33K1043	5.13	4.58	4.34
● RJ1S-CL-D24*	24VDC	1080	No	01N5247	6.20	5.53	5.25
● RJ1S-CL-D24	24VDC	1080	Yes	33K1049	8.32	7.43	7.05
● RJ1S-CLD-D24*	24VDC	1080	Yes	01N5248	9.39	8.38	7.95
● RJ1S-CL-D100	100-110VDC	18870	Yes	33K1047	11.03	9.85	9.34

RELAY SOCKETS

Mfg. Part No.	For Use With	Mounting	Termination	Stock No.	Price Each	
					1-24	25-49
● SJ1S-05B	RJ1S Relays	Standard DIN Rail	Screw	33K1091	3.87	3.46
● SJ1S-07L	RJ1S Relays	IEC Finger-Safe DIN Rail	Screw	33K1092	3.87	3.46
● SJ1S-61	RJ1S Relays	PCB Mount	Through Hole	01N5251	1.75	1.56
● SJ2S-05B	RJ2S Relays	Standard DIN Rail	Screw	33K1093	6.29	5.62

➔ CONTINUED ➔

SPST-NO, 1-CHANNEL

Mfg. Part No.	Pack-age	Mounting Type	VAC/VDC	On Resist. (Ω)	Output Power (mW)	Stock No.	Price Each		
							1-24	25-49	50-99
● AQV101	6-DIP	Thru-Hole	40	0.5	360	94F8717	6.38	5.85	5.22
● AQV201	6-DIP	Thru-Hole	40	1	350	50F4048	7.29	6.69	5.97
● AQV221	6-DIP	Thru-Hole	40	22	230	50F4054	4.69	4.31	3.84
● AQV221A	6-DIP	SMT	40	22	75	50F4055	4.99	4.57	4.08
● AQV251	6-DIP	Thru-Hole	40	1	360	93F6298	5.62	5.16	4.60
● AQV201A	6-DIP	SMT	40	1	350	50F4049	7.29	6.69	5.97
● AQV251A	6-DIP	SMT	40	1	360	95F6427	5.62	5.16	4.60
● AQV212	6-DIP	Thru-Hole	60	2.5	500	01F1112	4.43	4.06	3.63
● AQV252	6-DIP	Thru-Hole	60	1.4	360	95F6428	5.62	5.16	4.60
● AQV212A	6-DIP	SMT	60	2.5	500	50B839	4.43	4.06	3.63
● AQV212S	6-SOP	SMT	60	2.5	450	95F6434	4.69	4.31	3.84
● AQV257	6-DIP	Thru-Hole	200	26	75	96B9209	5.62	5.16	4.60
● AQV253	6-DIP	Thru-Hole	250	8	360	93F6299	5.30	4.86	4.34
● AQV210E	6-DIP	Thru-Hole	350	35	500	16F9086	2.79	2.56	2.28
● AQV210EH	6-DIP	Thru-Hole	350	35	500	93F3412	3.00	2.75	2.46
● AQV210EH	4-DIP	Thru-Hole	350	35	500	10C4001	2.97	2.73	2.43
● AQV210EA	6-DIP	SMT	350	35	500	16F9087	2.81	2.58	2.30
● AQV210EHA	6-DIP	SMT	350	35	500	95F6425	3.08	2.82	2.52
● AQV210S	6-SOP	SMT	350	35	450	95F6433	4.69	4.31	3.84
● AQV210S	4-SOP	Thru-Hole	350	17	300	95B0003	4.87	4.47	3.99
● AQV214	6-DIP	Thru-Hole	400	50	500	50F4050	4.19	3.84	3.43
● AQV214E	6-DIP	Thru-Hole	400	50	500	10C3756	2.79	2.56	2.28
● AQV214H	6-DIP	Thru-Hole	400	50	500	50F4052	4.75	4.35	3.89
● AQV214EH	6-DIP	Thru-Hole	400	50	500	10C3760	3.00	2.75	2.46
● AQV414	6-DIP	Thru-Hole	400	50	500	93F6301	4.93	4.52	4.04
● AQV414EH	6-DIP	Thru-Hole	400	26	75	10C3877	4.75	4.35	3.89
● AQV214A	6-DIP	SMT	400	50	500	50F4051	4.19	3.84	3.43
● AQV214EA	6-DIP	SMT	400	50	500	10C3757	2.81	2.58	2.30
● AQV214S	6-SOP	SMT	300	50	300	95F6435	4.69	4.31	3.84
● AQV258	6-DIP	Thru-hole	1500	500	360	10C3859	6.34	5.81	5.19
● AQV258A	6-DIP	SMT	1500	500	360	10C3860	5.97	5.47	4.89
● AQV259	6-DIP	Thru-Hole	1000	200	360	91B9260	6.58	6.03	5.39
● AQV259A	6-DIP	SMT	1000	200	360	10C3867	6.58	6.03	5.39
● AQV214S	4-SOP	SMT	400	35	300	10C4007	4.88	4.48	4.00

SPST-NC, 1-CHANNEL

● AQV414S	6-SOP	SMT	400	50	450	95F6436	5.25	4.82	4.30
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DPST, 2-CHANNEL

● AQW210EH	8-DIP	Thru-Hole	350	23	850	10C3902	5.73	5.25	4.69
● AQW210EHA	8-DIP	SMT	350	25	800	10C3903	6.07	5.57	4.97
● AQW212	8-DIP	Thru-Hole	60	0.83	850	95B9352	7.42	6.81	6.08
● AQW214	8-DIP	Thru-Hole	400	30	800	50F4057	7.42	6.81	6.08
● AQW214A	8-DIP	SMT	400	30	850	50F4056	7.26	6.65	5.94
● AQW214EH	8-DIP	Thru-Hole	400	35	800	10C3924	6.44	5.91	5.28
● AQW214EHA	8-DIP	SMT	400	35	800	13C2727	6.07	5.57	4.97
● AQW214S	8-SOP	SMT	400	30	650	66F9999	7.93	7.27	6.49
● AQW223R2S	8-SOP	SMT	250	11	600	45M7092	10.76	9.87	8.81

SPST-NO, SPST-NC, 2-CHANNEL

● AQW614EH	8-DIP	Thru-Hole	400	35	800	10C3990	6.60	6.05	5.41
● AQW614EHA	8-DIP	SMT	400	35	800	10C3991	6.60	6.05	5.41

DPST-NC, 2 CHANNEL

● AQW414	8-DIP	Thru-Hole	400	26	850	16F9091	9.28	8.51	7.60
● AQW414A	8-DIP	SMT	400	26	850	95B9350	8.75	8.02	7.17
● AQW414EH	8-DIP	Thru-Hole	400	35	500	10C3974	8.01	7.34	6.56
● AQW414EHA	8-DIP	SMT	400	35	500	10C3975	7.56	6.93	6.19

(83326)

PLUG-IN/INDUSTRIAL RELAYS – SQUARE

8-12A POWER RELAYS (CONT.)

Mfg. Part No.	For Use With	Mounting	Termination	Stock No.	Price Each		
					1-24	25-49	50-49
● SJ2S-07L	RJ2S Relays	IEC Finger-Safe DIN Rail	Screw	33K1094	6.29	5.62	
● SJ2S-61	RJ2S Relays	PCB Mount	Through Hole	01N5252	2.04	1.82	

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each		
			1-24	25-49	50-99
● SJ9Z-JF2	2 pole jumper for SJ screw terminal socket	01N5254	2.58	2.31	2.19
● SJ9Z-JF5	5 pole jumper for SJ screw terminal socket	01N5255	3.66	3.27	3.10
● SJ9Z-JF8	8 pole jumper for SJ screw terminal socket	01N5256	5.16	4.61	4.37
● SJ9Z-JF10	10 pole jumper for SJ screw terminal socket	01N5253	5.81	5.19	4.92
● BNDN1000	1m DIN Rail	96F6501	8.15	7.18	6.64
● BNL-5	DIN Rail End Stop	66M8411	1.37	1.24	1.15

* Contains surge suppression diode (84845)

20A-30A PC BOARD AND FLANGE MOUNT RELAYS



RoHS Compliant Available



Fig. 1 - PC Board Mount



Fig. 3 - PCB + Quick Connect Terminals



Fig. 4 - Flange Mount

G8P series: industry standard 30A power relay. Class F coil insulation. Applications include HVAC and appliance controls. Meets UL873 column A spacing (1/4" over surface 1/8" through air) and 6kV impulse surge coil to contacts. Dimensions in mm: PC board model = 32.1L x 27.7W x 20.1H; PC board + 1/4" quick-connect terminals = 31.9L x 27.5W x 28.3H; flange mount = 50.3L x 27.7W x 28.3H. UL recognized, CSA certified.



Fig. 2 - PC Board Mount Open Style

FIG. 1 - SEALED PC BOARD

Mfg. Part No.	Contacts	Carry Current (A)	Coil Voltage (VDC)	Seal Type	Coil Resist. (Ω)	Stock No.	Price Each
● G8P-1A4P-DC5	SPST-NO	30	5	Sealed with Ventable NIB	27	89C6867	2.63
● G8P-1A4P-DC12	SPST-NO	30	12	Sealed with Ventable NIB	155	17C6951	3.55
● G8P-1A4P-DC24	SPST-NO	30	24	Sealed with Ventable NIB	660	67K9369	3.55
● G8P-1C4P-DC12	SPDT	20	12	Sealed with Ventable NIB	155	33K9489	3.66
● G8P-1C4P-DC24	SPDT	20	24	Sealed with Ventable NIB	660	67K9371	3.66

FIG. 2 - OPEN PC BOARD

● G8P-1AP-DC5	SPST-NO	30	5	Open Frame	27	67K9368	2.80
● G8P-1AP-DC12	SPST-NO	30	12	Open Frame	155	35K4545	2.80

FIG. 3 - SEALED PC BOARD + QUICK-CONNECT TERMINALS

● G8P-1A4TP-DC12	SPST-NO	30	12	Sealed with Ventable NIB	155	36K3250	4.11
● G8P-1A4TP-DC24	SPST-NO	30	24	Sealed with Ventable NIB	660	67K9370	4.11
● G8P-1C4TP-DC12	SPDT	20	12	Sealed with Ventable NIB	155	67K9372	4.22
● G8P-1C4TP-DC24	SPDT	20	24	Sealed with Ventable NIB	660	35K3200	4.22

FIG. 4 - FLANGE MOUNT + QUICK-CONNECT TERMINALS

● G8P-1A2T-F-DC12	SPST-NO	30		Vented	155	17C6949	4.44
● G8P-1A2T-F-DC24	SPST-NO	30	24	Vented	660	17C6950	4.44
● G8P-1C2T-F-DC5	SPDT	20	5	Vented	27	78K5974	3.37
● G8P-1C2T-F-DC12	SPDT	20	12	Vented	155	17C6955	4.55
● G8P-1C2T-F-DC24	SPDT	20	24	Vented	660	36K1958	4.55

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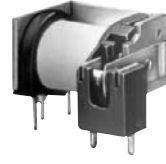
P&B 30A PC BOARD RELAYS

Just Added



Tyco Electronics

- Class F coil insulation
- Max coil power: 2.8W
- Contacts: silver-cadmium oxide
- Operating temperature: -55°C to +85°C
- Continuous duty cycle



T90N



T90S

immersion cleanable, plastic sealed case available. Designed primarily for appliance industry and heating, ventilating and air conditioning markets. Mechanical life expectancy: 10 million operations. Electrical life expectancy: 100,000 operations.

T90N series relays are open with no cover (snap-on dust cover available as an option). T90S series relays are 30A SWITCHING

Mfg. Part No.	Coil		Contacts	Stock No.	Price Each		
	Voltage (VDC)	Resist. (Ω)			1-24	25-49	50-99
● T90N1D12-12	12	155	SPST-NO	17M3071	2.19	2.01	1.85
● T90N1D12-24	24	660	SPST-NO	17M3072	2.23	2.05	1.93
● T90N1D42-24	24	660	SPST-NO	17M3073	2.38	2.17	2.02
● T90N1D12-110	110	13450	SPST-NO	17M3070	4.23	3.85	3.50
● T90S1D12-5	5	27	SPST-NO	46F3610	2.75	2.50	2.28
● T90S1D12-9	9	97	SPST-NO	08H5246	3.48	3.17	2.94
● T90S1D12-12	12	155	SPST-NO	17M3075	2.55	2.30	2.18
● T90S1D12-18	18	380	SPST-NO	29C2067	2.70	2.46	2.29
● T90S1D12-24	24	660	SPST-NO	20M7048	2.41	2.17	2.04
● T90S1D42-24	24	660	SPST-NO	17M3076	2.43	2.29	2.15

20A/10A SWITCHING

● T90S5D12-5	5	27	SPDT	44F1124	2.40	2.19	2.03
● T90S5D12-12	12	155	SPDT	20M7047	2.25	2.06	1.95
● T90S5D42-24	24	660	SPDT	08H5239	2.50	2.28	2.12
● T90S5D12-24	24	660	SPDT	17M3074	2.29	2.13	2.02
● T90S5D12-5	5	27	SPDT	46F3613	2.88	2.52	2.28
● T90S5D12-12	12	155	SPDT	17M3077	2.54	2.32	2.20
● T90S5D12-24	24	660	SPDT	20M7049	2.32	2.14	2.02
● T90S5D42-24	24	660	SPDT	97F8355	2.50	2.16	1.96

BLACK DUST COVER

Mfg. Part No.	For Use With	Stock No.	Price Each		
● 35C620A	T90N Series Open-Style Relays	44F1127	0.82	0.72	0.65

(3310)

P&B PC BOARD/PANEL MOUNT RELAYS



RoHS Compliant Available



Tyco Electronics

Just Added



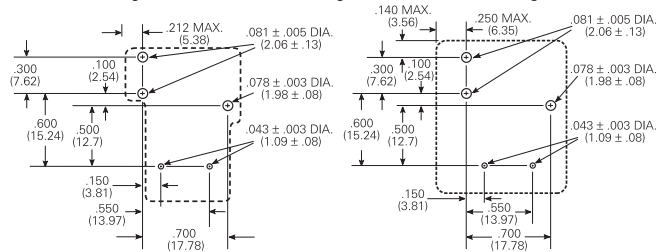
Fig. 1



Fig. 2



Fig. 3



PC Board Layout (Bottom View) T9AS/V - Mounting and Termination Code 1

PC Board Layout (Bottom View) T9AP/S - Mounting and Termination Code 2

Up to 30 amp switching in SPST and 20 amp in SPDT arrangements. Meets UL 873 and UL 508 spacing - 1/4" through air, 1/4" over surface. Class F coil insulation standard. Silver-cadmium oxide contacts. Maximum coil power: 2.8W. Nominal coil power: 1.0W. "P" in mfg. part no. indicates unsealed version with plastic dust cover. "S" in mfg. part no. indicates version that is immersion cleanable, has a knock-off nib and comes in a sealed plastic case. "V" in mfg. part no. indicates version that has a flux-proof plastic case. UL Class F insulation standard. UL recognized, CSA certified.

➤ CONTINUED ➤

PLUG-IN/INDUSTRIAL RELAYS – SQUARE

P&B PC BOARD/PANEL MOUNT RELAYS (CONT.)

Figure	Fig. 1	Fig. 2	Fig. 3
Terminals	PC Board Mounting: PC Terminals for Coil and Contacts	Flanged Mounting: .187" (4.75mm) Quick Connects for Coil and .250" (6.35mm) Quick Connects for Contacts	PC Board Mounting: PC Terminals for Coil and Contacts, and .250" (6.35mm) and Quick Connects for Contacts
Dimensions	.805 (20.4)H x 1.08 (27.43)W x 1.28" (32.51)L	1.10 (27.94)H x 1.98 (50.29)W x 1.08" (27.43)L	1.10 (27.94)H x 1.28 (32.51)W x 1.08" (27.43)L

Mfg. Part No.	Fig.	Coil Voltage (VDC)	Coil Resist. (Ω)	Contacts	Stock No.	Price Each	
						1-24	25-49
● T9AS1D12-5	1	5	25	SPST-NO	26M8314	2.74	
● T9AS1D12-12	1	12	144	SPST-NO	17M3062	2.44	
● T9AV1D12-12	1	12	144	SPST-NO	08H5204	2.44	
● T9A-S1D12-18	1	18	324	SPST-NO	25C0838	2.46	
● T9AV1D12-22	1	22	484	SPST-NO	23H0391	1.35	
● T9AS1D12-24	1	24	576	SPST-NO	17M3063	2.20	
● T9AS1D12-48	1	48	2304	SPST-NO	17M3064	3.14	
● T9AS1D12-110	1	110	12100	SPST-NO	66F6696	3.36	
● T9ASSD12-12	1	12	144	SPDT	17M3066	2.26	
● T9ASSD12-18	1	18	324	SPDT	17M3067	2.45	
● T9ASSD12-24	1	24	576	SPDT	17M3068	2.47	
● T9ASSD12-48	1	48	2304	SPDT	17M3069	2.73	
● T9ASSD12-110	1	110	12100	SPDT	66F6697	3.52	
● T9AP1D52-12	2	12	144	SPST-NO	17M3058	3.35	
● T9AP1D52-22-01	2	22	484	SPST-NO	08H5192	3.02	
● T9AP1D52-24	2	24	576	SPST-NO	17M3059	3.02	
● T9AP1D52-48	2	48	2304	SPST-NO	66F6698	3.17	
● T9AP1D52-48-01	2	48	2304	SPST-NO	17M3060	3.17	
● T9AP5D52-12	2	12	144	SPDT	92F3729	2.85	
● T9AP5D52-24	2	24	576	SPDT	17M3061	2.85	
● T9AS1D22-5	3	5	...	SPST-NO	66F6687	2.47	
● T9AS1D22-12	3	12	144	SPST-NO	92F3733	2.60	
● T9AS1D22-24	3	24	576	SPST-NO	17M3065	2.59	
● T9ASSD22-5	3	5	25	SPDT	66F6688	2.65	
● T9ASSD22-12	3	12	144	SPDT	92F3738	3.00	
● T9ASSD22-24	3	24	576	SPDT	92F3739	2.59	

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5A-30A POWER RELAYS



Screw Terminal



Quick-Connect

- Dielectric strength: 4,000VAC
- Max. switching voltage: 250VAC
- Contact material: AgCdO
- Push-to-test button

- UL class B coil insulation
- Conforms to IEC 950
- Quick-connect, screw and PC board terminals available

Quick-connect and screw-terminal relays available with E-brackets **mfg. part no. R99-07G5D** and track mounting adaptor **mfg. part no. P7LF-D** separately. Quick-connect relays available with front connecting socket **mfg. part no. P7LF-06** and cover **mfg. part no. P7LF-C**. PC board terminal versions and VDE approved versions also available; go online or call. UL recognized, CSA certified, TÜV approved.

SPST-NO, 30A

Mfg. Part No.	Coil Input Voltage	Coil Resist. (Ω)	Terminals*	Stock No.	Price Each	
					1-24	25-49
● G7L-1A-TUB-J-CB-DC12	12VDC	75	Q.C.	36K3248	10.01	9.05
● G7L-1A-BUB-J-CB-DC12	12VDC	75	Screw	52F3947	13.99	12.65
● G7L-1A-TUB-J-CB-AC24	24VAC	303	Q.C.	67K9364	12.92	12.11
● G7L-1A-BUB-J-CB-AC24	24VAC	...	Screw	52F3944	13.44	12.16
● G7L-1A-TUB-J-CB-DC24	24VDC	303	Q.C.	35K4541	11.93	11.19
● G7L-1A-BUB-J-CB-DC24	24VDC	303	Screw	36K1956	13.99	12.65
● G7L-1A-BUB-J-CB-AC100/120	100/120VAC	5,260	Screw	35K3199	14.79	13.37
● G7L-1A-TUB-J-CB-AC100/120	100/120VAC	5,260	Q.C.	35K4540	13.07	11.77
● G7L-1A-TUB-J-CB-AC200/240	240VDC	21,000	Q.C.	36K3247	13.81	12.43

DPST-NO, 25A

● G7L-2A-TUB-J-CB-DC12	12VDC	75	Q.C.	36K7474	9.80	9.20
● G7L-2A-TUB-CB-AC24	24VAC	303	Q.C.	89C6808	10.59	9.58
● G7L-2A-TUB-J-CB-AC24	24VAC	303	Q.C.	67K9366	13.54	12.19
● G7L-2A-BUB-J-CB-DC24	24VDC	303	Screw	67K9365	14.74	13.33
● G7L-2A-TUB-J-CB-DC24	24VDC	303	Q.C.	35K4544	9.80	9.20
● G7L-2A-TUB-J-CB-AC100	100VAC	5,260	Q.C.	52F3950	13.34	12.07
● G7L-2A-BUB-J-CB-AC100/120	100/120VAC	5,260	Screw	52F3955	15.51	14.03
● G7L-2A-T-J-CB-AC100/120	100/120VAC	5,260	Q.C.	51B757	11.12	10.06
● G7L-2A-TUB-CB-AC100/120	100/120VAC	5,260	Q.C.	35K4542	11.12	10.06
● G7L-2A-BUB-J-CB-AC200/240	200/240VAC	21,000	Screw	52F3956	16.12	14.58
● G7L-2A-TUB-80-CB-AC200/240	200/240VAC	21,000	Q.C.	36K1957	12.89	11.66
● G7L-2A-TUB-J-CB-A200/240	200/240VAC	21,000	Q.C.	67K9367	13.59	12.29

*Q.C. = Quick-Connect (3726)

30A POWER RELAYS



Just Added



- Class F coil insulation
- Silver cadmium oxide contacts
- Epoxy sealed package



30A switching, NC contacts rated 3A. Flange mount has 1/4" QC terminals. Mechanical life: 5 million operations. Dimensions: 2.70L x 1.36W x 1.10"H, DIN/flange mount. UL listed, File No. E43641. Additional AC and DC voltages available; go online or call.

Flange / DIN Mount

Mfg. Part No.	Contacts	Coil Voltage	Coil Resist. (Ω)	Stock No.	Price Each		
					1-24	25-49	50-99
● W92S7D22D-12D	DPST-NO	12VDC	86	45P2957	12.11	10.99	10.53
● W92S7D22D-24D	DPST-NO	24VDC	350	45P2958	8.68	7.87	7.54
● W92S11D22D-12D	DPDT	12VDC	86	45P2976	12.60	11.44	10.96
● W92S11D22D-24D	DPDT	24VDC	350	71J8920	9.05	8.21	7.87
● W92S11A22D-120A	DPDT	120VAC	1600	10M6366	8.50	7.79	7.42

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P&B 30A POWER RELAYS



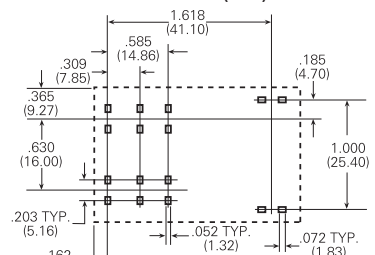
Panel Mount w/Flanged Cover 2.700 (68.58)L x 1.360 (34.54)W x 1.04 max. (26.42)H

Just Added



PC Board Mount 2.060 (52.32)L x 1.360 (34.54)W x 1.21 (30.73)H

T92 series power relays are available in PC board and panel mount versions and DPST-NO and DPDT configurations. Panel mount relays have two mounting slots for #8 screws on 2.35" (59.71) centers. Applications include appliance, heating and ventilating. "P" in mfg. part no. denotes plastic dust cover (unsealed). "S" in mfg. part no. denotes immersion-cleanable, tape sealed plastic case. Silver-cadmium oxide contact material. Meets requirements of VDE 8mm spacing 4kV dielectric coil-to-contacts. Dimensions in inches (mm).



Suggested PC Board Layout (Bottom View)

➔ CONTINUED ➔

TechCast® Product Training

Use the library of online training modules located on our homepage under Useful Tools, with specific guidance for complex solutions.

(148857)

PLUG-IN/INDUSTRIAL RELAYS – SQUARE

P&B 30A POWER RELAYS (CONT.)

AC RELAYS — SEALED PC BOARD MOUNT

Mfg. Part No.	Contacts	Coil Voltage	Coil Resist. (Ω)	Coil Power	Stock No.	Price Each		
						1-24	25-49	50-99
● T92S7A12-24	DPST-NO	24	36.6	4VA	97H1908	11.57	11.04	10.11
● T92S7A12-120	DPST-NO	120	950	4VA	08H5275	13.11	12.52	11.46
● T92S7A12-240	DPST-NC	240	3800	4VA	66F3421	11.52	10.47	9.58
● T92S11A12-24	DPDT	24	36.6	4VA	17M3089	13.59	12.97	11.87
● T92S11A12-120	DPDT	120	950	4VA	08H5269	11.79	11.25	10.30

AC RELAYS — DUST COVER PANEL MOUNT

● T92P7A22-24	DPST-NC	24	36.6	4VA	17M3084	9.56	8.77	8.09
● T92P7A22-120	DPST-NC	120	950	4VA	17M3083	8.27	7.58	7.01
● T92P7A22-240	DPST-NC	240	3800	4VA	17M3085	10.90	10.00	9.24
● T92P11A22-24	DPDT	24	36.6	4VA	17M3079	10.72	9.82	9.06
● T92P11A22-120	DPDT	120	950	4VA	17M3078	9.27	8.50	7.84
● T92P11A22-208	DPDT	208	2841	4VA	91B3217	14.00	13.37	12.24
● T92P11A22-240	DPDT	240	3800	4VA	17M3080	12.08	11.07	10.22
● T92P11A22-277	DPDT	277	5485	4VA	99F8452	14.36	13.71	12.55

AC RELAYS — SEALED PANEL MOUNT

● T92S7A22-24	DPST-NC	24	36.6	4VA	93F2958	11.98	10.98	10.12
● T92S7A22-120	DPST-NC	120	950	4VA	17M3096	10.37	9.50	8.77
● T92S7A22-208	DPST-NO	208	2841	4VA	90B5430	13.55	12.93	11.84
● T92S7A22-240	DPST-NC	240	3800	4VA	04F1209	10.10	9.25	8.54
● T92S11A22-24	DPDT	24	36.6	4VA	17M3091	11.75	10.77	9.95
● T92S11A22-120	DPDT	120	950	4VA	17M3090	11.76	10.78	9.96
● T92S11A22-240	DPDT	240	3800	4VA	17M3092	12.92	11.84	10.92

DC RELAYS — DUST COVER PC BOARD MOUNT

● T92P7D12-12	DPST-NC	12	86	1.7W	66F3419	9.84	8.61	7.79
● T92P7D12-24	DPST-NC	24	350	1.7W	17M3086	9.84	8.61	7.79

DC RELAYS — SEALED PC BOARD MOUNT

● T92S7D12-12	DPST-NC	12	86	1.7W	17M3097	9.46	8.68	8.31
● T92S7D12-24	DPST-NC	24	350	1.7W	17M3098	9.02	8.20	7.67
● T92S7D12-48	DPST-NO	48	1390	1.7W	04F1203	10.64	10.15	9.29
● T92S11D12-12	DPDT	12	86	1.7W	17M3093	10.16	9.32	8.92
● T92S11D12-110	DPDT	110	7255	1.7W	04F1206	14.10	13.46	12.32

DC RELAYS — DUST COVER PANEL MOUNT

● T92P7D22-12	DPST-NC	12	86	1.7W	17M3087	9.12	8.36	7.72
● T92P7D22-24	DPST-NC	24	350	1.7W	17M3088	8.68	7.89	7.23
● T92P7D22-48	DPST-NO	48	1390	1.7W	08H5266	9.96	9.51	8.71
● T92P11D22-12	DPDT	12	86	1.7W	17M3081	8.37	7.67	7.09
● T92P11D22-24	DPDT	24	350	1.7W	17M3082	11.82	10.63	9.66

DC RELAYS — SEALED PANEL MOUNT

● T92S7D22-18	DPST-NC	18	197	1.7W	17M3100	10.00	9.55	8.74
● T92S7D22-110	DPST-NO	110	7255	1.7W	04F1208	13.05	12.46	11.40
● T92S11D22-12	DPDT	12	86	1.7W	17M3094	10.90	9.81	8.92
● T92S11D22-24	DPDT	24	350	1.7W	17M3095	10.42	9.56	8.83

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40A HEAVY-DUTY POWER RELAYS



5/16" (7.95) diameter, silver alloy gold-flashed contacts are rated at 40A at 300VAC/28VDC. Magnetic blowout versions rated up to 20A at 110VDC (SPDT-DM only); 10A at 110VDC (double through). All versions are rated 15A tungsten, NEMA A600 pilot duty and up to 2HP, Class B insulation system. Dielectric withstanding voltage between open contacts: 1500V; between mutually insulated conductive elements: 2200V. Combination screw terminals. Molded phenolic base. UL listed File No. E43641, CSA certified file no. 40787, CE compliant.

Contacts	Dimensions (inches)		
	L	W	H
DPDT	3.12	2.50	2.31
SPDT	2.43	2.50	2.18
SPST-NO (DM)	2.43	2.50	2.25

AC OPERATED RELAYS

Mfg. Part No.	Contacts	Coil Voltage	Coil Resist. (Ω)	Stock No.	Price Each	
					1-14	15-24
W199AX-13	DPDT	24VAC	12	28F1617	30.95	29.25
W199AX-14	DPDT	120VAC	290	56F971	22.90	20.44

▶ CONTINUED ▶

40A HEAVY-DUTY POWER RELAYS (CONT.)

Mfg. Part No.	Contacts	Coil Voltage	Coil Resist. (Ω)	Stock No.	Price Each	
					1-14	15-24
W199ABX-14*	DPDT	120VAC	290	70B3279	31.24	28.65
W199AX-15	DPDT	240VAC	1200	56F972	31.04	29.36
W199AX-8	DPST-NO	24VAC	12	56F949	27.05	25.81
W199AX-9	DPST-NO	120VAC	290	56F950	27.16	24.78
W199AX-10	DPST-NO	240VAC	1200	56F951	27.69	26.19
W199AX-4	SPDT	120VAC	290	56F955	22.17	20.79
W199ADX-4	SPST-NO-DM	120VAC	290	47F1103	21.07	19.93

DC OPERATED RELAYS

W199X-12	DPDT	12VDC	70	56F641	34.33	31.69
W199X-13	DPDT	24VDC	290	56F973	20.80	19.75
W199X-14	DPDT	110VDC	6000	56F974	32.38	30.15
W199X-7	DPST-NO	12VDC	70	56F642	25.74	23.59
W199X-8	DPST-NO	24VDC	290	56F952	28.87	26.65
W199X-2	SPDT	12VDC	70	56F957	24.34	22.62
W199X-3	SPDT	24VDC	290	28F1614	24.13	22.42
W199DX-2	SPST-NO-DM	12VDC	70	47F1104	20.60	18.90
W199DX-3	SPST-NO-DM	24VDC	290	47F1105	20.80	19.06

* with magnetic blowout
For DC switching up to 150VDC (4028)

30A HEAVY-DUTY POWER RELAYS



SPST-NO-DM Short Base

SPDT Short Base

DPST-NO Short Base

- Contact rating: 30A
- Class F coil insulation
- Molded in DuPont Rynite® for environmental protection
- Rugged construction rivets terminal to base

Nominal coil power: 9.5VA (AC coil), 2W (DC coil). Operate time: 30ms. Release time: 30ms. Dielectric strength: 2200 Vrms. Dimensions: 55.88H x 63.50W x 63.50D mm (short base); 60.45H x 84.33W x 63.50L mm (long base).



DPDT Long Base

AC COIL — SHORT BASE

Mfg. Part No.	Coil		Contacts	Stock No.	Price Each	
	Input Voltage	Resist. (Ω)			1-14	15-24
● MGN1C-AC24	24	11.5	SPDT	46M6745	21.00	20.13
● MGN1A-AC24	24	11.5	SPST-NO	89C7143	23.77	21.26
● MGN1X-AC24	24	11.5	SPST-NO-DM	89C7157	26.98	25.29
● MGN2A-AC24	24	11.5	DPST-NO	89C7162	28.39	25.56
● MGN1C-AC120	120	295	SPDT	89C7148	24.98	23.42
● MGN1X-AC120	120	295	SPST-NO-DM	89C7156	20.25	18.98
● MGN2A-AC120	120	295	DPST-NO	89C7160	28.69	26.90
● MGN2A-AC240	240	1170	DPST-NO	85C0934	30.65	28.73

AC COIL — LONG BASE

● MGN2C-AC24	24	11.5	DPDT	89C7167	38.20	34.38
● MGN2C-AC120	120	295	DPDT	89C7166	26.72	25.05
● MGN2CM-AC120*	120	295	DPDT	89C7171	52.86	49.55
● MGN2C-AC240	240	1170	DPDT	89C7168	31.73	29.74

DC COIL — SHORT BASE

● MGN1C-DC12	12	72	SPDT	89C7151	33.50	31.41
● MGN1X-DC12	12	72	SPST-NO-DM	89C7158	16.86	15.81
● MGN2A-DC12	12	72	DPST-NO	89C7163	26.12	25.25
● MGN1C-DC24	24	290	SPDT	46M6746	22.31	19.95
● MGN2A-DC24	24	290	DPST-NO	89C7164	23.84	23.00

DC COIL — LONG BASE

● MGN2C-DC12	12	72	DPDT	74C6904	48.83	45.79
● MGN2CM-DC24*	24	290	DPDT	89C7173	48.61	45.58
● MGN2C-DC24	24	290	DPDT	89C7170	47.26	44.31

* Magnetic blow-out version (79224)

PLUG-IN/INDUSTRIAL RELAYS – SQUARE

P&B 25A POWER RELAYS

Just Added



PRD1, 3, 5, and 7



PRD11 and PRDA11

PRD series relays are designed for use in high inrush current applications such as motor starting, other inductive and incandescent lamp loads. Relay bobbin is contained in plastic housing for added protection. Units feature screw terminations. Operating temperature range: -55°C to +45°C for AC models; -55°C to +80°C for DC models. Dust cover mfg. part no. 35D013 also available; go online or call. UL listed under file E22575 and CSA certified under file 15734.

AC COIL

Mfg. Part No.	Contacts	Coil Voltage (VAC)	Contact Current (A)	Coil Resist. Ω	Stock No.	Price Each	
						1-9	10-24
● PRD-1AY0-24	SPST-NO	24	25	12	18M9281	24.45	23.44
● PRD-1AY0-120	SPST-NO	120	25	290	18M9280	24.21	21.78
● PRD-3AY0-24	SPST-NO-DM	24	25	12	33F1507	24.45	23.44
● PRD-3AY0-120	SPST-NO-DM	120	25	290	17M1540	20.38	18.69
● PRD-3AGO-120	SPST-NO-DM	120	30	290	06R3611	23.67	22.70
PRD-3AY0-240	SPST-NO-DM	240	25	1200	33F1510	25.05	24.02
PRD-5AY0-12	SPDT	12	25	3.2	33F1516	28.04	26.88
● PRD-5AY0-24	SPDT	24	25	12	18M9289	24.72	21.63
● PRD-5AY0-120	SPDT	120	25	290	88F3903	23.36	21.41
● PRD-5AY0-240	SPDT	240	25	1200	17M1541	27.63	26.49
● PRD-7AY0-24	DPST-NO	24	25	12	33F1528	25.27	23.16
● PRD-7AY0-120	DPST-NO	120	25	290	17M1545	25.27	23.16
● PRD-7AY3-120	DPST-NO	120	25	290	17M1546	29.82	28.59
● PRD-7AGO-120	DPST-NO	120	30	290	17M1543	25.14	23.05
● PRD-7AY0-208	DPST-NO	208	25	850	33F1530	26.85	25.75
● PRD-7AY0-240	DPST-NO	240	25	1200	33F1531	25.81	23.67
● PRD7AGO-240	DPST-NO	240	30	1200	93B6790	28.95	27.76
● PRD-11AGO-24	DPDT	24	30	12	94F1895	37.52	35.98
● PRD-11AY0-24	DPDT	24	25	12	18M9283	31.37	28.76
● PRDA-11AYA-24	DPDT	24	25	12	20M7042	56.03	53.72
● PRDA-11AYB-24	DPDT	24	25	12	08H3112	56.96	54.61
● PRD-11AGO-120	DPDT	120	30	290	33F1536	31.25	28.65
● PRD-11AY0-120	DPDT	120	25	290	33F1540	31.38	28.76
● PRDA-11AGA-120	DPDT	120	30	290	17M1549	48.52	46.52
● PRDA-11AYA-120	DPDT	120	25	290	18M9290	48.56	46.56
● PRDA-11AYB-120*	DPDT	120	25	290	90B3628	56.96	54.61
● PRD-11AGO-240	DPDT	240	30	1200	20M7038	37.06	35.53
● PRD-11AY0-240	DPDT	240	25	1200	18M9284	31.92	29.26
● PRD-11AY0-480	DPDT	480	25	4500	17M1536	43.45	40.73

AC COIL WITH MAGNETIC BLOWOUT

For switching high voltage and high current DC loads. 2W. 20A.

● PRD-3AH0-120	SPST-NO-DM	120	20	290	95C0555	27.92	26.77
● PRD-3AJ0-120	SPST-NO-DM	120	20	290	17M1539	26.47	23.82
● PRD-7AH0-120	DPST-NO	120	20	290	17M1544	33.74	32.35
● PRD-11AH0-120	DPST-NO	120	20	290	18M9282	34.97	32.06
● PRD-11AJ0-120	DPDT	120	20	290	26C1562	40.01	38.36
● PRD-11AH0-240	DPDT	240	20	1200	17M1535	41.19	39.49

DC COIL

● PRD-3DY0-12	SPST-NO-DM	12	25	71	18M9288	23.45	21.10
● PRD-3DG0-24	SPST-NO-DM	24	30	288	20M7041	23.45	21.10
● PRD-3DY0-24	SPST-NO-DM	24	25	288	33F1513	22.66	20.77
● PRD3-DP4-24	SPST-NO-DM	24	50	288	90F1113	32.46	31.12
● PRD-3DY0-110	SPST-NO-DM	110	25	6050	33F1514	27.32	26.19
● PRD-5DY0-12	SPDT	12	25	71	17M1542	26.11	23.94
● PRD-5DY0-24	SPDT	24	25	288	33F1523	23.95	22.44
● PRD-5DY0-110	SPDT	110	25	6050	33F1524	30.71	29.45
● PRD-7DG0-24	DPST-NO	24	30	288	76M7973	24.62	23.61
● PRD-7DY0-12	DPST-NO	12	25	71	34C3232	27.75	25.90
● PRD-7DY0-24	DPST-NO	24	25	288	17M1548	24.24	22.22
● PRD-7DY0-48	DPST-NO	48	25	1150	29C4223	25.30	24.26
● PRD-7DY0-110	DPST-NO	110	25	6050	17M1547	33.22	31.85
● PRD-11DY0-12	DPDT	12	25	71	17M1538	30.66	28.10
● PRD-11DG0-12	DPDT	12	30	71	17M1537	35.31	32.35
● PRD-11DY0-24	DPDT	24	25	288	18M9287	30.66	28.10
● PRD-11DG0-24	DPDT	24	30	288	18M9285	30.60	28.05
● PRD-11DGI-24	DPDT	24	30	288	98B0460	38.44	36.85
● PRD-11DY0-24	DPDT	24	25	288	18M9287	30.66	28.10
● PRD-11DY0-48	DPDT	48	25	1150	20M7040	35.29	33.51

CONTINUED

P&B 25A POWER RELAYS (CONT.)

DC COIL

Mfg. Part No.	Contacts	Coil Voltage (VAC)	Contact Current (A)	Coil Resist. Ω	Stock No.	Price Each	
						1-9	10-24
● PRD-11DY0-110	DPDT	110	25	6050	29M9959	35.59	33.37
● PRD-5DY3-110	SPDT	110	25	6050	91C6015	33.02	31.66

DC COIL WITH MAGNETIC BLOWOUT

For switching high voltage and high current DC loads. 2W. 20A.

● PRD-3DH0-24	SPST-NO-DM	24	20	288	29M9960	27.03	25.91
● PRD-3DR4-24	SPST-NO-DM	24	60	288	25C0757	31.51	30.21
● PRD-7DH0-12	DPST-NO	12	20	71	90B6301	32.81	31.46
● PRD-7DH0-24	DPST-NO	24	20	288	98F6999	32.81	31.46
● PRD7DH0-48V	DPST-NO	48	20	1150	29C6278	33.43	32.05
● PRD-11DH0-12	DPDT	12	20	71	18M9286	38.00	35.75
● PRD-11DJ0-12	DPDT	12	20	71	13C5809	39.15	37.54
● PRD-11DH0-24	DPDT	24	20	288	20M7039	37.53	34.13
● PRD-11DJ0-24	DPDT	24	20	288	29M9958	36.58	33.25
● PRD-11DH0-48	DPDT	48	20	1150	29C4230	40.55	38.88
● PRD-11DH0-110	DPDT	110	20	6050	29M9957	40.96	37.23

* 0.250" (6.35mm) Quick-connect termination. (3288)

6-10A GENERAL-PURPOSE RELAYS

- No solder points or internal wires, for high reliability
- No lead, cadmium-free contacts
- AC or DC coil
- 14-blade solder tab/plug-in base
- Mechanical flag indicator
- LED indicator, green non-polarized
- Snap-on marking plate
- Color-coded manual latching lever
- IP40 protection



Contact material is silver tin oxide indium for 2-pole relays and gold-silver alloy on silver for 4-pole relays. Contact resistance: 50Ω max. Operating and release time: 20 msec max. Power consumption: 1.1—1.4VA (AC); 0.9—1.0W (DC). Operating temperature: -55° to +70°C. Items with "C" in the mfg. part no. are without check button. Relays with momentary check button also available go online or call Newark

10A RELAYS WITH DPDT CONTACTS

Mfg. Part No.	Coil Voltage	Coil Resist. (Ω)	Stock No.	Price Each			
				1-24	25-49	50-99	100-249
● RU2S-A24	24VAC	164	31C6507	7.95	7.33	6.96	6.67
● RU2S-C-A24	24VAC	164	84C6297	7.57	6.98	6.63	6.35
● RU2S-A110	110VAC	4550	31C6506	7.95	7.33	6.96	6.67
● RU2S-C-A110	110VAC	4550	84C6295	7.57	6.98	6.63	6.35
● RU2S-A220	220VAC	18230	84C6294	8.89	8.20	7.79	7.47
● RU2S-C-A220	220VAC	18230	84C6296	8.61	7.94	7.54	7.23
● RU2S-D12	12VDC	160	84C6302	6.62	6.11	5.80	5.56
● RU2S-C-D12	12VDC	160	84C6299	6.25	5.76	5.47	5.24
● RU2S-D24	24VDC	605	31C6508	6.62	6.11	5.80	5.56
● RU2S-C-D24	24VDC	605	84C6300	6.25	5.76	5.47	5.24
● RU2S-C-D110	110VDC	12100	84C6298	7.10	6.55	6.21	5.96

6A RELAYS WITH 4PDT CONTACTS

● RU4S-A24	24VAC	164	18C3889	9.27	8.55	8.12	7.78
● RU4S-C-A24	24VAC	164	84C6306	8.89	8.20	7.79	7.47
● RU4S-A110	110VAC	4550	18C3890	9.27	8.55	8.12	7.78
● RU4S-C-A110	110VAC	4550	84C6304	8.89	8.20	7.79	7.47
● RU4S-A220	220VAC	18230	84C6303	10.50	9.69	9.20	8.82
● RU4S-C-A220	220VAC	18230	84C6305	10.12	9.34	8.86	8.50
● RU4S-D12	12VDC	160	84C6311	7.66	7.07	6.71	6.43
● RU4S-C-D12	12VDC	160	84C6308	7.29	6.72	6.38	6.12
● RU4S-D24	24VDC	605	18C3888	7.66	7.07	6.71	6.43
● RU4S-C-D24	24VDC	605	84C6309	7.29	6.72	6.38	6.12

SOCKETS AND ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each			
			1-24	25-49	50-99	100-249
● SM2S-05	2-Pole Standard DIN Rail Mount Socket	13M2873	5.71	5.19	4.79	4.52
● SY4S-05	4-Pole Standard DIN Rail Mount Socket	13M3022	8.86	7.80	7.22	6.44
● SY4S-05C	4-Pole Finger-Safe DIN Rail Mount Socket	13M3023	10.59	9.33	8.63	7.70
● SY4S-51	2-Pole Panel Mount Socket	13M3024	1.26	1.11	1.03	0.92
● SY4S-61	2- or 4-Pole PC Board Mount Socket	13M3025	1.40	1.24	1.15	1.02
● SY4S-62	2- or 4-Pole PC Board Mount Socket	13M3026	1.40	1.24	1.15	1.02
● SY4S-02F1	Springs and Clips for Use with SY4S-05, -05C, SM2S-05, -05C	96F5504	0.28	0.25	0.23	0.21
● SFA-202		16F5300	0.28	0.25	0.23	0.21
● SY4S-51F1		96F5507	0.28	0.25	0.23	0.21
● SFA-301	61 Springs and Clips for Use with SY4S-51,	31B3619	0.41	0.36	0.34	0.30
● SFA-302		16F5301	0.20	0.18	0.17	0.15

CONTINUED

PLUG-IN/INDUSTRIAL RELAYS – SQUARE

6-10A GENERAL-PURPOSE RELAYS (CONT.)

Mfg. Part No.	Description	Stock No.	Price Each			
			1-24	25-49	50-99	100-249
● BNDN1000	35mm 1 Meter Low-Profile Aluminum DIN Rail	96F6501	8.15	7.18	6.64	5.92
● BNL-5 <small>(59286)</small>	DIN Rail End Clip	66M8411	1.37	1.24	1.15	1.08

10A POWER RELAYS



RH series power relays feature a 10-amp capacity. Silver cadmium-oxide contacts have 50ms initial contact resistance. Operating time: 20 msec. max. (SPDT/DPDT); 25 msec. max. (3PDT/4PDT). Solder or PC terminals. Temperature range: -22°F to +158°F.



Case Dimensions

Contacts	Length (in)	DPDT		Height (in)
		Width (in)	3PDT	
SPDT	1.082	0.551	1.401 max.	
DPDT		0.826		
3PDT		1.220		
4PDT		1.614		

AC COIL RELAYS

Mfg. Part No.	Contacts	Coil Volt. (VAC)	Mounting Style	Coil Resist. (Ω)	Stock No.	Price Each		
						1-24	25-49	50-99
RH1B-UAC12V	SPDT	12	Solder/Plug-In	78.8	31B2952	9.63	8.48	
● RH1B-UAC24V	SPDT	24	Solder/Plug-In	300	14M8187	9.64	8.49	
● RH1B-UAC120V	SPDT	120	Solder/Plug-In	7680	66M8459	9.64	8.49	
● RH1B-UTAC120V	SPDT	120	Top Flange	7680	15M1940	10.30	9.08	
● RH1V2-UAC120V	SPDT	120	PC Board	7680	96F3925	9.64	8.49	
● RH2B-UAC12V	DPDT	12	Solder/Plug-In	39.3	14M8198	9.94	8.76	
● RH2B-UAC24V	DPDT	24	Solder/Plug-In	153	66M8465	9.94	8.76	
● RH2B-UTAC24V	DPDT	24	Top Flange	153	14M8210	10.60	9.34	
● RH2B-UAC110-120V	DPDT	120	Solder/Plug-In	4170	66M8464	9.94	8.76	
● RH2B-UTAC110-120V	DPDT	120	Top Flange	4170	66M8469	10.60	9.34	
RH2LB-UAC120V	DPDT	120	Latching Relay	4170	16F297	30.51	26.88	
RH2B-UAC220-240V	DPDT	240	Solder/Plug-In	15210	31B2971	11.44	10.08	
● RH3B-UAC120V	3PDT	120	Solder/Plug-In	2770	66M8471	12.65	11.15	
● RH4B-UAC24V	4PDT	24	Solder/Plug-In	84.5	14M8223	15.53	13.68	
● RH4B-UAC120V	4PDT	120	Solder/Plug-In	2220	96F3962	15.46	13.82	
● RH4B-UTAC120V	4PDT	120	Top Flange	2220	14M8230	16.21	14.28	
RH2B-ULCAC24V	DPDT	24	Solder/Plug-In	153	31B2989	13.90	12.24	
● RH3B-UAC240V	3PDT	240	Solder/Plug-In	12100	31B3040	13.94	12.28	

AC COIL RELAYS w/INDICATOR LIGHT

● RH1B-ULAC120V	SPDT	120	Solder/Plug-In	7680	66M8462	12.28	10.82
● RH2B-ULAC24V	DPDT	24	Solder/Plug-In	153	14M8205	12.58	11.09
● RH2B-ULCAC110-120V	DPDT	120	Solder/Plug-In	4170	48M0903	13.90	12.24
● RH2B-ULAC110-120V	DPDT	120	Solder/Plug-In	4170	66M8467	12.58	11.09
● RH3B-ULAC24V	3PDT	24	Solder/Plug-In	103	66M8475	15.30	13.48
RH3BULCAC120V	3PDT	120	Solder/Plug-In	2770	16F299	16.61	14.64
● RH3B-ULAC120V	3PDT	120	Solder/Plug-In	2770	66M8474	15.30	13.48
● RH4B-ULAC24V	4PDT	24	Solder/Plug-In	84.5	14M8227	18.18	16.02
● RH4B-ULCAC120V	4PDT	120	Solder/Plug-In	2220	16P8992	19.49	17.17
RH4B-ULAC120V	4PDT	120	Solder/Plug-In	2220	96F3967	18.18	16.02
RH4B-ULAC240V	4PDT	240	Solder/Plug-In	9120	31B3098	15.00	13.50

DC COIL RELAYS

Mfg. Part No.	Contacts	Coil Volt. (VDC)	Mounting Style	Coil Resist. (Ω)	Stock No.	Price Each		
						1-24	25-49	50-99
● RH1B-UDC6V	SPDT	6	Solder/Plug-In	47	19P2783	8.79	7.75	
● RH1B-UDC12V	SPDT	12	Solder/Plug-In	188	66M8460	8.79	7.75	
● RH1B-UTDC12V	SPDT	12	Top Flange	188	14M8193	9.46	8.33	
● RH1V2-UDC12V	SPDT	12	PC Board	188	14M8195	8.79	7.74	
● RH1B-UDC24V	SPDT	24	Solder/Plug-In	750	66M8461	8.79	7.75	
● RH1B-UTDC24V	SPDT	24	Top Flange	750	14M8194	9.46	8.33	
● RH1V2-UDC24V	SPDT	24	PC Board	750	14M8196	8.79	7.75	
● RH2B-UDC12V	DPDT	12	Solder/Plug-In	160	66M8466	9.37	8.26	
● RH2B-UTDC12V	DPDT	12	Top Flange	160	14M8211	10.04	8.84	
RH2B-UDC-24V	DPDT	24	Solder/Plug-In	650	30H4934	9.37	8.26	
● RH2B-UTDC24V	DPDT	24	Top Flange	650	66M8470	10.04	8.84	
RH2LB-UDC24V	DPDT	24	Latching Relay	650	16F298	28.52	25.12	

➔ CONTINUED ➔

10A POWER RELAYS (CONT.)

DC COIL RELAYS

Mfg. Part No.	Contacts	Coil Volt. (VAC)	Mounting Style	Coil Resist. (Ω)	Stock No.	Price Each		
						1-24	25-49	50-99
● RH2V2-UDC24V	DPDT	24	PC Board	650	15M1942	9.37	8.26	
● RH2B-UDC100-110V	DPDT	110	Solder/Plug-In	12100	14M8201	10.89	9.60	
● RH3B-UDC12V	3PDT	12	Solder/Plug-In	100	14M8216	12.08	10.65	
● RH3B-UDC24V	3PDT	24	Solder/Plug-In	400	66M8473	12.08	10.65	
● RH3B-UDC110V	3PDT	110	Solder/Plug-In	8600	14M8215	13.24	11.67	
● RH4B-UDC12V	4PDT	12	Solder/Plug-In	96	66M8476	15.10	13.30	
● RH4B-UDC24V	4PDT	24	Solder/Plug-In	388	66M8477	15.10	13.30	
● RH4B-UDC48V	4PDT	48	Solder/Plug-In	1550	66M8478	15.10	13.30	

DC COIL RELAYS w/INDICATOR LIGHT

● RH1B-ULDC24V	SPDT	24	Solder/Plug-In	750	66M8463	11.44	10.08
● RH2B-ULDC24V	DPDT	24	Solder/Plug-In	650	19P2785	12.02	10.59
● RH2B-ULDC100-110V	DPDT	110	Solder/Plug-In	12100	16P8991	13.54	11.93
● RH3B-ULDC12V	3PDT	12	Solder/Plug-In	100	14M8220	14.72	12.97
● RH3B-ULDC24V	3PDT	24	Solder/Plug-In	400	96F3956	14.72	12.97
● RH4B-ULDC12V	4PDT	12	Solder/Plug-In	96	14M8228	17.73	15.63
● RH4B-ULDC24V	4PDT	24	Solder/Plug-In	388	14M8229	17.73	15.63
RH1B-ULDC12V	SPDT	12	Solder/Plug-In	188	29K3733	12.74	11.22
● RH1B-ULDC24V	SPDT	24	Solder/Plug-In	750	19P2784	12.75	11.23
RH1V2-UDC48V	SPDT	48	PC Board	2660	31B2968	8.79	7.75
RH2B-UDC48V	DPDT	48	Solder/Plug-In	2600	31B2981	9.37	8.26
RH2B-ULDC12V	DPDT	12	Solder/Plug-In	160	31B2992	13.33	11.74
RR2BA-ULDC12V	DPDT	12	Solder/Plug-In	100	31B3230	16.11	14.19

SOCKETS

Mfg. Part No.	For Use With Relay Series	Description	Stock No.	Price Each		
				1-24	25-49	50-99
● SH1B-05	RH1B	1-Pole Standard DIN Rail Mount	13M2859	5.20	4.58	4.24
● SH1B-05C	RH1B	1-Pole Finger-Safe DIN Rail Mount	13M2860	6.27	5.52	5.11
● SH1B-51	RH1B	1-Pole Panel-Mount	96F3996	1.26	1.11	1.03
● SH1B-62	RH1B	2-Pole PC Board Mount	13M2861	1.40	1.24	1.15
● SH2B-02	RH2B	2-Pole Surface-Mount	26M8309	6.47	5.70	5.27
● SH2B-05	RH2B	2-Pole Standard DIN Rail Mount	13M2862	6.47	5.70	5.27
● SH2B-05C	RH2B	2-Pole Finger-Safe DIN Rail Mount	13M2863	7.74	6.82	6.31
● SH2B-51	RH2B	2-Pole Panel-Mount	96F3997	1.40	1.24	1.15
● SH2B-62	RH2B	2-Pole PC Board Mount	13M2864	1.55	1.37	1.26
● SH3B-05	RH3B	3-Pole Standard DIN Rail Mount	13M2865	7.03	6.20	5.73
● SH3B-05C	RH3B	3-Pole Finger-Safe DIN Rail Mount	13M2866	8.42	7.42	6.87
● SH3B-51	RH3B	3-Pole Panel-Mount	96F3998	1.47	1.30	1.20
● SH3B-62	RH3B	3-Pole PC Board Mount	13M2867	1.62	1.43	1.32
● SH4B-05	RH4B	4-Pole Standard DIN Rail Mount	13M2868	9.14	8.05	7.45
● SH4B-05C	RH4B	4-Pole Finger-Safe DIN Rail Mount	13M2869	10.99	9.69	8.96
● SH4B-51	RH4B	4-Pole Panel-Mount	13M2870	1.96	1.72	1.60
● SH4B-62	RH4B	4-Pole PC Board Mount	13M2871	2.12	1.87	1.73

HOLD-DOWN SPRINGS

Mfg. Part No.	For Use With Socket Series	Stock No.	Price Each			
			1-24	25-49	50-99	100-249
● SY2S-02F1	All SH_B-05, 05C	96F6503	0.28	0.25	0.23	0.21
● SY4S-51F1	All SH_B-51, 62	96F6507	0.28	0.25	0.23	0.21
● SY4S-02F1	SH2B-05, 05C	96F6504	0.28	0.25	0.23	0.21
● SH3B-05F1	SH3B-05, 05C	96F6505	0.41	0.36	0.34	0.30
● SH4B-02F1	SH4B-05, 05C	96F6506	0.42	0.37	0.34	0.30

CLIPS

● SFA-101	All SH_B-05, 05C	68H3042	0.42	0.37	0.34	0.30
● SFA-202	All SH_B-05, 05C	16F5300	0.28	0.25	0.23	0.21
● SFA-301	All SH_B-51, 62	31B3619	0.41	0.36	0.34	0.30
● SFA-302	All SH_B-51, 62	16F5301	0.20	0.18	0.17	0.15

(4014)



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(148830)

PLUG-IN/INDUSTRIAL RELAYS – SQUARE

10A GENERAL-PURPOSE POWER RELAYS



- High reliability and long service life
- DPDT or 3PDT pure silver contacts
- 11-blade plug-in terminals
- Options include check button for test operation and indicator light
- Mounting options include flange mounting, DIN socket, or panel mount socket



Contact material is silver. Operating time: 25ms. Release time: 25ms. Temperature range: -30°C to +70°C. Socket ordered separately, below. UL recognized, CSA certified.

AC COIL

Mfg. Part No.	Contacts	Coil Voltage	Coil Resist. (Ω)	Indicator Light	Stock No.	Price Each		
						1-4	5-9	10-14
RR2BA-UAC24V	DPDT	24VAC	79	N	91F5550	13.09	12.53	11.80
RR2BA-USAC120V	DPDT	120VAC	2100	N	66M8479	13.77	13.18	12.41
RR2BA-UAC120V	DPDT	120VAC	2100	N	91F5551	13.09	12.53	11.80
RR3B-UAC24V	3PDT	24VAC	79	N	91F5557	14.79	14.16	13.33
RR3B-ULAC24V	3PDT	24VAC	79	Y	91F5561	17.51	16.76	15.78
RR3B-UAC120V	3PDT	120VAC	2100	N	91F5558	14.79	14.16	13.33
RR3B-ULAC120V	3PDT	120VAC	2100	Y	91F5562	17.51	16.76	15.78

DC COIL

RR2BA-UDC12V	DPDT	12VDC	100	N	91F5552	12.47	11.94	11.24
RR2BA-ULDC24V	DPDT	24VDC	400	Y	88F1414	15.19	14.54	13.69
RR2BA-USDC24V	DPDT	24VDC	400	N	31B3244	13.16	12.59	11.86
RR3B-UDC12V	3PDT	12VDC	100	N	66M8480	13.70	13.12	12.35
RR3B-ULDC12V	3PDT	12VDC	100	Y	91F5563	16.42	15.72	14.80
RR3B-UDC24V	3PDT	24VDC	400	N	91F5560	13.70	13.12	12.35
RR3B-ULDC24V	3PDT	24VDC	400	Y	91F5564	16.42	15.72	14.80
RR3B-ULDC110V	3PDT	110VDC	8460	Y	31B3337	17.77	17.01	16.01

SOCKETS AND ACCESSORIES

Mfg. Part No.	For Use With Relay Series	Description	Stock No.	Price Each		
				1-14	15-24	25-49
SR3B-05	RR1BA, RR2BA, RR3B	2- or 3-Pole Standard DIN Rail Mount Socket	13M2994	7.27	6.55	6.22
SR3B-51	RR1BA, RR2BA, RR3B	2- or 3-Pole Panel Mount Socket	17M8212	1.51	1.45	1.36
SR3B-02F1	RR1BA, RR2BA, RR3B	Hold-Down Spring for Use with SR3B-05, SR3B-51	91F6258	0.43	0.41	0.39
BNDN1000	All	35mm 1 Meter Low-Profile Aluminum DIN Rail with Holes	96F6501	8.15	7.18	6.64
BNL-5	All	DIN Rail Metal End Clip	66M8411	1.37	1.24	1.15

5A GENERAL-PURPOSE RELAYS



- DPDT and 4PDT contact configurations
- Contact resistance: 50Ω
- Power consumption: 1.2VA (60Hz), 0.9W DC
- 0.110" solder/quick-connect or PC board terminals
- Options include indicator light, check button and top mounting bracket
- DIN socket, top mounting, PC board socket or panel mount socket



Solder/Plug-In



PC Board Terminals

RY series relays satisfy applications for lower level switching needs such as pilot lights or logic level devices. Standard gold-plated contacts prevent contact oxidation from affecting circuit continuity, while optional palladium alloy bifurcated contacts reduce contact bounce and allow circuit switching in the micro-amp range. Temperature range: -22°F to +158°F. Operating time: 20 msec. max. UL recognized, CE compliant, TUV approved.

AC COIL RELAYS, SOLDER/PLUG-IN TERMINALS

Mfg. Part No.	Contacts	Coil Voltage (V)	Coil Resist. (Ω)	Indicator Light	Stock No.	Price Each		
						1-24	25-49	
RY2S-UAC24V	DPDT	24	300	N	48M0905	9.04	7.96	
RY22S-UAC120V	DPDT	120	7680	N	66M8483	11.71	10.31	
RY2KS-UAC120V	DPDT	120	7680	N	16F314	29.46	25.95	
RY2S-UAC120V	DPDT	120	4550	N	66M8481	9.04	7.96	
RY2S-UTAC120V	DPDT	120	7680	N	31B3458	9.70	8.54	
RY22S-UAC240V	DPDT	240	31200	N	31B3478	12.92	11.38	
RY4S-UAC6V	4PDT	6	9.4	N	31B3500	10.61	9.32	
RY4S-UAC24V	4PDT	24	153	N	74K3933	10.47	9.23	
RY4S-ULAC24V	4PDT	24	153	Y	74K3938	13.12	11.56	
RY42S-UAC-110-120V	4PDT	120	4170	N	16F318	16.46	14.50	

CONTINUED

5A GENERAL-PURPOSE RELAYS (CONT.)

Mfg. Part No.	Contacts	Coil Voltage (V)	Coil Resist. (Ω)	Indicator Light	Stock No.	Price Each	
						1-24	25-49
RY4S-UAC110-120V	4PDT	120	4170	N	74K3932	10.47	9.23
RY4S-ULAC110-120V	4PDT	120	4170	Y	48M0907	13.12	11.56
RY4S-ULCAC110-120V	4PDT	120	4170	Y	74K3939	14.44	12.72

DC COIL RELAYS, SOLDER/PLUG-IN TERMINALS

RY2S-UDC12V	DPDT	12	188	N	66M8482	8.17	7.20
RY22S-UDC12V	DPDT	12	188	N	14M8234	10.68	9.41
RY22S-UDC24V	DPDT	24	750	N	66F4221	10.68	9.41
RY2S-ULDC24V	DPDT	24	750	Y	14M8233	10.82	9.53
RY4S-UDC12V	4PDT	12	160	N	74K3935	8.61	7.59
RY4S-ULDC12V	4PDT	12	160	Y	74K3941	11.26	9.92
RY4S-UDC24V	4PDT	24	650	Y	48M0908	11.26	9.92
RY42S-UDC24V	4PDT	24	650	N	66M8484	14.73	12.98
RY4S-UDC24V	4PDT	24	650	N	74K3936	8.61	7.59
RY4S-ULDC24V*	4PDT	12	650	Y	74K3940	12.58	11.09
RY4S-UDC100-110V	4PDT	110	12100	N	74K3934	9.80	8.64
RY4S-ULDC100-110V	4PDT	110	12100	Y	75K1428	12.45	10.97

AC COIL RELAYS, PC BOARD TERMINALS

RY4V-UAC110-120V	4PDT	120	4170	N	74K3943	10.47	9.23
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DC COIL RELAYS, PC BOARD TERMINALS

RY4V-UDC12V	4PDT	12	160	N	96F3988	8.61	7.59
RY4V-UDC24V	4PDT	24	650	N	74K3944	8.61	7.59

*Includes check button

SOCKETS AND ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each	
			1-24	25-49
SY2S-05	2-Pole Standard DIN Rail Mount Socket	13M3019	5.20	4.58
SY2S-02F1	Hold-Down Spring for Use with SY2S-05	96F6503	0.28	0.25
SY2S-05C	2-Pole Finger-Safe DIN Rail Mount Socket	13M3020	6.27	5.52
SY2S-61	2-Pole PC Board Mount Socket	13M3021	1.40	1.24
SY4S-05	4-Pole Standard DIN Rail Mount Socket	13M3022	8.86	7.80
SY4S-05C	4-Pole Finger-Safe DIN Rail Mount Socket	13M3023	10.59	9.33
SY4S-02F1	Hold-Down Spring for Use with SY4S-05, -05C	96F6504	0.28	0.25
SY4S-51	2-Pole Panel Mount Socket	13M3024	1.26	1.11
SY4S-61	2- or 4-Pole PC Board Mount Socket	13M3025	1.40	1.24
SY4S-51F1	Hold-Down spring for Use with SY4S-51, 61	96F6507	0.28	0.25
SY4S-62	2- or 4-Pole PC Board Mount Socket	13M3026	1.40	1.24
SFA-202	Hold-Down Clip with Top Notch, for Use with SY2S-05C and SY4S-05C	16F5300	0.28	0.25
SFA-301	Hold-Down Clip with Top Notch, for Use with SY2S-61, 62 and SY4S-61, 62	31B3619	0.41	0.36
SFA-302	Hold-Down Clip with Top Notch, for Use with SY2S-51, 61 and SY4S-51, 61	16F5301	0.20	0.18
BNDN1000	35mm 1 Meter Low-Profile Aluminum DIN Rail with Holes	96F6501	8.15	7.18
BNL-5	DIN Rail Metal End Clip	66M8411	1.37	1.24

(4015)

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(148834)



PLUG-IN/INDUSTRIAL RELAYS – SQUARE

3A-15A MINIATURE POWER RELAYS

Just Added



Full Featured Cover



Plain Cover



Hermetically Sealed Relay



Full Featured Cover:

- Flag indicator for relay status in manual or powered condition
- LED lamp for coil "on" or "off" status
- Pushbutton for manual operation of relay without need for coil power
- Lock-down door when activated to hold pushbutton and contacts in operate position

Plain Cover:

- Dimensions: 1.40H x 1.06W x 0.83"D
- Flag indicator for relay status in manual or powered condition

Hermetically Sealed Relay:

- Class 1, Division 2 certification for hazardous locations
- Ideal for harsh environments

- ID tag for write-on surface
- Dimensions: 1.54"H x 1.06"W x 0.83"D
- Operating Temperature: -40°C to +70°C

- Plastic i.d. tag/write label
- Operating temperature: -40°C to +70°C

- Dimensions: 1.28"H x 0.91"W x 1.16"D
- Operating temperature: -40°C to +70°C

All relays below are UL listed when used with a Magnecraft socket.

15A DPDT PLUG-IN RELAYS

Full Featured	Plain Case with Flag	Coil Input Voltage	Coil Resist. (Ω)	Mating Socket	Full Featured		Plain Case with Flag	
					Stock No.	Price Each	Stock No.	Price Each
Mfg. Part No.	Mfg. Part No.					1-24		1-24
782XBXM4L-110/120A	782XBXC-110/120A	120VAC	4430	70-782D8-1	10M6525	6.78	...	...
782XBXM4L-12D	782XBXC-12D	12VDC	160		18C1606	8.12	72J4396	4.56
782XBXM4L-24A	782XBXC-24A	24VAC	72		10M6527	8.06	10M6520	10.61
782XBXM4L-24D	782XBXC-24D	24VDC	650		10M6528	8.51	72J4399	4.56
782XBXM4L-240A	...	240VAC	9100		10M6529	8.41	...	...

15A DPDT PC BOARD RELAYS

...	782XBXCT-110/120A	120VAC	4430	...	...	10M6522	10.61
...	782XBXCT-12D	12VDC	160	...	...	10M6523	10.12
...	782XBXCT-24D	24VDC	650	...	...	10M6524	10.12

10A 3PDT PLUG-IN RELAYS

782XCX2M4L-12D	782XCX2M4L-12D	12VDC	100	70-782EL11-1	69K5650	6.07	69K5650	6.07
782XCX2M4L-24D	782XCX2M4L-24D	24VDC	400		69K5653	7.73	69K5653	7.73
782XCX2M4L-24A	782XCX2M4L-24A	24VAC	103		69K5652	7.62	69K5652	7.62

3A 4PDT PLUG-IN RELAYS

782XD1M4L-110/120A	782XD1C-120A	120VAC	4430	70-782EL14-1	16M1130	6.05	16M1130	6.05
782XD1M4L-12D	782XD1C-12D	12VDC	160		10M6543	13.44	72J4427	4.56
...	782XD1C-24A	24VAC	180		...	...	72J4429	6.05
782XD1M4L-24D	782XD1C-24D	24VDC	650		10M6545	13.44	10M6541	10.12

10A 4PDT PLUG-IN RELAYS

782XD2M4L-110/120A	782XD2C-120A	120VAC	4430	70-782EL14-1	72J4451	6.78	16M1132	6.04
782XD2M4L-12D	...	12VDC	120		10M6548	7.69	...	...
782XD2M4L-240A	...	240VAC	15700		10M6552	10.20	...	...
782XD2M4L-24A	...	24VAC	180		10M6550	7.83	...	...
782XD2M4L-24D	782XD2C-24D	24VDC	650		10M6551	7.94	72J4445	5.78

3A 4PDT PLUG-IN BI-FURCATED RELAYS

782XD3M4L-12D	782XD3C-12D	12VDC	120	70-782EL14-1	10M6556	13.32	10M6554	11.40
782XD3M4L-24D	782XD3C-24D	24VDC	650		18C1641	13.38	72J4460	8.05
782XD3M4L-110/120A	...	120VAC	4430		72J4468	14.30	...	...

HERMETICALLY SEALED RELAYS

3A 4PDT

Mfg. Part No.	Dust Marking	Coil Input Voltage	Coil Resist. (Ω)	Mating Socket	Stock No.	Price Each		
						1-24	25-49	50-99
782DXH10-12D	KHS-17D11-12	12VDC	160	70-782EL14-1	10M6533	55.17	48.94	45.97
782DXH10-24D	KHS-17D11-24	24VDC	650		10M6536	53.24	48.14	45.97
782DXH10-110/125D	KHS-17D11-110	115VDC	11000		10M6532	97.52	87.28	81.94
782DXH10-120A	KHS-17A11-120	120VAC	3900		10M6531	73.74	66.00	61.96

5A 4PDT

782DXH21-12D	KHS-17D12-12	12VDC	160	70-782EL14-1	18M9800	60.34	54.85	50.30
782DXH21-24D	KHS-17D12-24	24VDC	650		10M9740	57.24	52.31	48.16
782DXH21-120A	KHS-17A12-120	120VAC	3900		10M6538	77.25	69.13	64.90

SOCKETS

Mfg. Part No.	Description	Contacts	Stock No.	Price Each
				1-14
70-782D8-1	8-pin, finger-safe, screw terminals, DIN/Panel mount	DPDT	21M6152	8.84
70-782EL11-1	11-pin, finger-safe, elevator terminals, DIN/Panel mount	3PDT	30M2639	7.58
70-782EL14-1	14-pin, finger-safe, elevator terminals, DIN/Panel mount	4PDT	69K5578	5.36

(80279)

PLUG-IN/INDUSTRIAL RELAYS – SQUARE

16A SQUARE BASE PLUG-IN RELAYS



Just Added



Plain Case



Flange Cover



Full Featured Cover

- 16A
- Accepts 3/16" Q.C. terminals
- Top flange cover and PC terminals available
- Flag indicator standard on all
- Full featured relays feature an LED lamp, push-button, lock-down door and write-on ID tag
- Dimensions: Plain (1.4"L x 1.37"W x 1.9"H); Flange (1.45"L x 1.37"W x 2.75"H); Full (1.4"L x 1.53"W x 2.1"H)
- UL listed when used with 70-788EL11-1, 70-463-1, 70-178-1
- UL recognized file no. E43641, CSA certified file no. 168986, CE compliant

PLAIN CASE RELAYS

Mfg. Part No.	Contacts	Coil Voltage	Resist. (Ω)	Style*	Stock No.	Price Each	
						1-24	25-49
788XAXC1-120A	SPDT	120VAC	1700	FM	16M1140	13.53	12.57
788XAXC1-12D	SPDT	12VDC	120	FM	16M1139	14.20	12.87
788XBXC-24A	DPDT	24VAC	72	SC	35M3542	15.04	13.98
788XBXC-24D	DPDT	24VDC	470	SC	35M3543	10.11	9.39
788XBXC-120A	DPDT	120VAC	1700	SC	16M1143	10.65	9.90
788XBXC1-120A	DPDT	120VAC	1700	FM	16M1145	15.04	13.96
788XBXC1-240A	DPDT	240VAC	7200	FM	16M1146	25.21	22.85
788XBXC-240A	DPDT	240VAC	7200	SC	35M3541	17.95	16.27
788XBXC-12D	DPDT	12VDC	120	SC	16M1142	14.30	13.28
788XBXC1-12D	DPDT	12VDC	120	FM	16M1144	14.37	13.34
788XBXC-24D	DPDT	24VDC	470	SC	13N3062	31.75	28.78
788XBXC-110D	DPDT	110VDC	10000	SC	16M1141	15.38	14.28
788XCXC-24A	3PDT	24VAC	72	SC	16M1148	12.93	12.00
788XCXC-120A	3PDT	120VAC	1700	SC	11M0786	12.58	11.68
788XCXC-12D	3PDT	12VDC	120	SC	16M1147	12.34	11.46
788XCXC-24D	3PDT	24VDC	470	SC	16M1149	17.43	16.17

PLAIN CASE RELAYS WITH LEADS

788XBXC1-120A	DPDT	120VAC	1700	SC	35M3544	17.40	15.77
788XBXC1-240A	DPDT	240VAC	7200	SC	35M3547	18.48	16.75

FULL-FEATURED RELAYS

788BXM4L-24A	DPDT	24VAC	72	FF	10M6572	12.50	12.00
788BXM4L-240A	DPDT	24VAC	7200	FF	22C6693	29.76	26.88
788BXM4L-12D	DPDT	12VDC	120	FF	22C6713	27.97	25.35
788BXM4L-24D	DPDT	24VDC	470	FF	10M6573	11.94	10.95
788CXM4L-24A	3PDT	24VAC	72	FF	10M6576	14.51	13.30
788CXM4L-120A	3PDT	120VAC	1700	FF	10M6575	10.42	9.55
788CXM4L-12D	3PDT	12VDC	120	FF	10M6574	33.27	30.16
788CXM4L-24D	3PDT	24VDC	470	FF	10M6577	20.11	18.45

*SC = Standard plain case; FM = Flange mount plain case; FF = Full-featured case (31882)

20-30A GENERAL-PURPOSE RELAYS



389F Flange Case



300 Flange Case

➤ CONTINUED ➤

20-30A GENERAL-PURPOSE RELAYS (CONT.)

389F Flange Cover:

- Flange-mount cover with flag standard
- For test button ; go online or call
- 1/4" quick-connect terminals
- Silver cadmium-oxide, gold-flashed contacts
- Operating power: 1.5W, 3.5VA
- Dimensions: 1.40"L x 1.53"W x 2.90"H
- UL recognized file no. E43641, CSA certified file no. 407878

300 Flange Cover:

- Flange-mount cover with flag standard
- 30A at 300VAC/28VDC; 15A at 600VAC
- 1/4" quick-connect terminals
- Operating temperature: -30°C to +60°C for DC coil
- Dimensions: 1.40"L x 1.53"W x 2.90"H
- UL recognized file no. E43641, CSA certified file no. 407878

389F SERIES

Mfg. Part No.	Contact Carry Current (A)	Contacts	Coil Voltage	Coil Resist. (Ω)	Cover	Stock No.	Price Each
							1-24
389FXCXC1-120A	25	3PDT	120VAC	1700	Flange	35M3535	27.20
389FXCXC1-240A	25	3PDT	240VAC	400	Flange	35M3539	18.47
389FHXC1-120A	30	SPST-NO-DM	120VAC	1100	Flange	35M3521	13.34
389FXCXC1-12D	25	3PDT	12VDC	100	Flange	35M3534	25.95
389FXCXC1-24D	25	3PDT	24VDC	400	Flange	35M3538	25.95
389FHXC1-24D	30	SPST-NO-DM	24VDC	400	Flange	35M3524	10.43

300 SERIES

300BXC1-24D	30	DPDT	24VDC	300	Flange	18C2148	14.33
300BXC1-24A	30	DPDT	24VAC	54	Flange	46F5381	15.03
300BXC1-120A	30	DPDT	120VAC	1270	Flange	18C1562	14.52
300BXC4-24D	30	DPDT	24VDC	300	DIN	81C9290	16.93
300BXC4-120A	30	DPDT	120VAC	1270	DIN	81C9288	15.96

(4027)

20A SPDT MINIATURE PLUG-IN RELAYS



Just Added

- Flag indicator for manual vs. powered condition
- LED indicator for coil ON vs. OFF status
- Pushbutton for manual operation
- Write-on ID tag
- Plug-in socket mount termination
- Removable lock-down door



Contact rating: 20A up to 277VAC, 28VDC. Operating temperature: -45°C to +70°C. Dimensions: 1.08"L x 0.55"W x 1.52"H. Polycarbonate dust cover. Mates with 70-781D5-1A screw terminal finger-safe socket. UL recognized file no. E43641, CSA certified file no. 97899. PC board mount versions also available; go online or call.

Mfg. Part No.	Coil Voltage	Coil Resistance (Ω)	Stock No.	Price Each		
				1-24	25-49	50-99
781XAXM4L-24A	24VAC	180	69K5629	7.79	7.14	6.71
781XAXM4L-120A	120VAC	4430	69K5625	7.79	7.14	6.71
781XAXM4L-240A	240VAC	15720	69K5631	8.52	7.81	7.34
781XAXM4L-12D	12VDC	180	69K5627	6.24	5.79	5.41
781XAXM4L-24D	24VDC	750	69K5630	7.94	7.28	6.84

(57671)

5A-10A ULTRA-HIGH SENSITIVITY RELAYS



Standard Case



Hermetically Sealed Relay

- High reliability up to 500k operations
- Ultra-high sensitivity and quick response
- Ideal for switching multiple loads with one compact device
- Vibration and shock resistant

Flange mount, PC board mount and other coil voltages available; go online or call. All mfg. part no. shown below are plug-in/solder termination. "S" suffix indicates manufactured on automated production line. Items without "S" suffix are equivalent. CR in mfg. part no. indicates built-in surge suppression.

➤ CONTINUED ➤

PLUG-IN/INDUSTRIAL RELAYS – SQUARE

5A-10A ULTRA-HIGH SENSITIVITY RELAYS (CONT.)

RELAYS

Mfg. Part No.	Carry Current (A)	Contacts	Coil Input Voltage	Coil Resist. (Ω)	LED Ind.	Stock No.	Price Each
							1-24
● MY2 DC12(S)	10	DPDT	12VDC	160	N	36K3444	4.25
● MY2N DC12(S)	10	DPDT	12VDC	160	Y	36K7572	4.76
● MY2-02-DC24	10	DPDT	24VDC	636	N	96B2719	7.79
● MY2 DC24(S)	10	DPDT	24VDC	636	N	36K3445	4.25
● MY2N DC24(S)	10	DPDT	24VDC	636	Y	48F3641	4.76
● MY2N-AC24(S)	10	DPDT	24VAC	180	Y	48F3639	4.76
● MY2 AC110/120(S)	10	DPDT	110/120VAC	4430	N	67K9437	4.41
● MY2 AC220/240(S)	10	DPDT	220/240VAC	18790	N	48F3633	4.98
● MY2N AC110/120(S)	10	DPDT	110/120VAC	4430	Y	36K2001	4.92
● MY2N-AC220/240(S)	10	DPDT	220/240VAC	18790	Y	48F3638	5.53
● MY3-DC24	...	3PDT	24VDC	650	N	83F5411	11.60
● MY4 DC12(S)	5	4PST	12VDC	160	N	36K7575	5.98
● MY4 DC24(S)	5	4PDT	24VDC	636	N	36K3446	5.08
● MY4N DC 24(S)	5	4PDT	24VDC	636	Y	36K2003	5.63
● MY4N AC24(S)	5	4PDT	24VAC	180	Y	48F3649	5.63
● MY4N DC100/110(S)	5	4PDT	100/110VDC	11100	Y	35K4772	6.40
● MY4 AC110/120(S)	5	4PDT	110/120VAC	4430	N	36K2002	5.21
● MY4-02-AC110/120	5	4PDT	110/120VAC	4430	N	52F3753	5.45
● MY4N AC110/120(S)	5	4PDT	110/120VAC	4430	Y	35K4771	5.72
● MY4 AC220/240(S)	5	4PDT	220/240VAC	18790	N	36K7573	5.60
● MY4N AC220/240(S)	5	4PDT	220/240VAC	18790	Y	48F3648	6.40

RELAYS WITH BUILT-IN CR (SURGE SUPPRESSION)

● MY2N-CR AC110/120 (S)	10	DPDT	110/120VAC	4430	Y	89C7499	12.06
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RELAYS WITH BUILT-IN DIODE

● MY2N-D2-DC24S	10	DPDT	24VDC	636	Y	67K9439	9.52
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RELAYS WITH TEST BUTTON

● MY4IN DC24 (S)	5	4PDT	24VDC	636	Y	36K7576	5.95
● MY4IN AC110/120 (S)	5	4PDT	110/120VAC	4430	Y	96B9383	6.05

RELAYS WITH BUILT-IN DIODE

● MY4N-D2-DC24S	5	4PDT	24VDC	636	Y	67K9443	10.55
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RELAYS WITH BUILT-IN CR (SURGE SUPPRESSION)

● MY4N-CR AC110/120 (S)	5	4PDT	110/120VAC	4430	Y	36K7577	13.08
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BIFURCATED RELAYS

● MY4Z DC24(S)	5	4PDT	24VDC	636	Y	33K3876	9.03
● MY4ZN DC24(S)	5	4PDT	24VDC	636	Y	36K7578	10.55
● MY4Z-AC110/120	5	4PDT	110/120VAC	4430	Y	52F3763	8.26
● MY4ZN AC110/120(S)	5	4PDT	110/120VAC	4430	Y	48F3653	10.74

BIFURCATED RELAYS WITH BUILT-IN DIODE

● MY4ZN-D2 DC24(S)	5	4PDT	24VDC	636	Y	36K2004	12.86
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HERMETICALLY SEALED RELAYS

● MY4H-DC12	3	4PDT	12VDC	160	N	29C7719	32.51
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BIFURCATED HERMETICALLY SEALED RELAYS

● MY4H-US DC24	3	4PDT	24VDC	650	N	30C8279	36.06
● MY4H-US AC110/120	3	4PDT	110/120VAC	4430	N	18M9249	36.06

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each	
			1-49	50-99
● PYF14A-E	DIN Track/Screw Mount Socket, Coil Screw Terminals on Bottom 4-Pole	52F3770	6.44	6.03
● PYF14A-N	DIN Track/Screw Mount Socket, Coil Screw Terminals on Top, 4-Pole	35K4859	8.30	7.74
● PYF08A-E	DIN Track/Screw Mount Socket, Coil Screw Terminals on Bottom, 2-Pole	36K2031	4.87	4.56
● PYF08A-N	DIN Track/Screw Mount Socket, Coil Screw Terminals on Top, 2-Pole	89C7783	5.83	5.25
● PYF08A	DIN-Track/Screw Mount Socket Front-Connecting Socket 2-pole	89C7782	4.58	4.27
● PY08-02	Back Connecting, PCB Terminal Socket, 2 Pole	35K4860	1.94	1.81
● PY08	Back-Mounting Socket Solder Terminals w/o Clip (2 Poles)	36K3464	1.19	1.12
● PYF11A	Track Mounting Socket 2-pole	50B6396	9.19	8.28
● PY14-02	Back Connecting, PCB Terminal Socket, 4 Pole	36K7593	2.12	1.99
● PYF14A	Track Mounting/Front Connecting Socket 4-pole	36K2032	6.86	6.40
● PYF14S	Screwless Clamp Terminal Socket, 4 Pole	89C7789	9.43	8.85
● PY14	Back-Mounting Socket Solder Terminals w/o Clip (4 Poles)	35K3221	2.12	1.99
● PYC-A1	Hold-Down Clip for PYF08A-E and PYF14A-E Sockets	36K7592	0.25	0.23
● PYC-P	Hold-Down Clip For Back Connecting, PCB Terminal Sockets	17M7537	0.23	0.21

DIN RAIL TRACK AND ACCESSORIES

● PFP-50N	Mounting Rail (length = 500mm)	93B2043	4.72	4.51
● PFP-100N	Mounting Rail (length = 1000mm)	17M7511	5.92	5.55
● PFP-100N2	Mounting Rail (length = 1000mm)	34K8630	12.62	11.83
● PFP-M	End Plate	36K3451	0.75	0.72
● PFP-S	Spacer	17M7510	0.44	0.43

➔ CONTINUED ➔

5A-10A ULTRA-HIGH SENSITIVITY RELAYS (CONT.)

21PC ACCESSORY KIT FOR MY SERIES RELAYS

Mfg. Part No.	Kit Contents	Stock No.	Price Each	
			1-24	25-49
K-MYA	(3) PY08: Socket Solder Back Conn 8 (3) PY08-02: Socket PCB Back Conn 8 (3) PY14: Socket Solder Back Conn 14 (3) PY14-02: Socket PCB Back Conn 14 (6) PYC-P: Hold Down Clip One 5mm (3) PYC-P2: Hold Down Clip One 10mm	05N1684	32.98	30.77

28PC MY SERIES RELAY AND ACCESSORY KIT

K-814	(1) 12-PF07: DIN Rail 35mm Wide 70mm Long (1) 12-PF14: DIN Rail 35mm Wide 140mm Long (1) MY2-AC110/120-S: 115V AC Relay, 2-pole (1) MY2-DC12-S: 12V Relay, 2-pole (1) MY4-AC110/120-S: 115V AC Relay 4-pole (1) MY4-DC12-S: 12V DC Relay 4-pole (2) PFP-M: End Plate for DIN Rail (2) PFP-S: Spacer for Relays 34.8mm (1) PY08: Socket Solder Back Conn 8 (1) PY14: Socket Solder Back Conn 14 (10) PYC-A1: Hold Down Clip Two (6) PYC-E1: Hold Down Clip Two Offset	05N1685	156.72	146.21
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10A-15A PLUG-IN RELAYS



- Available in 4 contact configurations
- Available in plug-in, flange mount and PC board mounting styles
- Arc barrier equipped
- Dielectric strength: 2,000VAC
- AgCdO contacts
- AC models: 50 million operations min.
- DC models: 100 million operations min.



Plug-In

Flange Mount

UL recognized, CSA certified. Additional accessories available (mfg. part no. PT14 back connecting solder terminal socket and mfg. part no. PT14-0 back connecting PCP terminal socket); go online or call.

10A PLUG-IN

Mfg. Part No.	Contacts	Coil Input Voltage	Coil Resist. (Ω)	LED Indicator	Stock No.	Price Each	
						1-24	25-49
● LY2-AC12	DPDT	12VAC	46	No	89C7012	7.57	
● LY2-AC24	DPDT	24VAC	46	No	36K7544	5.83	
● LY2N-AC24	DPDT	24VAC	180	Yes	35K3208	10.16	
● LY2-AC100/110	DPDT	100/110VAC	3750	No	26C1908	6.56	
● LY2N-AC100/110	DPDT	100/110VAC	3750	Yes	34K7878	8.81	
● LY2-AC110/120	DPDT	110/120VAC	4430	No	36K7543	6.86	
● LY2N-AC110/120	DPDT	110/120VAC	4430	Yes	36K1998	9.20	
● LY2N-AC200/220	DPDT	200/220VAC	12950	Yes	84C9820	9.20	
● LY2-AC220/240	DPDT	220/240VAC	18790	No	52F3792	6.47	
● LY2N-AC220/240	DPDT	220/240VAC	18790	Yes	35K3207	10.63	
● LY2-DC6	DPDT	6VDC	40	No	67K9411	6.56	
● LY2-DC12	DPDT	12VDC	160	No	36K7546	5.83	
● LY2N-DC12	DPDT	12VDC	160	Yes	36K7550	12.10	
● LY2-DC24	DPDT	24VDC	650	No	35K4715	5.83	
● LY2N-DC24	DPDT	24VDC	650	Yes	67K9413	8.52	
● LY2-D-DC24	DPDT	24VDC	650	No	36K7545	14.34	
● LY2N-D2-DC24*	DPDT	24VDC	650	Yes	93B9478	15.11	
● LY2-DC48	DPDT	48VDC	2600	No	51B758	9.61	
● LY3-AC24	3PDT	24VAC	100	No	35K3209	11.97	
● LY3-AC120	3PDT	120VAC	2450	No	36K3430	10.37	
● LY3N-AC110/120	3PDT	120VAC	2200	Yes	67K9414	17.10	
● LY3-DC12	3PDT	12VDC	107	No	35K3210	12.03	
● LY3-DC24	3PDT	24VDC	410	No	36K7551	9.38	
● LY4-AC24	4PDT	24VAC	78	No	36K7552	12.10	
● LY4-AC120	4PDT	120VAC	2200	No	36K1999	9.30	
● LY4N-AC120	4PDT	120VAC	2200	Yes	36K7555	15.02	
● LY4-AC240	4PDT	240VAC	9000	No	36K7553	14.97	
● LY4-DC12	4PDT	12VDC	100	No	36K3431	10.93	
● LY4N-AC24	4PDT	24VAC	78	Yes	22C9544	19.17	
● LY4-DC24	4PDT	24VDC	350	No	36K7554	10.93	
● LY4N-DC24	4PDT	24VDC	650	Yes	91B9452	19.77	
● LY4N-D2-DC24*	4PDT	24VDC	650	Yes	93B3226	21.17	
● LY4-DC48	4PDT	48VDC	2600	No	35K4717	10.47	

15A PLUG-IN

● LY1-AC24	SPDT	24VAC	180	No	36K7540	6.10	
● LY1-AC110/120	SPDT	110/120VAC	4430	No	36K7539	6.10	

➔ CONTINUED ➔

PLUG-IN/INDUSTRIAL RELAYS – SQUARE

10A-15A PLUG-IN RELAYS (CONT.)

15A PLUG-IN

Mfg. Part No.	Contacts	Coil Input Voltage	Coil Resist. (Ω)	LED Indicator	Stock No.	Price Each
● LY1N-AC110/120	SPDT	110/120VAC	4430	Yes	10M5236	14.15
● LY1-DC12	SPDT	12VDC	160	No	60K6197	5.83
● LY1-DC24	SPDT	24VDC	650	No	36K1996	5.83

10A FLANGE MOUNT

● LY2F-AC24	DPDT	24VAC	180	No	36K7548	7.00
● LY2F-AC110/120	DPDT	110/120VAC	4430	No	35K4716	9.21
● LY2F-AC220/240	DPDT	220/240VAC	18790	No	36K3429	7.46
● LY2F-DC12	DPDT	12VDC	160	No	67K9412	7.00
● LY2F-DC24	DPDT	24VDC	650	No	36K7549	5.95
● LY3F-AC24	3PDT	24VAC	180	No	92B4050	11.97
● LY3F-DC24	3PDT	24VDC	410	No	25H9906	11.97
● LY4F-DC12	4PDT	12VDC	100	No	89C7098	13.95
● LY4F-DC24	4PDT	24VDC	350	No	89C7099	13.95
● LY4FAC24	4PDT	24VAC	78	No	24C9738	10.47
● LY4F-AC120	4PDT	120VAC	2200	No	89C7096	13.95

15A FLANGE MOUNT

● LY1F-AC24	SPDT	24VAC	180	No	52F3780	6.86
● LY1F-AC110/120	SPDT	110/120VAC	4430	No	36K7542	6.21
● LY1F-AC220/240	SPDT	220/240VAC	18790	No	35K3204	9.08
● LY1F-DC12	SPDT	12VDC	160	No	35K3205	5.22
● LY1F-DC24	SPDT	24VDC	650	No	67K9410	6.20

10A PC BOARD

● LY2-0-AC24	DPDT	24VAC	180	No	36K7547	7.58
● LY2-0-AC110/120	DPDT	110/120VAC	4430	No	88M3299	6.85
● LY2-0-DC12	DPDT	12VDC	160	No	36K1997	7.57
● LY2-0-DC24	DPDT	24VDC	650	No	35K3206	6.85
● LY2-0-DC100/110	DPDT	100/110VDC	11000	No	27C1841	9.42
● LY4-0-DC12	4PDT	12VDC	100	No	89C7092	10.47
● LY4-0-DC24	4PDT	24VDC	350	No	93B6745	15.34
● LY4-0-AC120	4PDT	120VAC	22200	No	36K3432	10.47

15A PC BOARD

● LY1-0-DC12	SPDT	12VDC	160	No	35K3203	6.75
● LY1-0-DC24	SPDT	24VDC	650	No	89C6997	7.69
● LY1-0-DC24	SPDT	24VDC	650	No	88M3298	6.75

* With diode surge suppression.

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each		
			1-49	50-99	100-249
● PF113A-E	40" (101.60cm) DIN Rail Socket Mounting Track	36K2011	5.23	4.91	4.68
● PFP-100N	20" (50.80cm) DIN Rail Socket Mounting Track	17M7511	5.92	5.55	5.30
● PFP-50N	End Plate	93B2043	4.72	4.51	4.31
● PT08	Back Connecting, Solder Terminal for SPDT or DPDT Relays	67K9452	1.87	1.76	1.68
● PT08-0	Back Connecting PCB Terminal Socket for SPDT or DPDT Relays	52F3807	1.44	1.35	1.29
● PTF08A-E	Track Mounted Socket for SPDT or DPDT Relays	17M7530	4.19	3.93	3.75
● PTF11A	Track Mount Socket for 3PDT Relays	36K2012	8.11	7.61	7.26
● PTF14A-E	Track Mount Socket for 4PDT Relays	36K2013	5.95	5.58	5.33
● PYC-A1	Hold-Down Clip (Standard) for SPDT or DPDT Track Mounted Sockets	36K7592	0.25	0.23	0.22
● PYC-P	Hold-Down Clip (Standard) for SPDT or DPDT Back Connecting Sockets	17M7537	0.23	0.21	0.20

10PC ACCESSORY KIT LY SERIES

Mfg. Part No.	Kit Contents	Stock No.	Price Each		
			1-24	25-49	50-99
K-LYA	(3) PT08: Socket Solder Back Conn 8 (3) PT08-0: Socket PCB Back Conn 8 (1) PT11: Socket Solder Back Conn 11 (1) PT11-0: Socket PCB Back Conn 11 (1) PT14: Socket Solder Back Conn 14 (1) PT14-0: Socket PCB Back Conn 14	05N1683	28.95	27.01	25.88

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Expert technical support

Chat online to our team of engineers, or connect to them through your representative.

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10A GENERAL-PURPOSE PLUG-IN RELAYS



- Interlocked frame-and-contact block prevents contact misalignment during plug-in
- Rugged power driver offers superior 3/16" through-air and 3/8" over-surface spacing
- 1/2HP motor controller applications @ 240, 480 and 600VAC or 1/2HP @ 120VAC



Plain Case



Flange Mount

MJ series are 10A general-purpose plug-in relays. Plain case: 48.38(1.905)H x 38.73(1.525)W x 35.56"(1.400)mmL. Flange: 73.66(2.90)H x 38.73(1.525)W x 35.56"(1.400)mmL. UL recognized, CSA certified. For use with PTF series sockets, order separately below. Latching versions and units with manual operator, push-to-operate button and LED indicator are also available; go online or call.

AC COIL RELAYS

Mfg. Part No.	Contacts	Carry Current (A)	Coil Voltage (VAC)	Mounting	Stock No.	Price Each		
						1-24	25-49	50-99
● MJN2CF-AC24	DPDT	10	24	Flange	14C4229	13.17	12.77	12.13
● MJN2C-AC120	DPDT	10	120	Plug In	14C4221	9.86	9.25	8.84
● MJN2C-E-AC120	DPDT	20	120	Plug In	89C7213	11.25	10.60	10.08
● MJN3C-AC24	3PDT	10	24	Plug In	14C4214	10.84	10.15	9.71
● MJN3CF-AC24	3PDT	10	24	Flange	14C4222	11.41	10.70	10.22
● MJN3C-AC120	3PDT	10	120	Plug In	14C4217	11.40	10.69	10.22
● MJN3CF-AC120	3PDT	10	120	Flange	14C4227	11.29	10.59	10.12
● MJN3C-N-AC120	3PDT	10	120	Plug In	89C7262	12.96	12.16	11.61

DC COIL RELAYS

Mfg. Part No.	Contacts	Carry Current (A)	Coil Voltage (VDC)	Mounting	Stock No.	Price Each		
						1-24	25-49	50-99
● MJN2C-DC12	DPDT	10	12	Plug In	14C4220	9.80	9.19	8.77
● MJN2CE-DC12	DPDT	20	12	Plug In	89C7235	12.69	11.90	11.36
● MJN2CF-DC12	DPDT	10	12	Flange	14C4231	9.42	8.84	8.45
● MJN2C-DC24	DPDT	10	24	Plug In	14C4219	12.02	10.82	9.61
● MJN2CE-DC24	DPDT	20	24	Plug In	89C7236	11.36	10.65	10.17
● MJN2CF-DC24	DPDT	10	24	Flange	14C4233	11.68	10.96	10.46
● MJN3C-DC12	3PDT	10	12	Plug In	14C4216	10.14	9.51	9.07
● MJN3C-DC24	3PDT	10	24	Plug In	14C4215	8.61	8.08	7.71
● MJN3CF-DC24	3PDT	10	24	Flange	14C4224	10.91	10.23	9.77

SOCKETS

11-pin square sockets. Rated 300VAC @ 10A, 150VAC @ 15A. For use with hold-down springs mfg. part nos. PYMJN-PCB and PYMJN-S. UL recognized, CSA certified.

Mfg. Part No.	Terminals	Dimensions (L x W x D)	Stock No.	Price Each	
				1-24	25-49
● PTF11PC	Screw, DIN Mount	3.000 x 1.550 x 1.030"	26M8294	7.90	7.41
● PTF11QDC	Quick-Connect	2.030 x 1.50 x 0.422"	14C4243	1.84	1.66
● PTF21PC	Screw	3.146 x 1.638 x 0.880"	17M7531	7.23	6.77
● PTFPCB	PC Board	2.030 x 1.50 x 0.317"	14C4251	1.70	1.53

(56270)

PLUG-IN POWER RELAYS



- Environmental friendly (Cd, Pb free)
- Lockable test button models now available
- Built-in mechanical operation indicator
- Provided with nameplate
- AC type is equipped with a coil-disconnection self-diagnostic function (LED type)
- High switching power (1-pole: 10A)
- LED indicators, test button, and diode available
- Wide range of sockets also available; go online or call



AC COIL, SPST, 10A

Mfg. Part No.	Coil Voltage (VAC)	Coil Resist. (Ω)	Features	Stock No.	Price Each	
					1-49	50-99
● G2R-1-S-AC24(S)	24	253	...	08J0936	5.92	5.57
● G2R-1-SN-AC24(S)	24	253	LED Indicator	08J0953	9.60	8.65
● G2R-1-SN-AC110(S)	110	5566	LED Indicator	08J0950	9.48	8.89
● G2R-1-S-AC120(S)	120	7286	...	08J0934	6.37	5.97
● G2R-1-SN-AC-120(S)	120	7286	LED Indicator	08J0949	11.03	9.28
● G2R-1-S-AC240(S)	240	30360	...	08J0937	13.90	12.51
● G2R-1-SN-AC240(S)	240	30360	LED Indicator	08J0954	16.89	14.20

➔ CONTINUED ➔

PLUG-IN/INDUSTRIAL RELAYS – SQUARE

PLUG-IN POWER RELAYS (CONT.)

AC COIL, DPDT, 5A

Mfg. Part No.	Coil Voltage (VAC)	Coil Resist. (Ω)	Features	Stock No.	Price Each		
					1-49	50-99	
● G2R-2-S-AC12(S)	12	253	...	08J0970	7.60	6.39	
● G2R-2-S-AC24(S)	24	253	...	08J0973	6.59	6.18	
● G2R-2-SN AC24(S)	24	253	Indicator Light	08J0985	11.11	9.34	
● G2R-2-S-AC110(S)	110	5566	...	08J0969	7.78	6.54	
● G2R-2-SN-AC110(S)	110	5566	Indicator Light	08J0989	11.92	10.03	
● G2R-2-S-AC120(S)	120	7286	...	08J0971	6.04	5.67	
● G2R-2-SN AC120(S)	120	7286	Indicator Light	08J0984	11.92	10.03	
● G2R-2-S-AC240(S)	240	30360	...	08J0974	14.86	13.38	
● G2R-2-SN AC240(S)	240	30360	Indicator Light	08J0986	18.13	15.25	

DC COIL, SPDT, 10A

Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Features	Stock No.	Price Each	
					1-24	25-49
● G2R-1-S-DC6(S)	6	69	...	08J0943	5.75	5.18
● G2R-1-SN-DC6(S)	6	69	LED Indicator	08J0961	9.39	8.45
● G2R-1-SND-DC6(S)	6	69	Indicator Light&Diode	08J0965	10.74	9.03
● G2R-1-S-DC12(S)	12	278	...	08J0939	4.45	4.17
● G2R-1-SD-DC12(S)	12	278	Diode	08J0946	7.11	5.98
● G2R-1-SN-DC12(S)	12	278	LED Indicator	08J0957	9.39	8.45
● G2R-1-SND-DC12(S)	12	278	Indicator Light&Diode	08J0962	10.14	9.50
● G2R-1-S-DC24(S)	24	1113	...	08J0940	3.79	3.56
● G2R-1-SD DC24(S)	24	1113	Diode	08J0944	7.11	5.98
● G2R-1-SN-DC24(S)	24	1113	LED Indicator	08J0958	7.26	6.81
● G2R-1-SNDI DC24(S)	24	1113	Indicator Light&Diode	08J0966	11.32	9.52
● G2R-1-SNI DC24(S)	24	1113	Indicator Light&Test Button	08J0967	8.27	6.95

DC COIL, DPDT, 5A

● G2R-2-S-DC6(S)	6	69	...	08J0980	6.70	6.04
● G2R-2-SND-DC6(S)	6	69	Indicator Light&Diode	08J0993	12.16	10.22
● G2R-2-S-DC12(S)	12	278	...	08J0976	4.34	4.07
● G2R-2-SND-DC12(S)	12	278	Indicator Light&Diode	08J0990	11.71	9.84
● G2R-2-S-DC24(S)	24	1113	...	08J0977	5.10	4.76
● G2R-2-SD-DC24(S)	24	1113	Diode	08J0981	8.07	6.79
● G2R-2-SND-DC24(S)	24	1113	Indicator Light&Diode	08J0991	10.15	9.53
● G2R-2-SNDI DC24(S)	24	1113	Indicator Light&Diode	08J0994	12.87	10.82
● G2R-2-SNI DC24(S)	24	1113	Indicator Light&Test Button	08J0995	8.09	7.58
● G2R-2-SN DC48(S)	48	4220	Indicator Light	08J0987	10.66	8.97

(79371)

5-10A PLUG-IN RELAYS



Panasonic Electric Works Corporation of America



- High reliability - min. 10⁸ mechanical operations (DC type)
- Low to high level loads (100µA to 10µA)
- LED and latching version available
- Sealed types and bifurcated contacts available



AC COIL RELAYS

Mfg. Part No.	Contacts	Carry Current (A)	Coil Voltage (VAC)	No. of Pins	LED	Stock No.	Price Each		
							1-24	25-49	50-99
● HC1-H-AC24V-F	SPDT	10	24	5	No	45M7096	8.23	7.62	6.37
● HC1-H-AC120V-F	SPDT	10	120	5	No	45M7095	9.65	8.93	7.46
● HC1-HL-AC120V-F	SPDT	10	120	5	Yes	08N1777	12.84	11.88	9.92
● HC1-H-AC240V-F	SPDT	10	240	5	No	86K9349	11.99	11.10	9.27
● HC2-H-AC24V-F	DPDT	7	24	8	No	45M7099	9.74	9.01	7.53
● HC2-H-AC120V-F	DPDT	7	120	8	No	45M7098	12.19	11.28	9.42
● HC2-HL-AC120V-F	DPDT	7	120	8	Yes	08N1779	12.84	11.88	9.92
● HC2-H-AC240V-F	DPDT	7	240	8	No	78M7405	14.13	13.08	10.93
● HC3-H-AC24V-F	3PDT	7	24	11	No	45M7102	10.62	9.83	8.21
● HC3-H-AC120V-F	3PDT	7	120	11	No	45M7101	11.98	11.09	9.26
● HC3-HL-AC120V-F	3PDT	7	120	11	Yes	46M2821	17.38	15.11	11.94
● HC3-H-AC240V-F	3PDT	7	240	11	No	45M7103	13.63	12.62	10.54
● HC4-H-AC24V	4PDT	5	24	14	No	64K3141	12.36	11.44	9.56
● HC4-H-AC120V	4PDT	5	120	14	No	08N1782	13.96	12.92	10.79
● HC4-HL-AC120V	4PDT	5	120	14	Yes	08N1783	12.81	11.85	9.90
● HC4-H-AC240V	4PDT	5	240	14	No	51F3722	14.70	13.60	11.36

➔ CONTINUED ➔

5-10A PLUG-IN RELAYS (CONT.)

DC COIL RELAYS

Mfg. Part No.	Contacts	Carry Current (A)	Coil Voltage (VAC)	No. of Pins	LED	Stock No.	Price Each		
							1-24	25-49	50-99
● HC1-H-DC12V-F	SPDT	10	12	5	No	45M7097	8.84	8.18	6.83
● HC1-H-DC24V-F	SPDT	10	24	5	No	86K9350	8.77	8.11	6.78
● HC1-HL-DC24V-F	SPDT	10	24	5	Yes	08N1778	12.84	11.88	9.92
● HC2-H-DC12V-F	DPDT	7	12	8	No	45M7100	9.74	9.01	7.53
● HC2-H-DC24V-F	DPDT	7	24	8	No	86K9354	9.74	9.01	7.53
● HC2-HL-DC24V-F	DPDT	7	24	8	Yes	08N1780	12.84	11.88	9.92
● HC3-H-DC12V-F	3PDT	7	12	11	No	45M7104	10.62	9.83	8.21
● HC3-H-DC24V-F	3PDT	7	24	11	No	45M7105	10.62	9.83	8.21
● HC3-HL-DC24V-F	3PDT	7	24	11	Yes	08N1781	20.74	19.20	16.03
● HC4-H-DC12V	4PDT	5	12	14	No	64K3142	12.36	11.44	9.56
● HC4-H-DC24V	4PDT	5	24	14	No	64K3143	12.36	11.44	9.56
● HC4-HL-DC24V	4PDT	5	24	14	Yes	50B859	15.67	14.50	12.11

DIN RAIL TERMINAL SOCKETS

Mfg. Part No.	Compatible Models	Stock No.	Price Each	
			1-24	25-49
● HC2-SFD-K	HC2-H	50F4188	5.40	5.00
● HC3-SFD-K	HC2-H, HC3-H	10C5929	6.76	6.26
● HC4-SFD-K	HC1-H, HC2-H, HC4-H	64K3145	8.62	7.98
● HL2-PS-K	HL2 Series Relays	51F3776	1.83	1.69
● HC3-PS-K	HC3 Series Relays	10C5927	1.77	1.64

(88572)

INDUSTRIAL SEQUENCING (STEPPER) RELAYS



- 5A rated DPDT contacts
- Transfer-on-energize or transfer-on-release available
- Custom cam sequences available (up to 8 steps)
- Seismic qualified integral hold-down clip
- 5 million operations - mechanical
- Encapsulated coil

RELAYS

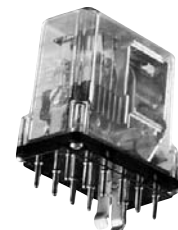
Mfg. Part No.	Contact Transfer	Coil Voltage	Coil Resist. (Ω)	Stock No.	Price Each	
					1-24	
A311XBP-120VAC	When Coil is Energized	120VAC	540	29F2873	333.32	
A311XBP-125VDC	When Coil is Energized	-125VDC	6200	88K3170	333.32	
A311XBP-120VAC	When Coil is De-energized	120VAC	540	29F2874	334.85	
A311XBP-24VDC	When Coil is De-energized	24VDC	250	88K3179	334.85	
A311XBP-125VDC	When Coil is De-energized	-125VDC	6200	88K3178	334.85	

SOCKETS

Mfg. Part No.	Description	Stock No.	Price Each	
			1-9	
27390	12-Pin Panel Mount with Screw Terminals & Clamping Plates	60F3117	13.73	
27390D	12-Pin DIN Mount with Screw Terminals & Clamping Plates	69H8902	15.75	

Lamp (L) and coil suppression (V) among options available (example 311XBPLV-24VDC) (4038)

10A INDUSTRIAL RELAYS



- 10A carry / 30A make
- Multiple / Custom contact configurations up to 6 pole
- Blowout magnets available for DC switching
- Seismic qualified integral hold-down clip
- Nuclear versions available
- Continuous duty rated

UL listed when used with mating sockets 27390(D) for 12 pin or 33377(D) for 14 pin.

Mfg. Part No.	Coil Input Voltage	Contacts	Coil Resist. (Ω)	Indicator Light	Stock No.	Price Each	
						1-5	
219XBP-24VAC	24VAC	DPDT	16	N	94F720	218.79	
219XBP-120VAC	120VAC	DPDT	540	N	64K0659	179.78	
219XBP-24VDC	24VDC	DPDT	250	N	69H8831	128.00	

➔ CONTINUED ➔

PLUG-IN/INDUSTRIAL RELAYS – SQUARE

10A INDUSTRIAL RELAYS (CONT.)

Mfg. Part No.	Coil Input Voltage	Contacts	Coil Resist. (Ω)	Indicator Light	Stock No.	Price Each
219XBXP-115/125D	125VDC	DPDT	6200	N	69H8830	175.03
219XBXP-125VDC	125VDC	DPDT	6200	Y /Manual Actuator	90F1402	133.29
219DXP-120A	120VAC	4PDT	540	N	60F3053	201.08
219DXPLM-120AC	120VAC	4PDT	540	Y /Manual Actuator	70B3891	334.37
219DXP-240VAC	240VAC	4PDT	2100	N	98F3108	301.04
219DXP-24D	24VDC	4PDT	250	N	60F3050	201.08
219DXP-115/125D	125VDC	4PDT	6200	N	69H8832	234.47
219FXP-120A	120VAC	6PST-NO	540	N	60F3054	201.08
219FXP-24D	24VDC	6PST-NO	250	N	60F3051	293.09
219ABAP-120VAC	120VAC	DPDT-NO/NC	540	N	60F3106	179.84
219ABAP-120VAC	120VAC	DPDT-NO/NC	540	Y	60F3193	226.22
219ABAP-24D	24VDC	DPDT-NO/NC	250	N	60F3107	165.72
219ABAP-115/125D	125VDC	DPDT-NO/NC	6200	N	60F3108	209.71
219BBXP 120VAC	120VAC	DPDT-NO	540	N	60F3103	108.13
219BBXP-120VAC	120VAC	DPDT-NO	540	Y	60F3194	144.92
219BBXPLM-120VAC	120VAC	DPDT-NO	540	Y /Manual Actuator	94F1906	125.16
219BBXP-24VDC	24VDC	DPDT-NO	250	N	93K6399	269.24
219BBXP-24VDC	24VDC	DPDT-NO	250	Y	93B5386	290.44
219BBXP 125VDC	125VDC	DPDT-NO	6200	N	60F3105	108.13
219DXBP-120A	120VAC	6PST-4NO/2NC	540	N	60F3055	201.08
219DXBPLM-120VAC	120VAC	6PST-4NO/2NC	540	Y /Manual Actuator	90F1403	334.37
219DXBP-24VDC	24VDC	6PST-4NO/2NC	540	N	69H8826	240.84
219DXB69P-125VDC	125VDC	6PST-4NO/2NC	6200	N/Blowout magnet	93K6400	198.20
219DXBP125VDC	125VDC	6PST-4NO/2NC	6200	N	88F3460	293.09

Blow out magnet (69), lamp (L) and manual actuator (M) among options available (example 219XB69PLM-24VDC)

12 & 14 PIN PANEL MOUNTABLE SOCKETS

Mfg. Part No.	Description	Stock No.	Price Each
27390D	12 Pin Socket Panel Mount, with Screw Terminals & Clamping Plates	69H8902	15.75
33377D	14 Pin Socket Panel Mount, with Screw Terminals & Clamping Plates	69H9061	22.82

12 & 14PIN INDUSTRIAL RELAY SOCKETS



- Rated 10A at 300V
 - Single level wiring
 - Polarized
 - DIN or panel mount ("D" versions)
 - Finger safe non-removable screws ("D" versions)
 - Removable screws for ring terminals (Non "D" versions)
 - Panel mounting (Non "D" versions)
- Industrial sockets have front-connected wiring on one level with screw terminals. Mating relays have locking clip that snaps into socket. Dimensions for 27390: 2.65L x 2.18W x 0.78"H; 33377: 3.10L x 2.18W x 0.78"H. Sockets fit 219, 236, 237, B255, A311 series relays; sold separately on pages 1633-1634. UL listed when used with 219 and B255 series relays; otherwise UL recognized file no. E70550.

Mfg. Part No.	Style	Weight (g)	Stock No.	Price Each		
27390	12-Pin	102	60F3117	1-9	10-24	25-49
33377	14-Pin	120	60F3065	13.73	12.48	11.17
27390D	12-Pin DIN	102	69H8902	15.75	14.91	14.08
33377D	14-Pin DIN	120	69H9061	22.82	21.62	20.41

10A INDUSTRIAL LATCHING RELAYS



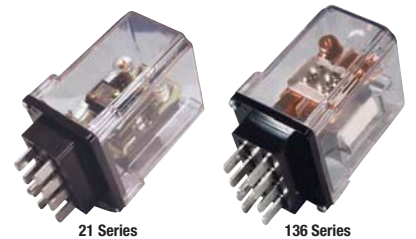
- Dual coil latch / un-latch
- Position maintained during power outages
- 10A carry / 30A make
- Seismic qualified integral hold down clip
- 10 million operations - mechanical
- Continuous duty rated

UL listed when used with 12-pin mating sockets 27390/27390D, on this page

Mfg. Part No.	Coil Input Voltage	Contacts	Resistance (Ω) Latch/Unlatch	Stock No.	Price Each	
B255XBP-120VAC	120VAC	DPDT	540 / 1450	60F3112	1-24	25-49
B255XBP-125VDC	125VDC	DPDT	6200 / 8000	57K6542	306.82	290.50
B255XCXP-120VAC	120VAC	3PDT	540 / 1450	60F3113	323.36	306.16
B255XCXP-24VDC	24VDC	3PDT	250 / 360	94F4731	323.36	306.16
B255XCXP-125VDC	125VDC	3PDT	6200 / 8000	29F2698	323.36	306.16
B255XBP-120VAC	120VAC	DPST-1NO/1NC	540 / 1450	60F3114	309.45	292.99
B255XBP-240VAC	240VAC	DPST-1NO/1NC	1815 / 5000	88F1875	262.56	248.60
B255XBP-24VDC	24VDC	DPST-1NO/1NC	250 / 360	98F843	309.45	292.99
B255XBP-115/125D	125VDC	DPST-1NO/1NC	6200 / 8000	90F1404	327.88	310.44

Blow out magnet (69), lamp (L) and manual actuator (M) among options available (example 255XB60PLM-120VAC) (4035)

FLASH TRANSFER POWER RELAYS



- Meets NEMA TS2 standards
- DOT approved
- Rectified coil design (21 series)
- DPDT contacts
- Plug-in base with polarizing pin
- Mates with SK-TRF8 sockets

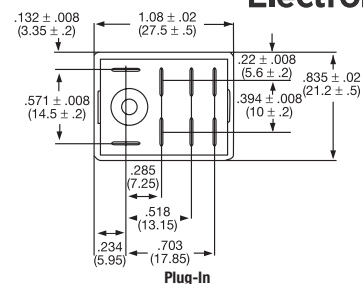
In compliance with UL file no. 508. Mechanical life in excess of 5 million operations. Dust cover included. Contacts: 3/8" dia. silver/palladium. End bracket mount and 12-pin sockets also available; go online or call.

Mfg. Part No.	Coil Voltage	Stock No.	Price Each			
● 21ACPX-2	120VAC	11N7251	1-14	15-24	25-49	50-99
● 21ACPX-8	240VAC	11N7252	24.89	22.83	21.80	20.77
● 21CPX-3	24VDC	89K1818	69.60	63.84	60.96	58.08
			67.71	61.35	57.71	53.17

136 SERIES						
136-62T3A1	120VAC	94F3627	69.14	62.64	58.93	54.29

FLANGE MOUNT SOCKETS						
Mfg. Part No.	Pins	Stock No.	1-14	15-24	25-49	50-99
● SK-TRF6-FW	6	72J4097	5.80	5.32	5.08	4.84
● SK-TRF8-FW	8	72J4098	6.96	6.39	6.10	5.81

OEG 15A MINIATURE RELAYS



- Compact, low cost 15A switching capacity available
- DPDT contact arrangement
- AC and DC coils
- Plug-in or PC board terminals
- UL Recognized File No. E58304, CSA Certified

➔ CONTINUED ➔

PLUG-IN/INDUSTRIAL RELAYS – SQUARE

OEG 15A MINIATURE RELAYS (CONT.)

Contact ratings: 15A @ 120VAC resistive; 10A @ 250VAC/24VDC. Max. switching current: 15A. Max. switching power: 3,168VA, 240W. Mfg. part nos. with "P" suffix have PC board terminals. 3, 5 and 10A relays also available; go online or call. Sockets available, see below.

PLUG-IN TERMINALS

Mfg. Part No.	Coil Voltage	Coil Resist. (Ω)	Contacts	Stock No.	Price Each	
					1-9	10-24
● PCLH-202A1S	12VAC	40	DPDT	33C0932	5.37	
● PCLH-203A1S	24VAC	160	DPDT	33C0935	6.49	
● PCLH-206A1S	110/120VAC	3,400	DPDT	33C0940	6.55	
● PCLH-208A1S	220/240VAC	13,600	DPDT	33C0942	7.63	
● PCLH-202D1S	12VDC	160	DPDT	33C0933	6.11	
● PCLH-204D1S	48VDC	2,600	DPDT	33C0937	6.18	
● PCLH-205D1S	100/110VDC	11,000	DPDT	33C0938	6.49	

PC BOARD TERMINALS

● PCLH-206A1SP	110/120VAC	3,400	DPDT	33C0941	6.40	
● PCLH-202D1SP	12VDC	160	DPDT	33C0934	5.97	
● PCLH-203D1SP	24VDC	650	DPDT	33C0936	5.97	

SOCKETS

Mfg. Part No.	Termination	Hold Down Spring	Stock No.	Price Each	
				1-24	25-49
● 27E895	Screw Terminal, DIN Rail Snap-Mount	20C297	46F3590	5.34	
● 27E488	Solder Terminal	27E488	67F3898	2.00	

(68399)

PTH SERIES 6-12A MINIATURE RELAYS



Features:

- Advanced design has no braided wire, no welds or solder joints in the contact area and fewer parts for enhanced reliability
- Sensitive coil (750mW / 0.85VA)
- AC and DC coils
- Optional integral LED (green for DC coil, red for AC coil), protection diode, resistor-capacitor network available; go online or call
- Mounted height is approximately 1.42 in (36 mm)
- Approximate size: .87x1.1x1.42in (22x28x36mm)
- Environmentally friendly, cadmium-free contacts

Specifications:

- Arrangements: 2 Form C (DPDT) and 4 Form C (4PDT)
- Type of contact: Single contact
- Material: Silver-nickel.
- Maximum switching rate: 600 ops./min (no load); 6 ops./min (minimum load)
- Mechanical life: DC coil 30 million ops. min; AC coil 20 million ops. min

AC COIL

Mfg. Part No.	Carry Current (A)	Con-tacts	Coil Voltage (VAC)	Coil Resist. (Ω)	Termination	LED	Stock No.	Price Each	
								1-24	25-49
● PT52AR12B	6	4PDT	12	48	Quick Connect	Yes	95M5185	7.89	
● PT52A512B	6	4PDT	12	48	Quick Connect	No	95M5190	6.60	
● PT52AR24B	6	4PDT	24	192	Quick Connect	Yes	95M5186	7.84	
● PT52A524B	6	4PDT	24	192	Quick Connect	No	95M5191	6.60	
● PT52AS15B	6	4PDT	115	4845	Quick Connect	Yes	95M5187	8.86	
● PT22AR12B	12	DPDT	12	48	Quick Connect	Yes	95M5175	6.64	
● PT22AS12B	12	DPDT	12	48	Quick Connect	No	95M5180	5.44	
● PT22AR24B	12	DPDT	24	192	Quick Connect	Yes	95M5176	6.60	
● PT22A524B	12	DPDT	24	192	Quick Connect	No	95M5181	5.42	
● PT22AS15B	12	DPDT	115	4845	Quick Connect	Yes	95M5177	6.79	
● PT22A615B	12	DPDT	115	4845	Quick Connect	No	95M5182	5.59	

DC COIL

Mfg. Part No.	Carry Current (A)	Con-tacts	Coil Voltage (VDC)	Coil Resist. (Ω)	Termination	LED	Stock No.	Price Each	
								1-24	25-49
● PT52B012B	6	4PDT	12	192	Solder Lug	No	95M5192	6.60	
● PT52A012B	6	4PDT	12	192	Quick Connect	No	95M5188	7.21	
● PT52B024B	6	4PDT	24	777	Solder Lug	No	95M5193	6.60	
● PT52A024B	6	4PDT	24	777	Quick Connect	No	95M5189	6.48	
● PT22B012B	12	DPDT	12	192	Solder Lug	No	95M5183	5.28	
● PT22A012B	12	DPDT	12	192	Quick Connect	No	95M5178	5.28	
● PT22B024B	12	DPDT	24	777	Solder Lug	No	95M5184	6.14	
● PT22A024B	12	DPDT	24	777	Quick Connect	No	95M5179	5.34	

(110616)

P&B KH SERIES SOCKET- AND PANEL-MOUNT RELAYS



Just Added



4PDT relays available with AC or DC operation. Suffix "N" in mfg. part no. indicates neon lamp. Suffix "L" in mfg. part no. indicates LED indicator. **KHAU series** relays are the same as **KHU series**, but manufactured on an automated production line. Solder terminals. 1.281"H x 0.910"W x 1.156"D. Order sockets separately; see the Relay Socket Usage Guide. UL recognized, CSA certified.



KHAU Series



KHU Series

AC COIL

Mfg. Part No.	Carry Current (A)	Con-tacts	Coil Voltage (VAC)	Coil Resist. (Ω)	Termination	Stock No.	Price Each	
							1-24	25-49
● KHAU-17A16-24	1	4PDT	24	160	Solder	16M9045	28.52	26.27
● KHU-17A16-120	1	4PDT	120	3900	Q.C.	94F041	34.67	32.99
● KHAU-17A16-120	1	4PDT	120	3900	Solder	90F1129	24.55	22.50
● KHU-17A13-120	2	4PDT	120	3900	Q.C.	16M9057	78.00	74.21
● KHAU-17A13-120	2	4PDT	120	3900	Solder	87F1108	31.86	30.31
● KHAU-11A11-120	3	DPDT	120	3900	Solder	90F1128	7.97	6.97
● KHU-17A11-12	3	4PDT	12	43	Q.C.	16M9054	27.74	26.39
● KHU-17A11-24	3	4PDT	24	160	Q.C.	16M9056	29.02	26.12
● KHU-17A18-120	3	4PDT	120	3900	Q.C.	16M9058	34.67	32.99
● KHU-17A11-120	3	4PDT	120	3900	Q.C.	16M9055	25.19	23.09
KHU-17A11N-120	3	4PDT	120	3900	Q.C.	62F3038	34.67	32.99
● KHAU-17A11-12	3	4PDT	12	43	Solder	16M9041	7.19	6.59
● KHAU-17A11-24	3	4PDT	24	160	Solder	16M9043	6.31	5.78
● KHAU-17A11-120	3	4PDT	120	3900	Solder	16M9042	7.09	6.50
KHAU-17A11N-120	3	4PDT	120	3900	Solder	87F1106	9.89	9.08
● KHAU-17A18-120	3	4PDT	120	3900	Solder	16M9046	9.00	8.26
KHAU-17A11H-120	3	4PDT	120	3900	Solder	94B6166	10.72	10.19
● KHAU17A12-24	5	4PDT	24	160	Solder	76M7966	6.92	6.59
● KHU-17A12-120	5	4PDT	120	3900	Q.C.	29M9947	34.67	32.99
● KHAU-17A12-120	5	4PDT	120	3900	Solder	76M8681	6.30	5.78
● KHAU17A12H120	5	4PDT	120	3900	Solder	50B6768	9.98	9.49
KHAU-17A12N-120	5	4PDT	120	3900	Solder	71C8374	10.40	9.90

DC COIL

Mfg. Part No.	Carry Current (A)	Con-tacts	Coil Voltage (VDC)	Coil Resist. (Ω)	Termination	Stock No.	Price Each	
							1-9	10-24
● KHAU-17D16-12	1	4PDT	12	160	Solder	18M9120	29.12	26.48
● KHU-17D16-24	1	4PDT	24	650	Q.C.	16M9062	19.73	17.93
● KHAU-17D16-24	1	4PDT	24	650	Solder	16M9053	21.49	19.71
● KHAU-17D16-48	1	4PDT	48	2600	Solder	05C0434	19.23	18.29
● KHAU-17D13-24	2	4PDT	24	650	Solder	16M9052	30.99	29.48
● KHAU-11D11-24	3	DPDT	24	650	Solder	87F1101	7.19	6.59
● KHU-17D11-6	3	4PDT	6	40	Q.C.	16M9061	24.28	23.10
● KHAU-17D11-6	3	4PDT	6	40	Solder	16M9050	7.19	6.59
● KHAU-17D11-12	3	4PDT	12	160	Solder	16M9048	6.30	5.78
● KHU-17D11-12	3	4PDT	12	160	Q.C.	45F036	8.99	8.25
● KHU-17D18-24	3	4PDT	24	650	Q.C.	16M9063	28.61	27.21
● KHU-17D11-24	3	4PDT	24	650	Q.C.	16M9060	7.87	7.22
● KHAU-17D11-24	3	4PDT	24	650	Solder	87F1112	6.30	5.78
KHAU-17D11L-24	3	4PDT	24	650	Solder	08H1505	10.40	9.90
● KHAE-17D11-24*	3	4PDT	24	650	PCB	18M9118	7.81	7.43
● KHAU-17D18-24	3	4PDT	24	650	Solder	08H1514	9.55	9.09
● KHAU-17D11-48	3	4PDT	48	2600	Solder	16M9049	8.42	7.37
● KHU17D11-90	3	4PDT	90	...	Solder	62F3083	28.61	27.21
● KHU-17D11-110	3	4PDT	110	11000	Q.C.	16M9059	34.67	32.99
● KHAU-17D11-110	3	4PDT	110	11000	Solder	16M9047	8.13	7.45
● KHAU-11D12-12	5	DPDT	12	160	Solder	18M9119	7.48	6.55
● KHU-17D12-12	5	4PDT	12	160	Q.C.	95F8880	24.28	23.10
● KHAU-17D12-12	5	4PDT	12	160	Solder	20M7019	9.69	8.78
● KHU-17D12-24	5	4PDT	24	650	Q.C.	45F040	24.28	23.10
KHU17D12L-24	5	4PDT	24	650	Q.C.	50B6771	34.67	32.99
● KHAE-17D12-24*	5	4PDT	24	650	PCB	90F1127	10.73	9.53
KHAU-17D12L-24	5	4PDT	24	650	Solder	95C1854	10.40	9.90
KHAU-17D12M-24	5	4PDT	24	650	Solder	08H1511	10.40	9.90
● KHAU-17D12-24	5	4PDT	24	650	Solder	16M9051	6.31	5.78
● KHAU-17D12-48	5	4PDT	48	2600	Solder	87F1119	8.45	7.68

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PLUG-IN/INDUSTRIAL RELAYS – SQUARE

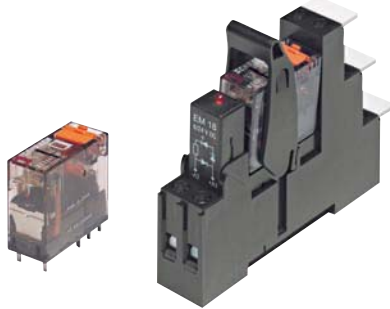
P&B KH SERIES SOCKET- AND PANEL-MOUNT RELAYS (CONT.)

DC COIL

Mfg. Part No.	Carry Current (A)	Contacts	Coil Voltage (VAC)	Coil Resist. (Ω)	Termination	Stock No.	Price Each	
							1-24	25-49
KHAU-17D12L-48	5	4PDT	48	2600	Solder	08H1510	10.40	9.90
KHAU-17D12-110	5	4PDT	110	11000	Solder	87F1120	7.82	6.85

*PCB terminals (3283)

XT SERIES INTERFACE PLUG-IN RELAYS



Features:

- Compact design is only 0.54" (13.7mm) wide
- Approximate size: 1.14x0.54x1.01in (29x13.7x25.6mm)
- Choice of SPDT rated 16A or DPDT rated 8A
- Plugs into same sockets as the RT series
- Sensitive DC coil (400mW) or AC coil (0.58VA @60 Hz)
- Test lever, mechanical indicator, LED and protection diode options
- 4kV (8mm) coil-to-contact isolation
- RoHS Compliant (Directive 2002/95/EC)
- Reinforced insulation, protection class II (VDE 0700)

Specifications:

- Contact Ratings: 1FormC (SPDT): 16A at 240VAC; 2FormC (DPDT): 8A at 240VAC
- Contact material: Silver Nickel 99%
- Mechanical life (at rated load): 10million operations w/DC coil; 5million operations w/AC coil
- Coil voltage: 12 to 110VDC and 24 to 230VAC; others on request
- Coil Power: 400mW; 0.76VA at 50Hz / 0.58VA at 60Hz
- Dielectric strength: 5,000Vrms

AC COIL

Mfg. Part No.	Carry Current (A)	Contacts	Coil Voltage (VAC)	Coil Resist. (Ω)	LED	Stock No.	Price Each	
							1-24	25-49
XT424524	8	DPDT	24	350	No	89M5665	4.09	3.58
XT484R24	8	DPDT	24	350	Yes	89M5660	6.68	6.12
XT424615	8	DPDT	115	8100	No	89M5666	5.04	4.41
XT484S15	8	DPDT	115	8100	Yes	89M5661	7.01	6.13
XT484T30	8	DPDT	230	32500	Yes	89M5662	8.92	8.18
XT314524	16	SPDT	24	350	No	89M5653	4.29	3.76
XT374R24	16	SPDT	24	350	Yes	89M5657	6.64	6.09
XT314615	16	SPDT	115	8100	No	89M5654	4.91	4.29
XT374S15	16	SPDT	115	8100	Yes	89M5658	7.01	6.13
XT374T30	16	SPDT	230	32500	Yes	89M5659	8.92	8.18

DC COIL

Mfg. Part No.	Carry Current (A)	Contacts	Coil Voltage (VDC)	Coil Resist. (Ω)	LED & Diode	Stock No.	Price Each	
							1-24	25-49
XT424012	8	DPDT	12	360	No	89M5663	4.13	3.62
XT484LB2	8	DPDT	12	360	Yes	89M5667	6.34	5.55
XT424024	8	DPDT	24	1440	No	89M5664	4.22	3.70
XT484LC4	8	DPDT	24	1440	Yes	89M5668	6.64	6.09
XT314012	16	SPDT	12	360	No	89M5651	4.01	3.52
XT374LB2	16	SPDT	12	360	Yes	89M5655	6.18	5.41
XT314024	16	SPDT	24	1440	No	89M5652	4.01	3.52
XT374LC4	16	SPDT	24	1440	Yes	89M5656	6.49	5.95

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each
			1-24
RT78725	Screw terminal socket, DIN mount, conventional terminal arrangement	89M5648	12.72
RT78726	Screw terminal socket, DIN mount, logical terminal arrangement	89M5649	3.70
RT7872P	Poke-in (screwless) terminal socket, DIN mount, logical terminal arrangement	89M5647	4.66
XT17017	Plastic retaining clip for use with XT relay and the above-listed sockets	89M5650	0.76
RT17040	Marking tag for use with the above-listed sockets	89M5646	0.15
RT170P1	Jumper bar for use with RT7872P sockets	89M5645	0.60

(112018)

P&B 15A SOCKET OR PANEL MOUNT RELAYS

Just Added



Socket Mount



Top Flange

K10 series relays offer reliable DPDT, 15 Amp switching capability in a compact, polycarbonate dust cover enclosed package. Silver cadmium oxide contacts rated 15 amps @ 120VAC resistive; 10 Amps @ 30VDC resistive or 277VAC; 1/2HP @ 250VAC; 1/2HP @ 120VAC. Nominal power: 0.9W for DC coil types and 1.2VAC for AC coil types. Mechanical life: 10 million operations. Electrical life: 100,000 operations. Order sockets and hold-down spring separately below or see the Relay Socket Usage Guide.

AC RELAYS

Mfg. Part No.	Mounting & Termination	Coil Voltage	Coil Resist. (Ω)	Stock No.	Price Each	
					1-24	25-49
K10P-11A55-120	PC Board Printed Circuit Terminals	120	3100	77C5922	10.72	9.54
K10P-11A15-6	Socket Mount; 0.187" (4.75mm) Quick-Connect/Solder Terminals	6	10.5	18M9150	9.49	8.63
K10P-11A15-12		12	43	17M0324	9.55	9.28
K10P-11A15-24		24	160	67F3888	8.37	7.62
K10P-11A15-120		120	3900	29M9953	7.80	7.09
K10P-11A15-240	Mounting Bracket on End of Covers; 0.187" (4.75mm) Quick-Connect/Solder Terminals	240	12000	17M0325	8.69	7.61
K10P-11A15-24		24	160	98F5557	21.35	20.48
K10P-11A15-120		3900	17M0323	9.22	8.38	
K10P-11A15-240		240	12000	04C9989	8.82	8.46

DC RELAYS

K10P-11D55-12	PC Board Printed Circuit Terminals	12	160	17M0329	9.55	9.28
K10P-11D55-24		24	650	17M0330	6.38	6.20
K10P-11D55-110		110	11000	90F1146	8.42	7.37
K10P-11D15-6	Socket Mount; 0.187" (4.75mm) Quick-Connect/Solder Terminals	6	40	67F3891	8.42	7.37
K10P-11D15-12		12	160	17M0327	7.80	7.09
K10P-11D15-24		24	650	17M0328	7.80	7.10
K10P-11D15-48		48	2600	08H1892	8.28	7.94
K10P-11D15-110	Mounting Bracket on End of Covers; 0.187" (4.75mm) Quick-Connect/Solder Terminals	110	11000	17M0326	8.42	7.37
K10P-11D15-12		12	160	87F522	8.87	8.22
K10P-11D15-24		24	650	18M9151	10.15	9.41

SOCKETS AND ACCESSORIES

Mfg. Part No.	Product Description	Stock No.	Price Each	
			1-24	25-49
27E488	Solder Terminal Relay Socket	67F3898	2.00	1.85
27E489	PCB Terminal Relay Socket	67F3899	1.85	1.71
27E895	Screw Terminal, DIN Rail Snap-Mount Relay Socket	46F3590	5.34	4.90
27E487	Screw Terminal Relay Socket	67F3897	5.14	4.71
20C217	Hold-Down Spring for 27E488 and 27E489	57F3402	0.46	0.42
20C426	Hold-Down Spring for 27E487	48F4087	0.69	0.60

MOUNTING HARDWARE

Mfg. Part No.	Description	Stock No.	Price Each		
			1-24	25-49	50-99
24A110	DIN Rail Style Extruded Aluminum Meeting Track 36" (914mm) Long With Holes on 6" (152.4mm) Centers. Holes Accept # 8 Screws.	46F3617	10.30	9.44	8.72
37D633	Mounting Plate Strip - For Mounting of Up to 8 mfg. part no. 27E488 Sockets in 1 Length of Aluminum Strip Measuring 10.97W x 2.25L x 0.62"H	57F3464	10.91

(3291)

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PLUG-IN/INDUSTRIAL RELAYS – SQUARE

**P&B 5A - 30A
SERIES GENERAL-
PURPOSE RELAYS**



Just Added



Plain Case



Flange Mount



Top Flange Mount

- Available in AC or DC coil
- 5, 10, 15, 20 and 30A ratings
- Silver contacts (5A); silver-cadmium oxide contacts (10-30A)

- 5V through 240V
- Quick-connect solder terminals

KUIP and **KUGP** series relays have 8mm coil-to-contact spacing and 3mm contact gap. **KUHP** series have silver-cadmium oxide contacts and solder/push-on terminals. **KUEP** series relays feature wide contact gap and are equipped with a permanent magnet blowout to assist in interrupting DC current when the contacts are opened. Enclosed in a polycarbonate dust cover. UL recognized, CSA certified. **KUGP** and **KUIP** series relays are also VDE approved. Order sockets and hold-down springs separately below. See also the *Relay Socket Usage Guide*. See footnotes regarding push-to-test and neon indicating lamp options.

DIMENSIONS (L x W x H)

Series	Plain Case	Flange	Top Flange
KUEP, KUIP, KUP KJMP	1.406 x 1.531 x 1.968"	1.406 x 1.968 x 2.90"	N/A
KUHP	1.406 x 1.531 x 1.968"	1.406 x 1.531 x 2.90"	2.382 x 1.393 x 2.461"

KU SERIES OPEN RELAYS

Mfg. Part No.	Contact Rating (A)	Contacts	Coil Input Voltage	Mount Style	Stock No.	Price Each 1-9
KU-11A31-120	5	DPDT	120VAC	Plain Case	08H1597	16.05

KUP SERIES ENCLOSED RELAYS

● KUP-11A11-120	10	DPDT	120VAC	Plain Case	18M9144	14.86
● KUP-11D11-24	10	DPDT	24VDC	Plain Case	10M5234	18.20
● KUP-14A41-120	10	3PDT	120VAC	Plain Case	27C8364	16.05
● KUP-14A11F-120	10	3PDT	120VAC	Plain Case	91B6373	14.29
● KUP-14A11-120	10	3PDT	120VAC	Plain Case	67F1109	16.10
● KUP-5A15-24	10	SPDT	24VAC	Plain Case	24F2602	18.19
● KUP-5A55-120	10	SPDT	120VAC	Flange	17M0273	12.38
● KUP-5A15-120	10	SPDT	120VAC	Plain Case	18M9148	18.56
● KUP-5A15-240	10	SPDT	240VAC	Plain Case	17M0272	14.03
● KUP-5D55-12	10	SPDT	12VDC	Flange	18M9149	18.80
● KUP-5D15-12	10	SPDT	12VDC	Plain Case	29M9952	15.92
● KUP-5D55-24	10	SPDT	24VDC	Flange	17M0274	11.15
● KUP-5D15-24	10	SPDT	24VDC	Plain Case	24F2607	12.87
● KUP11AA5-120	10	DPDT	120VAC	Plug In	98F4638	14.53
● KUP11AE5-120	10	DPDT	120VAC	Plug In	95B0611	14.53
● KUP11AT5-120VAC	10	DPDT	120VAC	Plug In	87F520	13.04
● KUP-11D35-110	10	DPDT	110VDC	Plug In	98F4762	14.04
● KUP-14A31-120	5	3PDT	120VAC	Plug In	90F1149	15.05
● KUP-14A35-240	10	3PDT	240VAC	Plug In	85C4960	13.27
● KUP-14A45-240	10	3PDT	240VAC	Plug In	08H1811	16.05
● KUP-14A55-6	10	3PDT	6VAC	Plug In	24F3267	15.05
● KUP14AT5-120VAC	10	3PDT	120VAC	Plug In	87F515	14.53
● KUP14D45-125VDC	10	3PDT	125VDC	Plug In	92B2479	16.05
● KUP-14D55-110	10	3PDT	110VDC	Plug In	24F2896	11.05
● KUP-14D55-36	10	3PDT	36VDC	Plug In	94C4580	14.53
● KUP-14DE5-24	10	3PDT	24VDC	Plug In	90B5919	15.05
● KUP17A55-120	10	4PDT	120VAC	Plug In	77B3011	50.14
● KUP-3A17-120	10	4PDT	120VAC	PC Board	08H1827	15.05
● KUP93-14A13-120	10	3PDT	120VAC	Plug In	17C1657	44.28
● KUP93-14A51-120	5	3PDT	120VAC	Plug In	08H1839	26.50
● KUP-11A15-12	10	DPDT	12VAC	Plain Case	24F2610	14.86
● KUP-11A55-24	10	DPDT	24VAC	Flange	17M0254	10.40
● KUP11AA5-24†	10	DPDT	24VAC	Plain Case	06R3603	14.53
● KUP-11A15-24	10	DPDT	24VAC	Plain Case	17M0252	9.90
● KUP-11A15-120	10	DPDT	120VAC	Plain Case	17M0251	8.42
● KUP-11A35-120*	10	DPDT	120VAC	Plain Case	62F3031	12.87
● KUP-11A55-120	10	DPDT	120VAC	Flange	17M0253	10.84
● KUP-11A15-240	10	DPDT	240VAC	Plain Case	24F2613	10.92
● KUP-11D15-5	10	DPDT	5VDC	Plain Case	17M0257	9.09
● KUP-11D55-6	10	DPDT	6VDC	Flange	24F3275	11.00
● KUP-11D55-12	10	DPDT	12VDC	Flange	24F3276	8.32
● KUP-11D15-12	10	DPDT	12VDC	Plain Case	29M9951	9.90

▶ CONTINUED ▶

**P&B 5A - 30A
SERIES GENERAL-
PURPOSE RELAYS (CONT.)**
KUP SERIES ENCLOSED RELAYS

Mfg. Part No.	Contact Rating (A)	Contacts	Coil Input Voltage	Mount Style	Stock No.	Price Each 1-9
● KUP-11D55-24	10	DPDT	24VDC	Flange	17M0259	9.50
● KUP-11D15-24	10	DPDT	24VDC	Plain Case	17M0256	10.40
● KUP-11D35-24*	10	DPDT	24VDC	Plain Case	62F3037	12.98
● KUP-11D45-24**	10	DPDT	24VDC	Plain Case	08H1801	13.04
● KUP-11D15-48	10	DPDT	48VDC	Plain Case	30C9742	18.09
● KUP-11D55-48	10	DPDT	48VDC	Flange	17M0260	14.71
● KUP-11D15-110	10	DPDT	110VDC	Plain Case	17M0255	9.89
● KUP-11D55-110	10	DPDT	110VDC	Flange	17M0258	14.61
● KUP-14A15-12	10	3PDT	12VAC	Plain Case	18M9145	14.35
● KUP-14A55-12	10	3PDT	12VAC	Flange	24F2891	17.95
● KUP-14A15-24	10	3PDT	24VAC	Plain Case	18M9146	12.13
● KUP-14A35-24*	10	3PDT	24VAC	Plain Case	25C5728	14.03
● KUP-14AE5-24.††	10	3PDT	24VAC	Plain Case	90B5833	14.53
● KUP93-14A13-24	10	3PDT	24VAC	Plain Case	17M0275	30.48
● KUP-14A55-24	10	3PDT	24VAC	Flange	17M0265	17.93
● KUP-14A15-120	10	3PDT	120VAC	Plain Case	19M1074	10.11
● KUP-14A25-120†	10	3PDT	120VAC	Plain Case	18M9147	18.56
● KUP14A35F-120.	10	3PDT	120VAC	Plain Case	98F9646	13.55
● KUP-14A35-120*	10	3PDT	120VAC	Plain Case	17M0262	13.00
● KUP-14A45-120**	10	3PDT	120VAC	Plain Case	17M0263	13.87
● KUP-14A55-120	10	3PDT	120VAC	Flange	17M0264	17.58
● KUP-14A15-240	10	3PDT	240VAC	Plain Case	17M0261	11.96
● KUP-14A55-240	10	3PDT	240VAC	Flange	24F3268	14.71
● KUP-14D15-6	10	3PDT	6VDC	Plain Case	24F2623	11.54
● KUP-14D15-12	10	3PDT	12VDC	Plain Case	17M0266	9.39
● KUP-14D55-12	10	3PDT	12VDC	Flange	17M0270	13.79
● KUP-14D25-24†	10	3PDT	24VDC	Plain Case	20M7024	16.47
● KUP-14D11-24	10	3PDT	24VDC	Plain Case	95F9230	10.73
● KUP-14D15-24	10	3PDT	24VDC	Plain Case	17M0267	9.39
● KUP-14D35F-120.	10	3PDT	24VDC	Plug In	25C3463	14.53
● KUP-14D17-24	10	3PDT	24VDC	PC Board	93F3083	14.04
● KUP-14D55-24	10	3PDT	24VDC	Flange	20M7025	13.38
● KUP-14D35-24*	10	3PDT	24VDC	Plain Case	77B392	13.50
● KUP-14D15-48	10	3PDT	48VDC	Plain Case	17M0268	13.87
● KUP-14D35-110*	10	3PDT	110VDC	Plain Case	20M4356	14.03
● KUP-14D15-110	10	3PDT	110VDC	Plain Case	19M8444	9.77
● KUP-14D35F-110	10	3PDT	110VDC	Plug In	08H1820	14.53
● KUP-14D45-110VDC	10	3PDT	110VDC	Plug In	64P3147	16.05
● KUP-17A55-24	10	4PDT	24VAC	Bracket Mount Case	77B3010	50.14
● KUP-17A19-120	10	4PDT	120VAC	Plain Case	77B3006	79.02
● KUP-17D19-24	10	4PDT	24VDC	Plain Case	19M1075	53.95

KUIP SERIES ENCLOSED RELAYS DESIGNED FOR GENERAL VDE 0435

● KUIP-5A55-120	10	SPDT	120VAC	Flange	66F3434	15.56
● KUIP-11A75-120	10	DPDT	120VAC	Top Flange	17M0238	21.32
● KUIP-11A55-120	10	DPDT	120VAC	Flange	83C7832	19.39
● KUIP-14D55-24	10	3PDT	24VAC	Bracket	08H1736	22.00
● KUIP-11D55-24	10	DPDT	24VDC	Flange	29M9949	17.92
● KUIP-14D15-12	10	3PDT	12VDC	Plain Case	93F3079	21.25
● KUIP-14D15-24	10	3PDT	24VDC	Plain Case	17M0240	21.25
● KUIP-14A15-120	10	3PDT	120VAC	Plain Case	17M0239	21.85

KUGP SERIES ENCLOSED RELAYS WITH 3mm OPEN SPACING

● KUGP-7D55-24	10	DPST-NO	24VDC	Flange	90F1116	20.64
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KUEP SERIES ENCLOSED RELAYS WITH MAGNETIC BLOWOUTS

● KUEP-3A15-120	10	SPST-NO-DM	120VAC	Plain Case	17M0224	17.05
● KUEP-3D15-12	10	SPST-NO-DM	12VDC	Plain Case	20M7020	18.83
● KUEP-3D15-24	10	SPST-NO-DM	24VDC	Plain Case	17M0226	14.11
● KUEP-3D35-24	10	SPST-NO	24VDC	Bracket	27C6194	16.33
● KUEP-3D15-48	10	SPST-NO-DM	48VDC	Plain Case	17M0227	20.66
● KUEP-3D15-110	10	SPST-NO-DM	110VDC	Plain Case	17M0225	15.25
● KUEP-7D15-12	10	DPST-NO	12VDC	Plug In	49C8922	17.15
● KUEP-7D15-24	10	DPST-NO	24VDC	Plain Case	17M0229	15.80
● KUEP7D15-110	10	DPST-NO	110VDC	Plain Case	06R3598	24.25
● KUEP-11A15-120	10	DPDT	120VAC	Plain Case	18M9141	20.22
● KUEP-11A15-240	10	DPDT	240VAC	Plain Case	17M0220	24.74
● KUEP-11D15-12	10	DPDT	12VDC	Plain Case	17M0222	19.57
● KUEP-11D15-24	10	DPDT	24VDC	Plain Case	17M0223	16.00
● KUEP-11D15-48	10	DPDT	48VDC	Plain Case	90B8438	23.21
● KUEP-11D15-110	10	DPDT	110VDC	Plain Case	17M0221	24.33

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PLUG-IN/INDUSTRIAL RELAYS – SQUARE

P&B 5A - 30A
SERIES GENERAL-PURPOSE RELAYS (CONT.)
KUMP SERIES ENCLOSED RELAYS

Mfg. Part No.	Contact Rating (A)	Contacts	Coil Input Voltage	Mount Style	Stock No.	Price Each
● KUMP-7D58-12	15	DPST-NO	12VDC	Flange	95C0222	13.44
● KUMP-7A58-24	15	DPST-NO	24VDC	Bracket	02E9029	14.49
● KUMP-11D18-12	15	DPDT	12VAC	Plain Case	33F1581	11.06
● KUMP-11A18-24	15	DPDT	24VAC	Plain Case	17M0247	17.89
● KUMP-11A18-120	15	DPDT	120VAC	Plain Case	10M5233	11.93
● KUMP-11D18-24	15	DPDT	24VDC	Plain Case	17M0249	11.06
● KUMP-11D18-110	15	DPDT	110VDC	Plain Case	17M0248	15.74
● KUMP-14A18-24	15	3PDT	24VAC	Plain Case	18M9143	16.65
● KUMP-14A48-120	15	3PDT	120VAC	Plain Case	90B2393	19.80
● KUMP-14A18-240	15	3PDT	240VAC	Plain Case	17C1420	17.72
● KUMP-11A18-240	15	DPDT	240VAC	Plain Case	20M7021	16.97
● KUMP-14D18-12	15	3PDT	12VDC	Plain Case	20M7023	14.75
● KUMP-14D18-24	15	3PDT	24VDC	Plain Case	17M0250	12.79
● KUMP-14A18-120	15	3PDT	120VAC	Plug In	76M7970	14.32

KUHP SERIES POWER RELAYS

Mfg. Part No.	Contact Rating (A)	Contacts	Coil Input Voltage	Mount Style	Stock No.	Price Each
● KUHP-11AT1-24	20	DPDT	24VAC	Flange	08H1715	15.60
● KUHP1D1724	20	DPDT	24VDC	PC Board	48F1284	14.09
● KUHP-5A51-240	30	SPDT	240VDC	Bracket	08H1721	16.20
● KUHP-11A51-24	20	DPDT	24VAC	Flange	84F659	12.42
● KUHP-11A51-120	20	DPDT	120VAC	Flange	17M0231	14.49
● KUHP-11AT1-120	20	DPDT	120VAC	Top Flange	17M0230	14.00
● KUHP-11A51-240	20	DPDT	240VAC	Bracket	90B5918	15.12
● KUHP-11D51-12	20	DPDT	12VDC	Flange	17M0233	11.99
● KUHP-11D11-12	20	DPDT	12VDC	Top Flange	17M0232	14.39
● KUHP-11D11-24	20	DPDT	24VDC	Top Flange	18M2418	17.99
● KUHP-5A51-24	30	SPDT	24VAC	Flange	17M0236	12.38
● KUHP-5A51-120	30	SPDT	120VAC	Flange	17M0235	12.39
● KUHP-5AT1-120	30	SPDT	120VAC	Top Flange	18M9142	18.55
● KUHP-5D51-12	30	SPDT	12VDC	Flange	17M0237	21.32
● KUHP-5D11-12	30	SPDT	12VDC	Top Flange	87F511	11.54
● KUHP-5D51-24	30	SPDT	24VDC	Flange	90F1120	11.12
● KUHP-5D11-24	30	SPDT	24VDC	Top Flange	87F510	13.70

* With indicator lamp; ** With indicator lamp and test button; † With test button; ‡ With #6-32 Stud, locating tab; †† With tapped core, locating tab.

SOCKETS

Mfg. Part No.	Termination	Dimensions L x W x H (inches)	Hold-Down Spring	Stock No.	Price Each
● 27E043	Solder Eyelet	1.50 x 2.03 x 0.639	20C228 or 20C254	57F3424	2.21
● 27E046	PC Board, .144" (3.66mm) Terminals	1.50 x 2.03 x 0.464	20C228 or 20C254	57F3425	2.40
● 27E067	.187" (4.75mm) Quick Connect	1.50 x 2.03 x 0.639	20C228 or 20C254	57F3427	3.33
● 27E121	Screw Terminals	1.900 x 3.150 x 0.895	20C314 (2 Per Socket Required)	57F3430	6.67
● 27E396	PC Board, .184" (4.67mm) Terminals	1.375 x 1.260 x 0.635	20C228 or 20C254	57F3466	2.08
● 27E867	.187" (4.75mm) Quick Connect	1.750 x 2.750 x 0.832	20C254	95F9228	17.60
● 27E893	Screw Terminals, DIN Rail Mounting	1.703 x 3.000 x 1.030	20C318	46F3616	7.96

HOLD-DOWN SPRINGS

Mfg. Part No.	Stock No.	Price Each		
		1-49	50-99	100-249
● 20C228	57F3403	0.72	0.64	0.59
● 20C254	50F9528	0.54	0.50	0.45
● 20C314	95F7967	0.68	0.62	0.58
● 20C318	46F3619	0.50	0.47	0.42

(3315)

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(148886)

P&B 2.0-7.5A
SOCKET, PANEL MOUNT AND PC BOARD RELAYS



Just Added

- Dry circuit to 7.5A
- 2.2W power consumption max.
- AC or DC coil
- 1-pole thru 8-pole

R10 series relays have DPDT contacts. R10S series are super-sensitive R10s (case and terminals E1 and E2 only). Solder terminals are 0.012" (0.305 x 0.080" (2.03 x 0.210" (5.33) mm long with #3-48 mounting stud. Expected mechanical life: 100 million operations (except contact code W: 1 million operations, typical). Initial dielectric strength: Between open contacts - 500Vrms, for contact codes P and Z; 1,000Vrms for contact codes W, X and Y with coil code V. Between all other conductors - 1,000Vrms. All units are UL recognized, and all except 8PDT are CSA certified. R10T series relays with 8-pin or 11-pin octal base and sockets available. R10L series relays with LED indicator available (V or S coil adjustment only; to 48VDC only); go online or call.



R10-E1 #3-48 Mounting Stud

ORDERING INFORMATION

Example	R10	-E	1	Y	4	-V700
Position	1	2	3	4	5	6
Package	E = Nonsealed Polycarbonate Cover	R = Immersion Cleanable, Tape Sealed Plastic Case (R10 Only)				
Termination	1 = Solder/Plug-In Terminal with #3-48 Mounting Stud	2 = Printed Circuit Terminal	6 = Side Mounting Plate With #6-32 Stud, Solder/Plug-In Terminals	7 = Narrow (0.4" Wide) Printed Circuit Terminals	9 = Non-Shouldered, Narrow Printed Circuit Terminals, Staggered Arrangement	
Contact Material	W = Silver Cadmium Oxide, Single-Contact, 7.5A Max. (R10 Only)	X = Silver-Cadmium Oxide, Single-Contact, 5A Max. (R10 Only)	Y = Fine Silver, Single Contact, 3A Max.	Z = Fine Silver, Bifurcated, Low Level Contacts, 2A Max.	P = Gold Overlay on Silver, Bifurcated Crossbar, Dry Circuit Contacts, 3A Max.	
Coil	AC Coils: Specify Nominal Coil Voltage Followed by "V" DC Coils: Specify Coil Adjustment Code (Below) Followed by Coil Resistance					
	Q = Special DC Voltage Adjustment	S = Sensitive DC Voltage Adjustment	SS = Ultra-Sensitive DC Voltage Adjustment	J = Sensitive DC Current Adjustment	JJ = Ultra-Sensitive DC Current Adjustment	

STANDARD AC COIL

Mfg. Part No.	Contact	Coil Voltage	Coil Resist. (Ω)	Stock No.	Price Each
● R10-E1P2-115V	DPDT	115VAC	9000	29C2156	27.62 26.49
R10-E1X2-115V	DPDT	115VAC	9000	45F117	28.23 25.89
R10-E1Y2-115V	DPDT	115VAC	9000	20C3687	26.39 25.31
R10-E1Z2-115V	DPDT	115VAC	9000	93F3091	37.40 35.87
R10-T1P2-115V	DPDT	115VAC	9000	50B6793	50.12 45.95
R10-T2P3-115V	3PDT	115VAC	9000	94F1892	57.47 55.13
R10E1P415	4PDT	115VAC	9000	94F1888	35.99 34.52
R10-E1W4-115V	4PDT	115VAC	9000	22C4268	42.32 40.59
● R10-E1X4-115V	4PDT	115VAC	9000	14N7112	37.48 35.95
R10-E1P6-115V	6PDT	115VAC	7500	08H3793	45.52 43.66
R10-E2L2-115V	DPDT	115VDC		97C5153	24.54 23.54

STANDARD DC COIL

● R10-E1Y1-SS1.0K	SPDT	6VDC	1000	17M1798	23.47 22.51
● R10-E1Y1-SS2.0K	SPDT	3VDC	220	17M1799	23.50 22.55
● R10-E1X2-V15.0K	DPDT	115VDC	15000	62F3050	18.70 17.94
● R10-E1Y2-V2.5K	DPDT	48VDC	2500	62F3043	15.35 13.43
● R10-E1-X2-J1.0K	DPDT	28VDC	1000	91B4146	12.67 12.15
● R10-E1Y2-J5.0K	DPDT	26VDC	5000	17M1801	22.88 21.94
● R10-E1W2-V700	DPDT	24VDC	700	67F1076	15.77 14.46
● R10-E1X2-V700	DPDT	24VDC	700	17M1796	14.62 13.40
● R10-E1Y2-V700	DPDT	24VDC	700	17M1803	16.43 14.94
● R10-E1Z2-V700	DPDT	24VDC	700	18M9312	17.08 16.38
● R10-E2P2-V700	DPDT	24VDC	700	94B2990	15.39 14.76
● R10-E2X2-V700	DPDT	24VDC	700	67F1078	16.87 14.97
● R10-E6X2-V700	DPDT	24VDC	700	33F1627	18.78 18.01
R10L-E1X2-V700	DPDT	24VDC	700	67F1092	29.70 28.49
● R10-T1Y2-J1.0K	DPDT	12VDC	1000	17M1816	29.19 28.00
R10-T1P2-V700	DPDT	24VDC	700	94F1890	24.01 23.03
● R10-E1Y2-J2.5K	DPDT	18VDC	2500	45F131	14.49 13.28
R10-E1W2-V185	DPDT	12VDC	185	67F1075	16.21 14.19
● R10-E1X2-V185	DPDT	12VDC	185	29K8666	14.61 13.40
● R10-E1Y2-V185	DPDT	12VDC	185	18M9310	14.94 13.69
● R10-E1Z2-V185	DPDT	12VDC	185	17M1806	17.08 16.38
● R10-E2Y2-V185	DPDT	12VDC	185	45F138	15.25 14.63
● R10-E1X2-S800	DPDT	12VDC	800	17M1792	33.10 26.48

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PLUG-IN/INDUSTRIAL RELAYS – SQUARE

P&B 2.0-7.5A SOCKET, PANEL MOUNT AND PC BOARD RELAYS (CONT.)

STANDARD DC COIL

Mfg. Part No.	Contact	Coil Voltage	Coil Resist. (Ω)	Stock No.	Price Each		
					1-9	10-24	25-49
● R10-E1Z2-S800	DPDT	12VDC	800	77B3045	22.31	21.40	
● R10-E1Y2-J1.0K	DPDT	12VDC	1000	17M1800	14.89	13.03	
● R10-T2W3-J30.0K	3PDT	65VDC	30000	27C1007	47.48	45.54	
● R10-E1Y4-J10.0K	4PDT	60VDC	10000	62F3066	20.80	19.95	
● R10-E1X4-V2.5K	4PDT	48VDC	2500	17M1797	17.71	15.66	
● R10-E1Y4-V2.5K	4PDT	48VDC	2500	17M1804	17.62	16.02	
● R10-E1Z4-V2.5K	4PDT	48VDC	2500	62F3071	22.03	20.03	
● R10-E1L4-V700	4PDT	24VDC	700	08H3783	50.12	48.08	
● R10-E1P2-V700	DPDT	24VDC	700	98F5103	18.43	16.12	
● R10-E1W4-V700	4PDT	24VDC	700	17M1791	25.45	22.27	
● R10-E1X4-V700	4PDT	24VDC	700	18M9308	17.08	15.66	
● R10-E1Y4-V700	4PDT	24VDC	700	45F110	16.02	14.68	
● R10-E1Z4-V700	4PDT	24VDC	700	45F128	17.68	16.96	
● R10-E2P4-V700	4PDT	24VDC	700	90F1099	24.48	19.56	
● R10-E2Y4-V700	4PDT	24VDC	700	17M1814	19.05	16.33	
● R10L-E1X4-V700	4PDT	24VDC	700	67F1094	34.01	32.62	
● R10-E1Z4-J1.0K	4PDT	18VDC	1000	45F135	40.60	32.48	
● R10-E1P4-V185	4PDT	12VDC	185	90F1105	18.62	17.86	
● R10-E1X4-V185	4PDT	12VDC	185	45F118	17.08	15.66	
● R10-E1Z4-V185	4PDT	12VDC	185	17M1807	20.45	19.61	
● R10-E2P4-V185	4PDT	12VDC	185	90F1098	19.17	18.39	
● R10-E2Y4-V185	4PDT	12VDC	185	17M1813	24.05	20.11	
● R10-E1Y4-V52	4PDT	6VDC	52	45F108	16.44	14.39	
● R10-E1Y6-V1.5K	6PDT	48VDC	1500	17M1805	24.63	22.39	
● R10-E1Z6-V1.5K	6PDT	48VDC	1500	18M9313	32.21	30.89	
● R10-E1X6-V430	6PDT	24VDC	430	18M9309	30.08	27.57	
● R10-E1Z6-V430	6PDT	24VDC	430	45F130	32.43	28.37	

SENSITIVE DC COIL

● R10S-E1Y1-J1.0K	SPDT	5VDC	1000	54F046	18.32	16.80	
● R10S-E1Y1-J5.0K	SPDT	12VDC	5000	54F048	29.54	28.34	
● R10S-E1Y2-J1.0K	DPDT	6VDC	1000	54F049	26.60	25.52	
● R10S-E1Y2-J5.0K	DPDT	12VDC	5000	54F051	35.59	32.61	
● R10S-E2Y2-J2.5K	DPDT	28VDC	2500	18M9314	25.82	24.76	
● R10S-E1Y4-J1.0K	4PDT	8VDC	1000	54F052	30.56	29.31	
● R10E1Y1-J10.0K	SPDT	...	10000	76M0208	14.12	13.54	
● R10-E1Y2-S800	DPDT	12VDC	800	97C6741	18.98	18.20	
● R10-E1Y2-V52	DPDT	6VDC	52	45F105	15.25	14.63	
● R10-E1Y6-V9.0K	6PDT	...	9000	08H3813	23.80	22.83	
● R10-E2X2-S3.2K	DPDT	24VDC	3200	08H3823	12.67	12.15	
● R10-R2P2-V700	DPDT	24VDC	700	08H3883	16.59	15.91	
● R10-R2X2-V700	DPDT	24VDC	700	44F988	17.78	17.06	
● R10S-E1Y2J500	DPDT	5VDC	500	78B625	26.60	25.52	

SOCKETS FOR R10 AND R10S SERIES RELAYS

Rugged, molded socket body retains floating terminals or either solder or printed circuit pin configuration. Contacts are spring brass, tin-plated. PC sockets are available in 0.1" (2.54mm) staggered grid or in-line spacings. Solder terminal sockets are rated for 10A maximum. Molded phenolic socket retains floating pierced solder terminals. Solder slot: 0.045" x 0.090". See also the Relay Socket Usage Guide.

Mfg. Part No.	Poles	Terminal Type	Hold-Down Spring	Grounding Provision	Stock No.	Price Each		
						1-24	25-49	50-99
● 27E125	2	Solder	20C249	Strip	57F3433	1.52	1.40	1.29
● 27E162	2	Solder	20C249	None	57F3444	1.39	1.22	1.16
● 27E128	2	PC Stag.	20C249 20C259	Strip	57F3436	1.38	1.27	1.15
● 27E446	2	Solder	20C249	Strip	77B3085	2.04	1.78	1.70
● 27E193	2	PC Stag.	20C249 20C259	Terminal	57F3448	1.39	1.22	1.16
● 27E212	2	PC Stag.	20C249 20C259	None	95F7965	1.39	1.22	1.16
● 27E342	2	PC In-Line	20C249 20C259	None	94F1893	1.39	1.22	1.16
● 27E317	2	Solder/Bkt. Mt.	20C249	Strip	77B3082	2.24	1.96	1.87
● 27E460	2	Screw	20C249 20C259	None	98F040	15.98	14.66	13.52
● 27E126	4	Solder	20C250	Strip	57F3434	1.53	1.44	1.36
● 27E163	4	Solder	20C250	None	57F3445	1.73	1.52	1.45
● 27E129	4	PC Stag.	20C250	Strip	57F3437	1.61	1.47	1.35
● 27E194	4	PC Stag.	20C250 20C259	Terminal	57F3449	1.73	1.52	1.45
● 27E213	4	PC Stag.	20C250 20C259	None	95F7964	1.73	1.52	1.45
● 27E629	4	PC In-Line	20C250 20C259	None	94F1894	1.54	1.46	1.39
● 27E461	4	Screw	20C250 20C259	None	70B786	22.01	20.01	18.35
● 27E127*	6	Solder	20C251	Strip	57F3435	1.92	1.81	1.70

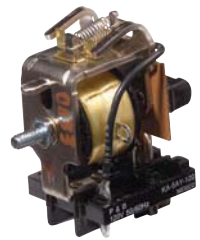
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P&B 2.0-7.5A SOCKET, PANEL MOUNT AND PC BOARD RELAYS (CONT.)

Mfg. Part No.	Poles	Terminal Type	Hold-Down Spring	Grounding Provision	Stock No.	Price Each		
						1-24	25-49	50-99
● 27E130*	6	PC Stag.	20C251 20C259	Strip	57F3438	2.88	2.57	2.31
● 27E271*	6	PC Stag.	20C259	None	08H8439	2.14	2.05	1.88
● 27E462*	6	Screw	20C251 20C259	None	70B6149	33.91	30.52	27.75

*For R10 series only (3115)

P&B LIGHT POWER SOCKET AND PANEL MOUNT RELAYS



KA Series

Highly efficient relays for light power loads such as small motors, solenoids, other relays and general automation work. Mechanical life expectancy: 10 million operations. Mfg. part nos. with "Y" suffix have silver contacts rated 5A @ 120VAC, "G" suffix have silver cadmium oxide contacts rated 10A @ 120VAC. Insulation material is molded phenolic. KA series is open version. Mounting: one no. 6-32 threaded stud and locating tab on 0.438" (11.13) centers. KAP series is enclosed model, protected by a clear polycarbonate dust cover. UL recognized, files E22575 and E29244, and CSA certified, file LR15734. 8- or 11-pin octal type plugs for socket mounting; see Relay Socket Usage Guide.

AC VOLTS, 5A OPEN

Mfg. Part No.	Contacts	Coil Voltage	Coil Resist. (Ω)	Stock No.	Price Each		
					1-9	10-24	25-49
● KA-11AY-24	DPDT	24	85	16M9018	32.81	31.84	30.28
● KA-5AY-120	SPDT	120	2250	16M9024	28.77	27.91	26.54
● KA-11AY-120	DPDT	120	2250	24F517	32.81	31.84	30.28
● KA-14AY-120	3PDT	120	2250	24F519	34.01	33.00	31.38

AC VOLTS, 5A ENCLOSED

● KAP-11AY-24	DPDT	24	85	16M9027	58.89	57.14	54.33
● KAP-11AY-120	DPDT	120	2250	24F2566	58.89	57.14	54.33
● KAP-14AY-120	3PDT	120	2250	24F2577	77.32	75.02	71.34

AC VOLTS, 10A OPEN

● KA-5AG-120	SPDT	120	2250	24F1668	30.88	29.96	28.49
● KA-11AG-120	DPDT	120	2250	24F1673	27.19	26.38	25.08
● KA-14AG-120	3PDT	120	2250	16M9021	39.89	38.70	36.80

AC VOLTS, 10A ENCLOSED

● KAP-5AG-120	SPDT	120	2250	45F034	46.54	45.16	42.94
● KAP-11AG-24	DPDT	24	85	16M9026	63.46	61.57	58.55
● KAP-11AG-120	DPDT	120	2250	16M9025	63.46	61.57	58.55
● KAP-14AG-120	3PDT	120	2250	16M9030	69.77	67.70	64.38

DC VOLTS, 5A ENCLOSED

● KAP-11DY-12	DPDT	12	120	24F2573	61.17	59.35	56.44
● KAP-11DY-24	DPDT	24	472	16M9029	61.17	59.35	56.44
● KAP-14DY-24	3PDT	24	472	16M9032	114.25	91.40	86.83

DC VOLTS, 10A OPEN

● KA-5DG-6	SPDT	6	32	45F023	26.16	25.38	24.14
● KA-11DG-12	DPDT	12	120	45F028	30.85	29.93	28.46
● KA-11DG-24	DPDT	24	472	16M9020	30.85	29.93	28.46
● KA-11DG-110	DPDT	110	10000	16M9019	26.51	25.73	24.46
● KA-14DG-24	3PDT	24	472	16M9023	34.85	33.81	32.15
● KA-14DG-110	3PDT	110	10000	16M9022	34.14	33.13	31.50

DC VOLTS, 10A ENCLOSED

● KAP-11DG-24	DPDT	24	472	24F2571	55.53	53.88	51.23
● KAP-11DG-110	DPDT	110	10000	16M9028	23.99	23.28	22.14
● KAP-14DG-24	3PDT	24	472	16M9031	78.11	75.78	72.06

SOCKETS AND ACCESSORIES

Mfg. Part No.	Description	Hold Down Spring	Stock No.	Price Each	
				1-24	25-49
● 27E122	Screw Terminal 8-Pin Octal Socket	...	57F3431	4.68	4.29
● 27E891	Screw Terminal 8-Pin Octal Socket, DIN Mount	20C318	46F3587	5.52	5.03
● 27E123	Screw Terminal 11-Pin Octal Socket	...	57F3432	5.17	4.75
● 27E892	Screw Terminal 11-Pin Octal Socket, DIN Mount	20C318	46F3588	7.55	6.93

(3109)

PLUG-IN/INDUSTRIAL RELAYS – SQUARE

P&B 10A SINGLE AND DUAL COIL MAGNETIC LATCHING RELAYS



Just Added

KUL series magnetic latching relays require only half the space of mechanical latching relays. Designed for continuous duty in applications demanding good memory stability. Contacts are silver-cadmium oxide, 10A at 28VDC resistive or 240VAC, 80% PF. AC coil relays include diodes. Dimensions: 2.156" H x 1.531" x W1.406" D. See also the Relay Socket Usage Guide.

AC RELAYS

Mfg. Part No.	Coil Voltage (VAC)	Contacts	Coil	Coil Resist. (Ω)	Stock No.	Price Each	
						1-24	25-49
● KUL-11A15S-24	24	DPDT	Single	176	17M0242	40.29	35.26
● KUL-11A15D-24*	24	DPDT	Dual	2525/7800	98B8985	62.40	59.37
● KUL-5A15S-120	120	SPDT	Single	3700	24F3250	36.54	34.76
● KUL-11A15S-120	120	DPDT	Single	3700	17M9930	39.21	35.94

DC RELAYS

Mfg. Part No.	Coil Voltage (VDC)	Contacts	Coil	Coil Resist. (Ω)	Stock No.	Price Each	
						1-9	10-24
● KUL-11D15S-12	12	DPDT	Single	120	17M0245	29.84	28.39
● KUL-11D15D-12	12	DPDT	Dual	90	06R3600	49.08	46.70
● KUL-11D15S-24	24	DPDT	Single	472	17M0246	30.97	28.40
● KUL-11D15D-24	24	DPDT	Dual	350	17M0243	50.94	46.69
● KUL-11D15D-48	48	DPDT	Dual	1400	17M0244	53.99	47.25
● KUL-11D15D-110	110	DPDT	Dual	...	96B8729	54.15	51.52

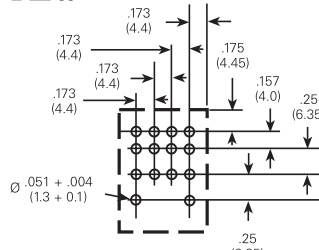
SOCKETS

Mfg. Part No.	Description	Stock No.	Price Each	
			1-24	25-49
● 27E121	Rectangular Screw Terminal Socket	57F3430	6.67	6.11
● 24A071	Retainer Clip (2 Required for Track Mounting)	20M7089	2.13	1.94

* Coil resistance is 2525Ω latch and 7800Ω reset. (3257)

SCHRACK 6-12A LOW-PROFILE MINIATURE PLUG-IN RELAYS

Just Added



- Low-profile height of 29mm
- DPDT, 3PDT, or 4DPT contacts

PT series miniature plug-in relays feature greater switching performance (up to 3,000VA), AC and DC coils, mechanical indicator and a manual test-tab with locking option. Nominal coil power is 750mW for DC and 1.0VA for AC mfg part no. Dimensions: 1.102H x 1.14W x 0.882"D. Solder terminal length is 0.236". UL recognized, CE compliant, VDE approved. PC board thru-hole mounting style is also available; go online or call. Sockets available below. See also the Relay Socket Usage Guide.

DC RELAYS

Mfg. Part No.	Current (A)	Contacts	Coil Voltage (VDC)	Coil Resist. (Ω)	Stock No.	Price Each	
						1-24	25-49
● PT570012	6	4PDT	12	192	36K2014	5.80	5.07
● PT570024	6	4PDT	24	777	96B1112	5.80	5.07
● PT570048	6	4PDT	48	3072	36K7591	6.73	5.89
● PT570110	6	4PDT	110	16133	08H3375	4.05	3.90
● PT370012	10	3PDT	12	192	35K3220	4.34	4.17
● PT370024	10	3PDT	24	777	36K3458	6.11	5.35
● PT270012	12	DPDT	12	192	36K7586	5.36	4.69
● PT270024	12	DPDT	24	777	96B1035	5.36	4.69

AC RELAYS

Mfg. Part No.	Current (A)	Contacts	Coil Voltage (VAC)	Coil Resist. (Ω)	Stock No.	Price Each	
						1-24	25-49
● PT570524	6	4PDT	24	192	36K3459	5.91	5.17
● PT570615	6	4PDT	115	4845	35K4840	6.21	5.43
● PT570730	6	4PDT	230	19465	96B1122	7.25	6.35
● PT370524	10	3PDT	24	192	96B1104	6.22	5.34

▶ CONTINUED ▶

SCHRACK 6-12A LOW-PROFILE MINIATURE PLUG-IN RELAYS (CONT.)

AC RELAYS

Mfg. Part No.	Current (A)	Contacts	Coil Voltage (VDC)	Coil Resist. (Ω)	Stock No.	Price Each	
						1-24	25-49
● PT370730	10	3PDT	230	19465	36K7590	6.75	6.49
● PT270524	12	DPDT	24	192	36K7587	5.48	4.79
● PT270615	12	DPDT	115	4845	36K7588	5.77	5.05
● PT270730	12	DPDT	230	19465	35K3219	6.44	5.63

SOCKETS

Mfg. Part No.	Socket Termination	Mounting Style	No. of Poles	Stock No.	Price Each		
					1-24	25-49	50-99
● 27E220	0.218" (5.54) Solder Terminals	PC Board	2	01C7962	1.39	1.22	1.16
● 27E894	Screw Terminals	DIN Rail	4	46F3589	7.92	7.25	6.70
● 27E023	0.218" (5.54) Solder Terminals	PC Board	4	95F7966	1.34	1.22	1.12
● 27E006	0.375" (9.53) Solder Terminals	Panel Cutout	4	57F3422	1.64	1.50	1.39
● PT78702	Screw Terminals	DIN Rail	2	36K2015	4.54	4.32	4.00
● PT78720	Screw Terminals	DIN Rail	2	08H3385	1.46	1.41	1.35
● PT78740	Screw Terminals	DIN Rail	4	08H3386	2.13	2.05	1.97

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each		
			1-49	50-99	100+
● PT28800	Metal Retaining Clip, For Use with Mfg. part nos. PT78722 and PT78742	33C3572	0.25	0.24	0.23

(65380)

SCHRACK POWER RELAYS

Just Added



- For direct control of squirrel-cage motors, water heaters, and night storage heaters
- Used as power relays in electrical appliances
- Push-to-test button and mechanical indicator
- DC- or AC-coil
- 2 / 3 pole 10 / 16 A, 2 CO or 3 CO contacts
- RM8: 2 pole 25 A, 2 CO contacts
- Switching capacity: up to 6000VA
- Plug-in version, PCB terminals, chassis- or DIN-rail mount
- RoHS compliant (Directive 2002/95/EC) as per product date code 0415



RM2, 3, and 7 series rated up to 16A @ 380VAC (440 max. breaking voltage). RM8 series rated up to 25A @ 250VAC (440 max. breaking voltage). Relays have a mechanical life of ~20 x 10⁶. Dielectric strength: coil-contact 2500VAC; contact-contact 2500VAC; pole-pole 2500VAC. UL recognized, CE compliant, VDE approved. Order sockets and hold down springs separately below. PC terminal versions and VDE approved with 3mm contact gap versions also available; go online or call. Models with 3mm contact gap (RM5/6) and models with 30A rating (RMC/D) also available; call Newark.

DC RELAYS—SOCKET MOUNT WITH .187" (4.75) PLUG-IN TERMINALS

Mfg. Part No.	Contacts	Carry Current (A)	Coil Voltage (VAC)	Coil Resist. (Ω)	Enclosure	Stock No.	Price Each
							1-24
● RM 202 012	DPDT	16	12	110	Plain cover, 4.8mm Q.C. terminals	52F911	12.22
● RM 203 012	DPDT	16	12	110	Cover w/mounting brackets, 4.8mm Q.C terminals	52F916	11.46
● RM 202 024	DPDT	16	24	475	Plain cover, 4.8mm Q.C. terminals	52F912	12.22
● RM 302 024	3PDT	10	24	475	Plain cover, 4.8mm Q.C. terminals	17M1759	13.62
● RM 702 012	3PDT	16	12	86		52F943	12.77
● RM 702 024	3PDT	16	24	345		52F944	14.58

DC RELAYS—SIDE FLANGE-MOUNT WITH .250" (6.35) PLUG-IN TERMINALS

● RM 805 012	DPDT	25	12	110	Cover w/mounting brackets, 4.8mm Q.C terminals	52F957	16.90
● RM 805 024	DPDT	25	24	475	Cover w/mounting brackets, 4.8mm Q.C terminals	52F958	13.31
● RM838024	DPDT	25	24	475	Cover w/DIN-snap-on attachment, horizontal, 6.3mm Q.C. terminals	90C0447	18.97

AC RELAYS—SOCKET MOUNT WITH .187" (4.75) PLUG-IN TERMINALS

Mfg. Part No.	Contacts	Carry Current (A)	Coil Voltage (VAC)	Coil Resist. (Ω)	Enclosure	Stock No.	Price Each
							1-9
● RM 203 615	DPDT	16	24	86	Cover w/mounting brackets, 4.8mm Q.C terminals	52F919	11.46
● RM 205 615	DPDT	16	115	2000	Cover w/mounting brackets, 6.3mm Q.C terminals	17M1758	13.25
● RM 702 524	3PDT	16	24	80	Plain cover, 4.8mm Q.C. terminals	52F945	8.59
● RM 703 024	3PDT	16	24	475	Cover w/mounting brackets, 4.8mm Q.C terminals	52F948	12.77

▶ CONTINUED ▶

PLUG-IN/INDUSTRIAL RELAYS – SQUARE

SCHRACK POWER RELAYS (CONT.)

AC RELAYS—SOCKET MOUNT WITH .187" (4.75) PLUG-IN TERMINALS

Mfg. Part No.	Contacts	Carry Current (A)	Coil Voltage (VAC)	Coil Resist. (Ω)	Enclosure	Stock No.	Price Each
● RM 705 024	3PDT	16	24	475	Cover w/mounting brackets, 6.3mm Q.C terminals	52F951	12.77
● RM 702 615	3PDT	16	115	1850	Plain cover, 4.8mm Q.C. terminals	52F946	12.59
● RM 705 615	3PDT	16	115	1850	Cover w/mounting brackets, 6.3mm Q.C terminals	52F953	11.81

AC RELAYS—SIDE FLANGE-MOUNT WITH .250" (6.35) PLUG-IN TERMINALS

● RM 805 524	DPDT	25	24	80	Cover w/mounting brackets, 6.3mm Q.C terminals	52F959	14.80
● RM 805 615	DPDT	25	115	1850	Cover w/mounting brackets, 6.3mm Q.C terminals	17M1760	15.38

SOCKETS

Mfg. Part No.	Termination	Hold Down Spring	Stock No.	Price Each	
● RM78700	.187 (4.75) QC Terminals	RM28802	36K2033	1-24	25-49
● RM78701	Solder Terminals	RM28802	36K3467	2.49	2.18
● RM78702	.142 (3.61) PCB Terminals	RM28802	36K3468	4.38	3.83
● RM78705	Screw Terminals	...	17M1781	4.12	3.75
				17.12	14.99

30A - 200A SERIES DC POWER RELAYS



- Contact Form: SPST-NO
- Interrupt high-capacity loads
- Consume less power than conventional relays
- Low noise level during switching



G9EA-1 Series



G9EC-1 Series

The switching section and driving section are gas-injected and hermetically sealed, allowing these compact relays to interrupt high-capacity loads and high-voltage circuits. The sealed construction also requires no arc space, saves space, and helps ensure safe applications. Operating temperature: -40°C to +70°C (mfg. part nos. G9EA-); -40°C to +50°C (mfg. part nos. G9EC-). UL/CSA approval pending.

G9EA-1 SERIES RELAYS M3.5 SCREW TERMINALS

Mfg. Part No.	Coil Voltage (VDC)	Carry/Switching Current (A)	Coil Resistance (Ω)	Stock No.	Price Each	
● G9EA-1 DC12	12	60/100	28.8	34K3631	1-5	6-14
● G9EA-1-B-CA-DC12	12	100/30	28.8	17M6697	129.57	123.94
● G9EA-1-CA-DC12	12	100/30	28.8	17M6698	153.13	146.47
● G9EA-1 DC24	24	60/100	115.2	36K1959	198.64	180.58
● G9EA-1-B-CA-DC24	24	100/30	115.2	09J1726	128.29	122.71
● G9EA-1-CA-DC24	24	100/30	115.2	17M6699	153.13	146.47

G9EC-1 SERIES RELAYS NUT TERMINALS

● G9EC-1 DC12	12	200/200	12.8	36K3251	259.15	247.87
● G9EC-1-B DC12	12	200/200	12.8	36K3253	259.14	247.87
● G9EC-1 DC24	24	200/200	51.2	36K3252	259.15	247.87
● G9EC-1-B DC24	24	200/200	51.2	35K4546	259.15	247.87

25A GENERAL-PURPOSE RELAYS



- Ideal for 3-phase resistive and inductive motor control applications
- No contact chattering for momentary voltage drops up to 50% of rated voltage
- Withstand more than 4 kV between contacts that are of different polarity and between the coil contacts
- Flame-resistant materials (UL94V-0) used for all insulation
- Push-to-test button on all models
- Termination configuration - screw terminal

Applications:

- Compressors for air conditioners and heater switching controllers
- Switching controllers for power tools or motors
- Lamp controls, motor drivers, and power supply switching controllers in copy machines, fax machines, and other office equipment
- Power controllers for packers, food processing equipment and inverters



Contains the relay and bracket packed together. The rated current and coil resistance are measured at a coil temperature of 23°C (73°F) with tolerances of +15%/-20% for AC rated current and ±15% for DC coil resistance.

➔ CONTINUED ➔

25A GENERAL-PURPOSE RELAYS (CONT.)

Mfg. Part No.	Coil Voltage	Coil Resist. (Ω)	Construction	Input Power/Current	Stock No.	Price Each
● G7J-2A2-B-B-W1-AC100/120	110/120VAC	*	Unsealed	1.8-2.6 VA	36K1955	27.94
● G7J-2A2-B-B-W1-AC200/240	200/240VAC	*	Sealed	1.8-2.6 VA	15C6993	28.82
● G7J-2A2-B-B-W1-DC24	24VDC	288	Unsealed	2W	15C6994	25.43
● G7J-3A1-B-B-W1-AC100/120	100/120VAC	*	Unsealed	1.8-2.6 VA	15C6995	27.94
● G7J-3A1-B-B-W1-AC200/240	200/240VAC	*	Unsealed	1.8-2.6 VA	15C6996	28.82
● G7J-3A1-B-B-W1-DC24	24VDC	288	Unsealed	2W	15C6997	25.43
● G7J-4A-B-W1-AC100/120	100/120VAC	*	Unsealed	1.8-2.6 VA	88K1108	27.94
● G7J-4A-B-W1-AC200/240	200/240VAC	*	Unsealed	1.8-2.6 VA	15C6999	28.82
● G7J-4A-B-W1-DC24	24VDC	288	Unsealed	2W	15C7000	32.93

*Per Omron technical support the coil resistance of the AC relays does not calculate into the function of the relay. (75416)

20A GENERAL-PURPOSE RELAYS



- Miniature relay ideal for switching motor load, lamp load, heater, etc.
- Creepage distance >2.03mm (0.08")
- Upper mounting bracket type for easy wiring and mounting
- Max. operating voltage: 250VAC, 125VDC
- Max. permissible load: 1100mA, 5VDC
- Operate time/release time: 20ms/20ms Max.
- Dimensions: 1.14H x 2W x 1.28"D (28.95H x 50.8W x 32.51mmD)



SPDT CONTACTS

Mfg. Part No.	Coil Voltage (VAC)	Quick-Connect Terminal	Stock No.	Price Each		
● G4B-112T1-C-US-AC24	24	#187	67K9348	11.87	11.14	10.64
● G4B-112T1-FD-C-US-RPAC24	24	#250	89C5809	9.37	8.76	8.42
● G4B-112T1-C-US-AC120	120	#110	67K9347	7.92	7.42	7.09
● G4B-112T1-FD-C-US-RPAC120	120	#187	18M9093	9.37	8.76	8.42
● G4B-112T1-C-US-AC120	120	#187	17M6676	7.91	7.43	7.08
● G4B-112T1-FD-C-US-RPAC240	240	#250	89C5810	9.52	8.90	8.55

SPST-NO CONTACTS

● G4B-112T1-US-AC120	120	#110	89C5775	11.04	10.35	9.89
● G4B-112T1-FD-US-RP-AC120	120	#187	18M9094	8.82	8.24	7.92

DC versions no longer available (75458)

25A POWER RELAYS



- AC or DC operation up 480V
- 4PDT contacts
- 100,000 cycles @ load
- 35A @ 277VAC
- 20A @ 30VDC
- Screw terminations standard, QC available



35D203

Screw-terminal units have silver-cadmium oxide contacts rated 25A at 277VAC, 50/60Hz resistive, or 1HP per moveable arm at 120 or 240VAC single phase. Mount by one front key hole and two rear channel slots for 8-32 screws on 2 x 2.5" (50.80 x 63.50) triangular centers. Plastic and metal covers available. Dimensions: 2.657L x 3.394W x 2.719"H. UL listed file no. E22575, CSA certified file no. 15374. Covered versions also available, go online or call Newark

AC COIL VOLTAGE

Mfg. Part No.	Coil Voltage (VAC)	Coil Resist. (Ω)	Stock No.	Price Each			
PM-17AY-24	24	5	24F1432	1-14	15-24	25-49	50-99
PM-17AY-120	120	120	24F1433	79.11	72.37	69.01	65.98
PM-17AY-240	240	587	24F1434	79.11	72.37	69.01	65.98
				98.28	89.92	85.74	81.97

DC COIL VOLTAGE

PM-17DY-12	12	33	24F1427	79.11	72.37	69.01	65.98
PM-17DY-24	24	132	24F1428	79.11	72.37	69.01	65.98
PM-17DY-110	110	2760	24F1429	98.28	89.92	85.74	81.97

PM DUST COVER

Mfg. Part No.	L	W	H	Material	Stock No.	Price Each			
35D203	3.394"	2.657"	2.19"	Plastic	57F3460	1-9	10-24	25-49	50-99
						10.03	9.30	8.29	6.89

PLUG-IN/INDUSTRIAL RELAYS – OCTAL

D15 SERIES GENERAL PURPOSE RELAYS



Just Added

Features:

- For plug-in sockets, 35 mm DIN rail mount, or on panel mounting
- Cadmium - free contacts - relays D15 2C/0, D15 3C/0
- W7: mechanical indicator + lockable front test button
- Relays may be provided with the test buttons type P (no latching) and plugs

Specifications:

- Max. inrush current: 20A
- Rated current: 10A
- Max. breaking capacity: 2500VA
- Resistance: less than 100milliohms
- Max. operating frequency (at rated load): 1200 cycle per second

DC COIL VERSION

Mfg. Part No.	Carry Current (A)	Contacts	Coil Voltage (VDC)	Coil Resist. (Ω)	Stock No.	Price Each		
						1-9	10-14	15-19
● D15-2012-23-1024-WTL	10	DPDT-2C/0	24	430	78M6804	8.18		
● D15-2013-23-1012-WTL	10	3PDT-3C/0	12	110	78M6808	9.08		
● D15-2013-23-1024-WTL	10	3PDT-3C/0	24	430	78M6809	9.08		

AC COIL VERSION

Mfg. Part No.	Carry Current (A)	Contacts	Coil Voltage (VAC)	Coil Resist. (Ω)	Stock No.	Price Each		
						1-9	10-14	15-19
● D15-2012-23-5012-WTL	10	DPDT-2C/0	12	18.5	78M6805	8.18		
● D15-2012-23-5024-WTL	10	DPDT-2C/0	24	75	78M6806	8.18		
● D15-2012-23-5120-WTL	10	DPDT-2C/0	120	1910	78M6807	8.50		
● D15-2013-23-5012-WTL	10	3PDT-3C/0	12	18.5	78M6810	9.08		
● D15-2013-23-5024-WTL	10	3PDT-3C/0	24	75	78M6811	9.08		
● D15-2013-23-5120-WTL	10	3PDT-3C/0	120	1910	78M6812	9.44		

RELAY SOCKETS

Mfg. Part No.	Current (A)	For Use With	Mounting	Termination	Stock No.	Price Each	
						1-9	10-14
● DZ8	10	D15 Series, DPDT	DIN Rail/Panel	Screw	78M6803	4.77	
● DZ11	10	D15 Series, 3PDT	DIN Rail/Panel	Screw	78M6801	4.97	

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each	
			1-9	10-14
● DZ11-0031	Clip, For use with: Mfg. part no. DZ8 and DZ11	78M6802	0.27	

10A GENERAL-PURPOSE RELAYS



- High reliability and long service life
- DPDT or 3PDT pure silver contacts
- Available with octal 8-pin and 11-pin terminals
- Worldwide approvals on octal models
- Options include check button for test operation and indicator light
- Mounting options include flange mounting, DIN socket, or panel mount socket

Contact material is silver. Operating time: 25ms. Release time: 25 ms. Temperature range: -25°F to +158°F for non-latching relays, -30°C to +70°C for dual-coil latching relays. Mount into standard 8- or 11-pin octal sockets. Sockets ordered separately, below. UL recognized, CSA certified, CE compliant, TUV approved.



8-Pin



11-Pin

8-PIN TERMINATION

Mfg. Part No.	Contacts	Coil Voltage	Coil Resist. (Ω)	Indicator Light	Stock No.	Price Each		
						1-4	5-9	10-14
RR2P-UAC24V	DPDT	24VAC	79	N	91F5535	17.16	16.43	15.47
RR2P-ULAC24V	DPDT	24VAC	79	Y	91F5539	19.88	19.03	17.92
RR2P-UAC120V	DPDT	120VAC	2100	N	91F5536	17.16	16.43	15.47
RR2P-ULAC120V	DPDT	120VAC	2100	Y	91F5540	19.88	19.03	17.92
RR2P-UDC12V	DPDT	12VDC	100	N	91F5537	16.88	16.15	15.21
RR2P-ULDC12V	DPDT	12VDC	100	Y	91F5541	19.50	18.67	17.58
RR2P-UDC24V	DPDT	24VDC	400	N	91F5538	16.88	16.15	15.21
RR2P-ULDC24V	DPDT	24VDC	400	Y	91F5542	19.50	18.67	17.58

➤ CONTINUED ➤

11-PIN TERMINATION

Mfg. Part No.	Contacts	Coil Voltage	Coil Resist. (Ω)	Indicator Light	Stock No.	Price Each		
						1-4	5-9	10-14
RR3PA-UAC120V	3PDT	120VAC	2100	N	91F5544	20.91	20.01	18.85
RR3PA-ULAC120V	3PDT	120VAC	2100	Y	91F5548	23.63	22.61	21.29
RR3PA-UAC12V	3PDT	12VDC	100	N	91F5545	20.77	19.88	18.72
RR3PA-ULDC12V	3PDT	12VDC	100	Y	91F5549	23.49	22.48	21.17
RR3PA-UAC24V	3PDT	24VDC	400	N	91F5546	20.77	19.88	18.72
RR3PA-ULDC24V	3PDT	24VDC	400	Y	16F309	23.49	22.48	21.17

11-PIN TERMINATION, DUAL-COIL LATCHING

RR2KP-UAC120V	DPDT	120VAC	2200	N	16F306	35.37	33.86	31.88
RR2KP-UAC12V	DPDT	12VDC	100	N	16F308	33.34	31.91	30.05
RR2KP-UAC24V	DPDT	24VDC	400	N	91F5566	33.34	31.91	30.05

SOCKETS AND ACCESSORIES

Mfg. Part No.	For Use With Relay Series	Description	Stock No.	Price Each	
				1-4	5-9
● SR3P-05	RR3PA, RR2KP	2-Pole Snap DIN Rail Mount Socket	13M2996	7.22	6.91
● SR3P-06	RR3PA, RR2KP	2-Pole Snap DIN Rail Mount Socket	18M9335	7.27	6.55
● SR3P-05C	RR3PA, RR2KP	2-Pole Finger-Safe DIN Rail Mount Socket	13M2997	9.15	8.76
● SR3P-51	RR3PA, RR2KP	2-Pole Panel Mount Socket	13M2998	1.44	1.38
● SR3P-06F3	RR2KP	Hold-Down Spring for Use with SR3P-05	31B3702	0.65	0.63
● SR3P-51F3	RR2KP	Hold-Down Spring for Use with SR3P-06	31B3704	0.56	0.54
● SR2P-51	RR2P	2-Pole Panel Mount Socket	13M2992	1.29	1.24
● SR2P-05	RR2P	2-Pole Standard DIN Rail Mount Socket	13M2990	4.76	4.56
● SR2P-05C	RR2P	2-Pole Finger-Safe DIN Rail Mount Socket	14M8237	5.76	5.51
● SR2P-06	RR2P	2-Pole Standard DIN Rail Mount Socket	13M2991	4.54	4.09
● SR2B-02F1	RR2P	Hold-Down Spring for Use with SR2P-05, -05C, -06	31B3692	0.23	0.22
● SR3P-01F1	RR2P	Hold-Down Spring for Use with SR2P-51	31B3699	0.70	0.67
● SR3B-02F1	RR3PA	Hold-Down Spring for Use with SR3B-05, SR3B-51	91F6258	0.43	0.41
● BNDN1000	All	35mm 1 Meter Low-Profile Aluminum DIN Rail with Holes	96F6501	8.15	7.18
● BNL-5	All	DIN Rail Metal End Clip	66M8411	1.37	1.24

16A MAGNETIC LATCHING RELAYS



Just Added



755 Series Octal Base



785 Series Square Base

755 Octal Relay:

- 16A
- DPDT
- 11-pin octal base
- Dimensions: 1.37"H x 1.37"W x 2.33"L
- UL recognized file no. E43641, CSA certified
- Mates with socket mfg. part no. 70-465-1, 70-750DL11-1 and 70-750EL11-1

785 Square Base Relay:

- 16A
- DPDT
- Square base
- Dimensions: 1.40"L x 1.53"W x 1.90"H
- UL recognized file no. E43641, CSA certified and CE compliant
- Mates with socket mfg. part no. 70-463-1, 70-788EL11-1

755 SERIES OCTAL BASE RELAYS

Mfg. Part No.	Latching	Coil Voltage	Coil Resist. (Ω)	Stock No.	Price Each	
					1-9	10-24
● 755XBXC-24A	Single Coil	24VAC	740	10M6506	16.09	14.74
● 755XBXC-120A	Single Coil	120VAC	10000	72J4300	16.08	14.73
● 755XBXC-12D	Dual Coil	12VDC	88	10N9138	16.93	15.58
● 755XBXC-24D	Dual Coil	24VDC	350	72J4305	15.78	14.46
● 755XBXC-110D	Dual Coil	110VDC	9000	10M6508	15.18	13.91

785 SERIES SQUARE BASE RELAYS

● 785XBXC-12D	Single Coil	12VDC	120	16M1134	19.56	17.84
● 785XBXC-24D	Single Coil	24VDC	470	16M1136	13.70	12.50
● 785XBXC-120A	Single Coil	120VAC	10000	16M1135	15.01	13.93
● 785XBXC-12D	Dual Coil	12VDC	88	16M1137	10.26	9.53

(75471)

PLUG-IN/INDUSTRIAL RELAYS – OCTAL

12-16A OCTAL PLUG-IN RELAYS

Full Featured Cover:

- Flag indicator for relay status in manual or powered condition
- LED lamp for coil "on" or "off" status
- Manual push button for operation of relay without coil power
- Lock-down door holds contacts in operate position
- Removable ID tag for write-on surface
- Dimensions: 1.4"L x 1.4"W x 2.2"H
- Operating temperature: -40°C to +55°C

Plain Cover:

- Flag indicator for relay status in manual or powered condition
- ID tag for write-on surface
- Dimensions: 1.4"L x 1.4"W x 2.1"H
- Operating temperature: -40°C to +55°C

Hermetically Sealed Relay:

- Class 1, Division 2 certification for hazardous locations
- Ideal for harsh environments



Full Featured Cover



Plain Cover



Hermetically Sealed Relay



- Dimensions: 1.44"L x 1.61"W x 2.1"H
- Operating temperature: -40°C to +55°C

8-PIN DPDT OCTAL PLUG-IN RELAYS

Full Featured		Plain Coverwith Flag		Carry Current (A)	Coil Voltage	Coil Resist. (Ω)	Mating Sockets	Full Featured		Plain Coverwith Flag	
Mfg. Part No.	Mfg. Part No.	[StockNo]	Price Each					[StockNo]	Price Each		
750XBXM4L-24A	750XBXC-24A	16	24VAC	72	70-464-1 70-750DL8-1 70-750E8-1 70-750EL8-1	10M6489	12.11	72J4276	7.93		
750BXM4L-110/120A	750XBXC-110/120A	16	120VAC	1700		10M6484	9.70	10M6474	11.23		
750BXM4L-220/240A	750XBXC-220/240A	16	240VAC	7200		10M6488	20.07	10M6476	13.46		
750BXM4L-12D	750XBXC-12D	16	12VDC	120		10M6486	11.94	10M6475	9.56		
750BXM4L-24D	750XBXC-24D	16	24VDC	470		10M6490	11.95	10M6477	10.52		
750BXM4L-110/125D	750XBXC-110/125D	16	125VDC	10000		10M6485	13.97	72J4273	11.54		

11-PIN 3PDT OCTAL PLUG-IN RELAYS

Full Featured		Plain Coverwith Flag		Carry Current (A)	Coil Voltage	Coil Resist. (Ω)	Mating Sockets	Full Featured		Plain Coverwith Flag	
Mfg. Part No.	Mfg. Part No.	[StockNo]	Price Each					[StockNo]	Price Each		
750XCXM4L-24A	...	16	24VAC	72	70-465-1 70-750DL11-1 70-750E11-1 70-750EL11-1	10M6504	14.17	...	...
750CXM4L-110/120A	750XCXC-120A	16	120VAC	1700		10M6500	15.83	10M6492	13.28		
750CXM4L-220/240A	750XCXC-220/240A	16	240VAC	7200		72J4293	15.22	10M6495	19.38		
750CXM4L-12D	750XCXC-12D	16	12VDC	120		10M6502	14.24	10M6494	17.87		
750CXM4L-24D	750XCXC-24D	16	24VDC	470		10M6505	13.92	10M6497	17.87		
750CXM4L-110/125D	750XCXC-110/125D	16	125VDC	10000		10M6501	22.79	10M6493	18.94		

8-PIN DPDT OCTAL HERMETICALLY SEALED RELAYS

Mfg. Part No.	Dual Marking	Carry Current (A)	Coil Voltage	Coil Resist. (Ω)	Mating Sockets	Stock No.	Price Each
750XBXH-12D	KR-11DGE-12	12	12VDC	120	70-464-1 70-750DL8-1 70-750E8-1	10M6480	72.24
750XBXH-24A	KR-11AGE-24	12	24VAC	1700		10M6482	80.38
750XBXH-24D	KR-11DGE-24	12	24VDC	470		10M6483	66.04
750XBXH-120A	KR-11AGE-120	12	120VAC	9100		10M6481	73.08
750XBXH-110D	KR-11DGE-110	12	110VDC	10000		10M6478	113.19

11-PIN 3PDT OCTAL HERMETICALLY SEALED RELAYS

Mfg. Part No.	Dual Marking	Carry Current (A)	Coil Voltage	Coil Resist. (Ω)	Mating Sockets	Stock No.	Price Each
750XCXH-24A	KR-14AGE-24	12	24VAC	72	70-465-1 70-750DL11-1 70-750E11-1	69H9983	123.04
750XCXH-24D	KR-14DGE-24	12	24VDC	470		10M6499	79.70
750XCXH-110D	KR-14DGE-110	12	110VDC	10000		35K3547	119.05
750XCXH-120A	KR-14AGE-120	12	120VAC	9100		10M6498	71.54

OCTAL SOCKETS - ALL TOUCH SAFE AND DIN/PANEL MOUNTABLE

Mfg. Part No.	Description	Contacts	Stock No.	Price Each
70-464-1	Screw terminals, hold-down clip compatible	DPDT	10M6441	2.41
70-465-1	Screw terminals, hold-down clip compatible	3PDT	10M6442	3.37
70-750DL8-1	Logic style, screw terminals, module and bus jumper compatible	DPDT	19M0188	5.64
70-750DL11-1	Logic style, screw terminals, module and bus jumper compatible	3PDT	29M8622	8.34
70-750E8-1	Elevator terminals, module and ID tag compatible	DPDT	72J4086	3.86
70-750E11-1	Elevator terminals, module and ID tag compatible	3PDT	72J4085	4.41
70-750EL8-1	Logic style, elevator terminals, module, bus jumper and ID tag compatible	DPDT	72J4084	4.74
70-750EL11-1	Logic style, elevator terminals, module, bus jumper and ID tag compatible	3PDT	72J4083	5.82

(72356)

10A PLUG-IN RELAYS



- Features:
- Mechanical indicator standard on all models
 - Optional lockable test button and/or LED indicator
 - Octal base
 - Wider operating temperature
 - Versions with built-in varistors and diodes are also available; go online or call

- Specifications:
- Contact rating: 10A at 250VAC
 - Impulse withstand voltage: 4.5kV
 - Nom. coil voltage: 1.4W
 - Electrical life min: 100,000 ops
 - Operating temperature: -40°C to 60°C



▶ CONTINUED ▶

10A PLUG-IN RELAYS (CONT.)

MECHANICAL INDICATOR

Mfg. Part No.	Carry Current (A)	Contacts	Coil Voltage	Coil Resist. (Ω)	Stock No.	Price Each		
MKS2P AC120	10	DPDT	120VAC	1130	04R7311	9.92	9.33	8.90

MECHANICAL INDICATOR AND PUSH-TO-TEST BUTTON

MKS2PI AC12	10	DPDT	12VAC	13.7	04R7312	9.12	8.57	8.18
MKS2PI AC24	10	DPDT	24VAC	48.4	04R7314	9.12	8.57	8.18
MKS2PI AC120	10	DPDT	120VAC	1130	04R7313	9.92	9.33	8.90
MKS2PI AC240	10	DPDT	240VAC	4480	04R7315	10.82	10.18	9.71
MKS2PI DC12	10	DPDT	12VDC	107	04R7317	9.12	8.57	8.18
MKS2PI DC24	10	DPDT	24VDC	430	04R7318	9.12	8.57	8.18
MKS2PI DC110	10	DPDT	110VDC	8960	04R7316	10.82	10.18	9.71

▶ CONTINUED ▶

PLUG-IN/INDUSTRIAL RELAYS – OCTAL

10A PLUG-IN RELAYS (CONT.)

MECHANICAL INDICATOR AND PUSH-TO-TEST BUTTON

Mfg. Part No.	Carry Current (A)	Contacts	Coil Voltage	Coil Resist. (Ω)	Stock No.	Price Each		
						1-14	15-24	25-49
● MKS3PI-5 AC24	10	3PDT	24VAC	48.4	04R7326	10.42	9.80	9.35
● MKS3PI-5 AC120	10	3PDT	120VAC	1130	04R7325	11.15	10.49	10.01
● MKS3PI-5 AC240	10	3PDT	240VAC	4480	04R7327	11.78	11.08	10.57
● MKS3PI-5 DC12	10	3PDT	12VDC	107	04R7328	10.42	9.80	9.35
● MKS3PI-5 DC24	10	3PDT	24VDC	430	04R7329	10.42	9.80	9.35

LED INDICATOR

● MKS2PN AC120	10	DPDT	120VAC	1130	04R7323	11.78	11.08	10.57
● MKS2PN DC110	10	DPDT	110VDC	8960	04R7324	11.78	11.08	10.57

LED INDICATOR AND PUSH-TO-TEST BUTTON

● MKS2PIN AC24	10	DPDT	24VAC	48.4	04R7320	10.99	10.34	9.86
● MKS2PIN AC120	10	DPDT	120VAC	1130	04R7319	11.78	11.08	10.57
● MKS2PIN AC240	10	DPDT	240VAC	4480	04R7321	12.57	11.83	11.28
● MKS2PIN DC24	10	DPDT	24VDC	430	04R7322	10.99	10.34	9.86
● MKS3PIN-5 AC120	10	3PDT	120VAC	1130	04R7330	13.03	12.25	11.69
● MKS3PIN-5 DC24	10	3PDT	24VDC	430	04R7331	12.23	11.50	10.97

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each		
			1-14	15-24	25-49
● PFO83A-E	Track-Mounted Socket for SPDT or DPDT Relays (Conforming to DIN EN 50022)	52F3735	3.64	3.42	3.26
● PL08	Back Connecting, Solder Terminal Socket for MK2	35K3218	1.99	1.86	1.78
● PLE08-0	PCB Socket for MK2	17M7523	3.45	3.11	2.76
● PL11	Back Connecting, Solder Terminal Socket for MK3	52F3746	2.32	2.18	2.08
● PLE11-0	PCB Socket for MK3	35K4833	4.13	3.72	3.31
● PF113A-E	Track-Mounted Socket for 3PDT Relays	36K2011	5.23	4.91	4.68
● PFP-100N	DIN Rail Track 1mm x 35mm x 7.3mm	17M7511	5.92	5.55	5.30
● PFP-100N2	DIN Rail Track 1mm x 35mm x 16mm	34K8630	12.62	11.83	11.30
● PFP-50N	DIN Rail Track 0.5m x 35mm x 7.3mm	93B2043	4.72	4.51	4.31
● PFP-M	End Plate for All DIN Rail Tracks	36K3451	0.75	0.72	0.68
● PFC-A1	Relay Hold-Down Clip	36K7584	1.13	1.02	0.91

(3755)

HERMETICALLY SEALED PLUG-IN RELAYS



- DPDT - 12A @ 120VAC, 10A @ 28VDC
- 3PDT - 10A @ 120VAC / 28VDC
- Hermetically sealed steel case
- Vacuum baked / nitrogen filled
- Socket mounted

Highly reliable, general purpose relays have glass melamine insulation for high dielectric strength and resistance to humidity or temperature change. Molded nylon bobbin and coil cover. Contacts: Silver-cadmium oxide, gold flash, rated 10A @ 120/240VAC/28VDC resistive. Steel enclosure filled with dry nitrogen and solder sealed to prevent contamination of internal parts. DPDT mates with socket [SK-CIR8-DS](#) on this page, 3PDT mates with socket [SK-CIR11-DS](#).



Mfg. Part No.	Contacts	Coil Input Voltage	Coil Resist. (Ω)	Stock No.	Price Each			
					1-9	10-24	25-49	50-99
88AHPX-24	DPDT	120 VAC	1000	88K2835	197.23	173.26	154.77	125.32
88AHPX-74	DPDT	240 VAC	5000	91B6367	691.03	607.05	542.27	439.09
88HPX-33	DPDT	12 VDC	100	88K2837	225.80	198.36	177.19	143.48
88HPX-34	DPDT	24 VDC	400	88K2838	180.64	158.69	141.75	114.78
88AHPX-36	3PDT	120 VAC	1000	88K2836	165.98	145.81	130.25	105.47
88AHPX-75	3PDT	240 VAC	5000	81H2941	213.24	187.33	167.33	135.50
88HPX-51	3PDT	12 VDC	100	88K2839	101.70	89.34	79.80	64.62
88HPX-136	3PDT	24 VDC	400	89C3294	675.42	593.34	530.02	429.18

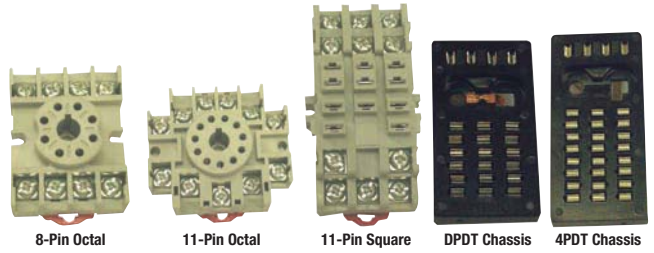
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SOCKETS



DIN / PANEL MOUNT

Mfg. Part No.	Description	Stock No.	Price Each			
			1-14	15-24	25-49	50-99
● SK-CIR8-DS	8-Pin Octal	88K2865	4.74	4.32	4.13	3.94
● SK-CIR11-DS	11-Pin Octal	88K2864	5.92	5.40	5.16	4.92
● SK-SQB11-DS	11-Pin Square	88K2868	5.92	5.40	5.16	4.92

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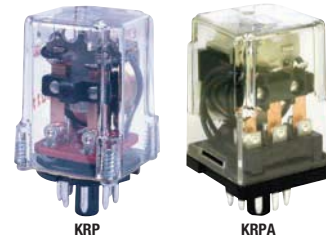
● SK-REC28-PW	DPDT 67 Time Delay	88K2867	4.15	3.78	3.62	3.45
● SK-REC22-PW	4PDT 67 Time Delay	88K2866	2.89	2.64	2.52	2.40

(88709)

P&B 5-10A SERIES GENERAL-PURPOSE SOCKET-MOUNT RELAYS



Just Added



KRP series relays are older version; built on manual line. KRPA series relays are newer version; built on automated, ISO certified line. Order sockets separately; see the Relay Socket Usage Guide.

SPECIFICATIONS

Suffix	Contacts	Approvals
Y	Silver	UL Recognized, CSA Certified
G	Silver Cadmium Oxide	UL Recognized, CSA Certified
N	Silver Cadmium Oxide	UL Recognized and CSA Certified in 110, 120 and 240V Only
E	Silver	UL Recognized for Class 1 Div 2 Hazardous Locations

AC COIL RELAYS

Mfg. Part No.	Carry Current (A)	Contacts	Coil Voltage (VAC)	Indicator	Coil Resist. (Ω)	Stock No.	Price Each	
							1-9	10-24
● KRPA-5AY-120	5	SPDT	120	N	2250	17M0213	26.42	25.16
● KRPA-11AY-12	5	DPDT	12	N	24	18M9135	17.83	14.02
● KRPA-11AY-24	5	DPDT	24	N	85	17M0195	17.29	15.68
● KRPA-11AN-24	5	DPDT	24	Y	85	24F1437	57.11	54.34
● KRPA-11AY-120	5	DPDT	120	N	2250	17M0181	46.62	44.36
● KRPA-11AN-120	5	DPDT	120	Y	2250	24F1438	68.39	62.69
● KRPA-11AY-120	5	DPDT	120	N	2250	21F1078	11.01	10.49
● KRPA-11AY-240	5	DPDT	240	N	9110	21F1079	19.03	15.22
● KRPA-14AY-24	5	3PDT	24	N	85	21F1106	17.91	15.49
● KRPA-14AN-120	5	3PDT	120	Y	2250	24F1329	70.58	67.15
● KRPA-14AY-120	5	3PDT	120	N	2250	21F1107	20.72	19.74
● KRPA-14AY-240	5	3PDT	240	N	9110	21F1108	24.68	17.47
● KRPA-5AG-24	10	SPDT	24	N	85	18M9140	19.06	18.13
● KRPA-5AG-120	10	SPDT	120	N	2250	24F1332	45.92	43.69
● KRPA-5AG-120	10	SPDT	120	N	2250	18M9139	18.13	17.27
● KRPA-11AY-6	10	DPDT	6	N	6	17M0196	17.83	14.02
● KRPA-11AG-6	10	DPDT	6	N	6	17M0191	14.11	12.83
● KRPA-11AG-12	10	DPDT	12	N	24	24F1334	50.97	48.49
● KRPA-11AG-12	10	DPDT	12	N	24	17M0188	17.29	15.68
● KRPA-11AN-12	10	DPDT	12	Y	24	21F1071	18.24	17.38
● KRPA-11AG-24	10	DPDT	24	N	85	17M0180	61.02	54.91
● KRPA-11AN-24	10	DPDT	24	Y	85	21F1072	12.76	11.61
● KRPA-11AG-24	10	DPDT	24	N	85	17M0190	12.36	11.24
● KRPA-11AG-120	10	DPDT	120	N	2250	17M0179	61.04	55.95
● KRPA-11AG-120	10	DPDT	120	N	2250	17M0192	13.23	12.59
● KRPA-11AG-120	10	DPDT	120	N	2250	17M0189	13.20	12.00
● KRPA-11AN-120	10	DPDT	120	Y	2250	17M9928	11.35	10.81
● KRPA-11AG-240	10	DPDT	240	N	9110	24F1696	38.97	37.07

➔ CONTINUED ➔

PLUG-IN/INDUSTRIAL RELAYS – OCTAL • POWER PCB RELAYS

P&B 5-10A SERIES GENERAL-PURPOSE SOCKET-MOUNT RELAYS (CONT.)

Mfg. Part No.	Carry Current (A)	Con-tacts	Coil Voltage (VAC)	Indi-cator	Coil Resist. (Ω)	Stock No.	Price Each	
							1-9	10-24
● KRPA-11AG-240	10	DPDT	240	N	9110	21F1069	19.71	17.86
● KRPA-11AN-240	10	DPDT	240	Y	9110	17M0194	17.58	17.10
KRPA-14AG-12	10	3PDT	12	N	24	21F1095	19.48	15.49
KRP-14AN-24	10	3PDT	24	Y	85	62F3087	49.38	46.98
● KRPA-14AG-24	10	3PDT	24	N	85	17M0207	13.00	12.38
KRPA-14AN-24	10	3PDT	24	Y	85	21F1101	13.40	12.76
● KRP-14AG-120	10	3PDT	120	N	2250	18M9134	62.63	59.58
● KRPA-14AG-120	10	3PDT	120	N	2250	17M0206	12.08	11.51
● KRPA-14AN-120	10	3PDT	120	Y	2250	17M0208	20.93	19.67
● KRP-14AG-240	10	3PDT	240	N	9110	24F2947	53.28	50.69
● KRPA-14AG-240	10	3PDT	240	N	9110	21F1098	21.96	20.92
● KRPA-14AN-240	10	3PDT	240	Y	9110	18M9137	23.30	15.98

DC COIL RELAYS

Mfg. Part No.	Carry Current (A)	Con-tacts	Coil Voltage (VDC)	Indi-cator	Coil Resist. (Ω)	Stock No.	Price Each	
							1-9	10-24
● KRPA-5DY-12	5	SPDT	12	N	120	17M0217	18.70	16.36
● KRPA-5DY-24	5	SPDT	24	N	472	17M0218	23.83	19.67
KRP-11DN-12	5	DPDT	12	Y	120	24F1441	49.81	47.38
● KRPA-11DY-12	5	DPDT	12	N	120	18M9136	11.77	11.21
● KRP-11DY-24	5	DPDT	24	N	472	24F528	40.48	38.51
KRP-11DN-24	5	DPDT	24	Y	472	24F1442	49.81	47.38
● KRPA-11DY-24	5	DPDT	24	N	472	17M0205	11.77	11.20
● KRP-11DG-110	5	DPDT	110	Y	10000	24F1348	56.16	49.14
● KRP-14DG-12	5	3PDT	12	N	120	17M0185	58.17	55.34
KRP-14DN-24	5	3PDT	24	Y	472	67F1119	57.28	54.49
● KRPA-14DY-24	5	3PDT	24	N	472	17M0212	14.96	13.09
● KRP-14DG-110	5	3PDT	110	N	10000	17M0184	58.54	55.69
● KRP-14DG-125	5	3PDT	125	N	10000	08H1579	62.15	59.12
● KRPA-5DG-6	10	SPDT	6	N	32	17M0216	17.24	15.08
● KRPA-5DG-12	10	SPDT	12	N	120	17M0214	24.74	23.56
● KRPA-5DG-24	10	SPDT	24	N	472	17M0215	16.49	15.71
● KRPA-5DG-110	10	SPDT	110	N	10000	21F1060	19.06	18.13
● KRPA-11DG-6	10	DPDT	6	N	32	17M0202	17.64	16.80
● KRP-11DG-12	10	DPDT	12	N	120	29M9948	50.32	47.88
● KRPA-11DG-12	10	DPDT	12	N	120	17M0198	12.36	11.24
KRPA-11DN-12	10	DPDT	12	Y	120	21F1086	15.64	14.18
● KRPA-11DG-24	10	DPDT	24	N	472	18M9133	52.22	47.87
● KRPA-11DGP-24	10	DPDT	24	N	472	17M0203	12.79	12.17
● KRPA-11DG-24	10	DPDT	24	N	472	17M0200	12.36	11.24
KRPA-11DN-24	10	DPDT	24	Y	472	21F1087	10.64	10.13
● KRPA-11DG-48	10	DPDT	48	N	1800	17M0201	18.50	16.79
KRP-11DN-110	10	DPDT	110	Y	10000	24F1443	46.72	44.44
● KRPA-11DG-110	10	DPDT	110	N	10000	17M0197	18.50	16.51
KRPA-11DN-110	10	DPDT	110	Y	10000	21F1088	17.88	14.60
● KRP-11DG-125	10	DPDT	125	N	10000	76M7967	55.91	53.19
● KRPA-11DG-125	10	DPDT	125	N	10000	17M0199	15.11	13.73
● KRPA-14DG-12	10	3PDT	12	N	120	17M0209	11.56	11.00
● KRP-14DG-24	10	3PDT	24	N	472	17M0186	58.94	56.35
KRPA-14DN-24	10	3PDT	24	Y	472	21F1114	13.22	12.59
● KRPA-14DG-24	10	3PDT	24	N	472	17M9929	13.87	12.60
● KRPA-14DG-48	10	3PDT	48	N	1800	17M0210	19.64	16.71
● KRPA-14DG-110	10	3PDT	110	N	10000	18M9138	15.44	14.04
● KRPA-14DG-125	10	3PDT	125	N	10000	01C8539	31.63	25.30
KRPA-14DN-125	10	3PDT	125	Y	...	50B6772	16.04	15.26
● KRP-3DH-24	20	SPST	24	...	472	76M7968	52.12	49.58

SOCKETS AND HARDWARE

Mfg. Part No.	Description	Stock No.	Price Each
● 27E122	Rectangular Screw Terminal Socket Dimensions: 1.572" (39.93) x 2.385" (60.58)	57F3431	4.68
● 27E891	Octal Screw Terminal DIN Rail Mount Socket for use with hold-down spring Mfg. Part No. 20C318	46F3587	5.52
● 27E123	Rectangular Screw Terminal Socket Dimensions: 2.322" (58.98) x 2.385" (60.58)	57F3432	5.17
● 27E892	Octal Screw Terminal DIN Rail Mount Socket for use with hold-down spring Mfg. Part No. 20C318	46F3588	7.55
● 20C318	Hold-down spring for use with octal sockets accommodates machine screws or rivets for KRPA and KRPA-N series	46F3619	0.50

(3120)

P&B 20A KRP-3H SERIES GENERAL-PURPOSE RELAYS

KRP-3H series relays are enclosed in clear polycarbonate dust cover. Many uses in automation controls and other applications requiring high current switching. Heavy copper alloy movable contact arms. Twin silver-cadmium oxide contacts. Operating temperature: -40°C to +85°C. For use with mfg. part no. 27E122 screw terminal socket or mfg. part no. 27E891 screw terminal DIN mount socket and mfg. part no. 20C206 hold down spring; order separately, go online or call.



Mfg. Part No.	Contacts	Coil Input Voltage (VDC)	Indicator Lamp	Coil Resist. (Ω)	Stock No.	Price Each
● KRP-3DH-110	SPST-NO-DM	110	N	10,000	96B8059	65.48
● KRP-3AH-120	SPST-NO-DM	120	N	2,250	17M0187	53.59

(72439)

DM84 SERIES INDUSTRIAL RELAYS

Features:

- Cadmium - free contacts
- Height 15.7mm
- 5000V / 10mm reinforced insulation
- For PCB and plug-in sockets
- AC and DC coils
- Recyclable packing

Specifications:

- Max. inrush current: 15A
- Rated current: 8A
- Max. breaking capacity: 2000VA
- Resistance: less than 100milliohms
- Max. operating frequency: 600cycles/hour
- Operating time: 7ms
- Release time: 3ms
- Mechanical life: 30million cycles
- Operating temperature: -40°C to 70°C



Just Added

DC COIL VERSION

Mfg. Part No.	Carry Current (A)	Contacts	Coil Voltage (VDC)	Coil Resist. (Ω)	Stock No.	Price Each
● DM84-2012-35-1012	8	DPDT-2C/O	12	360	78M6763	2.15
● DM84-2012-35-1024	8	DPDT-2C/O	24	1440	78M6764	3.05

AC COIL VERSION

Mfg. Part No.	Carry Current (A)	Contacts	Coil Voltage (VAC)	Coil Resist. (Ω)	Stock No.	Price Each
● DM84-2012-35-5012	8	DPDT-2C/O	12	100	78M6765	2.15
● DM84-2012-35-5024	8	DPDT-2C/O	24	400	78M6766	3.56
● DM84-2012-35-5120	8	DPDT-2C/O	120	10200	78M6767	4.24

RELAY SOCKETS

Mfg. Part No.	Current (A)	For Use With	Mounting	Termination	Stock No.	Price Each
● DZM80	12	DM84, DM85, DM87L, DM87P Series	DIN Rail/Panel	Screw	78M6796	3.43

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each
● DZ180-0040	Clip, For use with: Mfg. part no. DZM80	78M6800	0.41

(107901)

DM85 SERIES INDUSTRIAL RELAYS

Features:

- Cadmium - free contacts
- Height: 15.7 mm
- 5000V / 10mm reinforced insulation
- For PCB and plug-in sockets
- AC and DC coils
- Recyclable packing

Specifications:

- Max. inrush current: 30A
- Rated current: 16A
- Max. breaking capacity : 4000VA
- Resistance: less than 100milliohms
- Max. operating frequency (at rated load): 600cycles/hour
- Operating time: 7ms
- Release time: 3ms
- Mechanical life: 30million cycles
- Operating temperature: -40°C to 70°C



Just Added

► CONTINUED ►

POWER PCB RELAYS

DM85 SERIES INDUSTRIAL RELAYS (CONT.)

DC COIL VERSION

Mfg. Part No.	Carry Current (A)	Contacts	Coil Voltage (VDC)	Coil Resist. (Ω)	Stock No.	Price Each
DM85-2011-35-1012	16	SPDT-C/O	12	360	78M6768	2.15
DM85-2011-35-1024	16	SPDT-C/O	24	1440	78M6769	2.25

AC COIL VERSION

Mfg. Part No.	Carry Current (A)	Contacts	Coil Voltage (VAC)	Coil Resist. (Ω)	Stock No.	Price Each
DM85-2011-35-5012	16	SPDT-C/O	12	100	78M6770	2.15
DM85-2011-35-5024	16	SPDT-C/O	24	400	78M6771	3.56
DM85-2011-35-5120	16	SPDT-C/O	120	10200	78M6772	4.24

RELAY SOCKETS

Mfg. Part No.	Current (A)	For Use With	Mounting	Termination	Stock No.	Price Each
DZM80	12	DM84, DM85, DM87L, DM87P Series	DIN Rail/Panel	Screw	78M6796	3.43

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each
DZT80-0040	Clip, For use with: Mfg. part no. DZM80	78M6800	0.41

1360PC/1365PC SERIES RELAYS



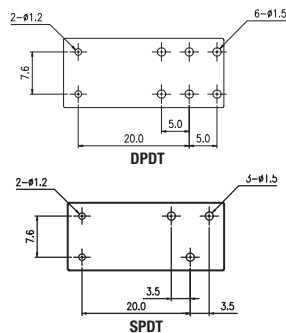
1360PC/1365PC series relays offer a unique compact design with terminals on 1" grid spacing for standard printed circuit boards. Snug-fitting cover affords excellent dust protection. Rated for 5A capacity. Order 1360PC series for AC applications, 1365PC series for DC applications.

Mfg. Part No.	Contacts	Coil Voltage	Coil Resist. (Ω ±10%)	Stock No.	Price Each
1360PC-2C-120A	DPDT	120VAC	3500	67F5641	79.17 70.98
1365PC-2C-12D	DPDT	12VDC	150	67F5643	53.87 45.91
1365PC-2C-24D	DPDT	24VDC	600	67F5644	53.87 45.91

SOCKETS

Mfg. Part No.	Terminals	Stock No.	Price Each
1360-1	PC and Solder Lug	67F5645	2.61 2.34

8-16A POWER PC BOARD RELAYS



- Lead-free contacts
- Contact rating: 8A DPDT, 12A SPDT, 16A SPDT and SPST
- Low height profile 13W x 16H x 29D mm.
- High operation life: 100K cycles at full resistive load, 10 million cycle, no load
- LED/diode plug-in modules available with DIN rail socket

R0 series relays are low-profile compact relays with standard 3.5mm and 5mm pin terminal separation. Plug-in LED and diode modules available; go online or call Newark.

8A DPDT CONTACTS

Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Stock No.	Price Each			
RQ2V-CN-D12	12VDC	360	33K1075	3.49	3.11	2.95	2.81
RQ2V-CN-D24	24VDC	1440	33K1076	3.49	3.11	2.95	2.81
RQ2V-CN-A24	24VAC	350	33K1074	6.05	5.40	5.12	4.87
RQ2V-CN-A115	120VAC	8100	33K1072	7.16	6.40	6.06	5.76
RQ2V-CN-A230	230VAC	32500	33K1073	10.84	9.68	9.18	8.72

CONTINUED

8-16A POWER PC BOARD RELAYS (CONT.)

12A SPDT CONTACTS

Mfg. Part No.	Coil Voltage	Coil Resist. (Ω)	Stock No.	Price Each			
RQ1V-CM-D12	12VDC	360	33K1070	2.86	2.55	2.42	2.30
RQ1V-CM-D24	24VDC	1440	33K1071	2.86	2.55	2.42	2.30
RQ1V-CM-A24	24VAC	350	33K1069	5.33	4.76	4.51	4.29
RQ1V-CM-A115	120VAC	8100	33K1067	5.81	5.19	4.92	4.68

16A SPDT CONTACTS

Mfg. Part No.	Coil Voltage	Coil Resist. (Ω)	Stock No.	1-24	25-49	50-99	100-249
RQ1V-CH-D12	12VDC	360	33K1065	3.54	3.16	2.99	2.85
RQ1V-CH-D24	24VDC	1440	33K1066	3.54	3.16	2.99	2.85
RQ1V-CH-A24	24VAC	350	33K1064	6.10	5.45	5.16	4.91
RQ1V-CH-A115	120VAC	8100	33K1062	7.55	6.74	6.39	6.08
RQ1V-CH-A230	230VAC	32500	33K1063	11.03	9.85	9.34	8.88

SOCKETS AND ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each		
SQ2V-07B	DPDT Socket	33K1096	7.26	6.48	6.15
SQ1V-07B	SPDT Socket	33K1095	5.52	4.93	4.67
SQ9Z-LD	6-24 VDC Plug-In LED & Diode Module	33K1098	2.91	2.60	2.46
SQ9Z-LR	110-230 VAC LED/RC Module	33K1099	3.49	3.11	2.95
SQ9Z-C	Replacement Retaining Clip	33K1097	0.73	0.65	0.62
SQ9Z-P	Replacement Marking Plate	33K1100	0.25	0.22	0.21

SUBMINIATURE 2A POWER RELAYS

Just Added



Features:

- Fully sealed for immersion cleaning
- Ultra small size
- High coil sensitivity 150-175mW
- Surface mount revision

Specifications:

- Contact rating: 0.5A at 125VAC/1A at 30VDC
- Contact resistance: 100mΩ
- Contacts: SPDT
- Contact material: Silver alloy (Au clad)
- Max. switching voltage: 125VAC/60VDC
- Max. switching current: 2A
- Mechanical life: 10million ops
- Electrical life: 100,000 ops
- Insulation resistance: 1000MΩ
- Dielectric strength: 1000VAC
- Operating temperature: -30°C to +70°C
- Unit weight: 2.2g



Mfg. Part No.	Contacts	Coil Voltage (VDC)	Coil Resist.	Termination	Stock No.	Price Each
EV1N-C-WL-5VDC	SPDT-C/O	5	167	Thru Hole	91K9688	2.13
EV1N-C-WL-12VDC	SPDT-C/O	12	960	Thru Hole	91K9687	2.13

MINIATURE 8/12A LOW PROFILE HIGH POWER RELAYS

Just Added



Features:

- Low height 15.7mm
- 1 and 2 pole configuration
- 5KV dielectric coil to contacts
- Creepage distance 10mm
- Sealed and flux-tight construction

Specifications:

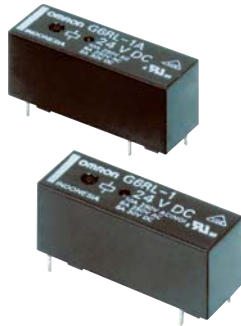
- Contact resistance: 50mΩ
- Contact rating: 8, 12 and 16A at 250VAC
- Switching voltage: 440VAC/125VDC
- Switching current: 12A/16A 8A
- Switching power: 3000VA/4000VA 2000VA
- Mechanical Life 10million ops
- Electrical Life: 100,000 ops



Mfg. Part No.	Current (A)	Contacts	Coil Voltage (VDC)	Coil Resist.	Termination	Stock No.	Price Each
SRRHN-2CN-SL-5VDC	8	DPDT-2C/O	5	62	Thru Hole	92K9038	3.07
SRRHN-2CN-SL-12VDC	8	DPDT-2C/O	12	360	Thru Hole	92K9036	3.40
SRRHN-2CN-SL-24VDC	8	DPDT-2C/O	24	1440	Thru Hole	92K9037	3.54
SRRHN-1CN-SL-5VDC	12	SPDT-C/O	5	62	Thru Hole	92K9035	3.07
SRRHN-1CN-SL-12VDC	12	SPDT-C/O	12	360	Thru Hole	92K9033	3.34
SRRHN-1CN-SL-24VDC	12	SPDT-C/O	24	1440	Thru Hole	92K9034	3.07

POWER PCB RELAYS

10A NOMINAL POWER LOW PROFILE PCB RELAYS



Just Added



Specifications:

- Contact rating: 10 A at 250VAC; 5A at 30VDC
- Carry current: 10A
- Switching voltage: 400VAC, 300VDC
- Switching current: NO: 10 A, NC: 8 A
- Contact resistance: 100mΩ
- Operate time: 10ms (SR Models: 15ms)
- Release time: 5ms
- Insulation resistance: 1,000MΩ
- Dielectric strength: 5,000VAC
- Operating temperature: -40°C to 85°C
- Weight Approx. 7.8 g

Features:

- Low profile: 12.3mm
- Max. switching capacity: 2,500 VA (NO)
- IEC 60947-5-1, AC-15, DC13
- Clearance and creepage distance: 10 mm
- Models with high shock resistance (250 m/s²) are available
- Fully sealed or flux protection

FLUX PROTECTION

Mfg. Part No.	Contacts	No. of Poles	No. of Poles	No. of Poles	Stock No.	Price Each		
						1-24	25-49	50+
● G6RL-1A-ASI-DC12	SPST-NO	1	12	654	59P3441	2.99		
● G6RL-1A-ASI-DC24	SPST-NO	1	24	2618	59P3442	3.08		
● G6RL-1-ASI-DC12	SPDT	1	12	654	59P3438	5.57		
● G6RL-1-SR-ASI-DC24*	SPDT	1	24	1912	59P3440	3.51		
● G6RL-1-ASI-DC24	SPDT	1	24	2618	59P3439	3.19		

FULLY SEALED

● G6RL-1A4-ASI-DC5	SPST-NO	1	5	113	59P3445	5.30		
● G6RL-1A4-ASI-DC12	SPST-NO	1	12	654	59P3443	5.29		
● G6RL-1A4-ASI-DC24	SPST-NO	1	24	2618	59P3444	5.48		
● G6RL-14-ASI-DC5	SPDT	1	5	113	59P3448	3.10		
● G6RL-14-ASI-DC12	SPDT	1	12	654	59P3446	5.57		
● G6RL-14-ASI-DC24	SPDT	1	24	2618	59P3447	5.77		

* Shock resistance (142252)

10A POWER PC BOARD RELAYS



Subminiature "sugar cube" relays are rated 10A and are UL Class B insulation certified. Withstand impulses of up to 4,500V. Maximum switching voltage: 250VAC, 125VDC. Operating temperature: -25°C to +85°C. Dimensions in mm (inches): 19.05(75)H x 22.5(89)L x 16.51(65)W. Ideal for security equipment, home electrical appliances, audio equipment, and remote control switched power. UL recognized, CSA certified.



FLUX-PROTECTION

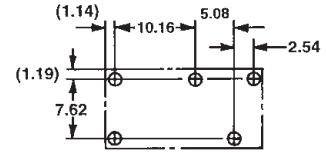
Mfg. Part No.	Contacts	Coil Voltage (VDC)	Coil Resist. (Ω)	Stock No.	Price Each		
					1-24	25-49	50-99
● G5LE-1A-DC5	SPST-NO	5	63	83F5378	0.73	0.69	0.67
● G5LE-1-DC5	SPDT	5	63	83F5381	1.53	1.39	1.23
● G5LE-1-DC12	SPDT	12	360	35K4530	1.70	1.53	1.36
● G5LE-1-DC24	SPDT	24	1440	83F5380	1.70	1.53	1.36

PLASTIC-SEALED

● G5LE-1A4-DC5	SPST-NO	5	63	83F5375	0.67	0.64	0.62
● G5LE-1A4-DC12	SPST-NO	12	360	36K7449	1.97	1.78	1.58
● G5LE-1A4-DC24	SPST-NO	24	1440	35K3189	1.47	1.33	1.18
● G5LE-14-DC5	SPDT	5	63	36K7450	1.57	1.42	1.26
● G5LE-14 DC6	SPDT	6	63	89C5991	1.65	1.55	1.48
● G5LE-14 DC9	SPDT	9	200	89C5992	2.11	1.98	1.89
● G5LE-14-DC12	SPDT	12	360	36K1937	1.88	1.69	1.50
● G5LE-14-AP3 DC12	SPDT	12	360	70C4830	0.91	0.86	0.84
● G5LE-14-DC24	SPDT	24	1440	83F5371	1.88	1.69	1.50
● G5LE-14-AP3 DC24	SPDT	24	1440	89C6006	0.91	0.86	0.84

(33970)

5A PC BOARD RELAYS



- Environmentally friendly, Pb-free/cadmium-free
- SPDT contacts with high insulation between coil and contacts
- Up to 5A switching on the N.O. contacts
- Ensures an impulse withstand voltage of 8,000V between the coil and contacts

Fully sealed construction. Ideal for fan control of air conditioners and heating control of small appliances.

Mfg. Part No.	Contacts	Coil Input Voltage (VDC)	Coil Resist. (Ω)	Coil Current (mA)	Stock No.	Price Each		
						1-24	25-49	50+
● G5SB-1A4 DC5	SPST-NO	5	63	80	04M9818	1.63	1.47	1.32
● G5SB-14-DC5	SPDT	5	63	80	09J1648	1.70	1.53	1.36
● G5SB-14-DC9	SPDT	9	202	44.4	09J1649	1.70	1.53	1.36
● G5SB-1A4 DC12	SPST-NO	12	360	33.3	04M9816	1.63	1.47	1.32
● G5SB-14-DC12	SPDT	12	360	33.3	09J1646	1.70	1.53	1.36
● G5SB-14-DC24	SPDT	24	1440	16.7	76K1656	1.82	1.64	1.46

(80266)

5A POWER PC BOARD RELAYS



- Rated load: 5A at 250VAC, 30VDC
- Max. operating voltage: 250VAC, 30VDC
- Max. operating current: 5A
- Max. switching capacity: 1250VA, 150W for resistive load, 500VA, 60W for inductive load
- Contact resistance: 100mΩ Max.
- Bounce time: 1.20ms
- Ambient operating temperature: -25°C to +70°C

G6D series features include: reduced board space ideal for high density mounting. Dimensions in mm(inches): 6.5(260)W x 17.5(690)L x 12.5(490)H. Rated for D150 pilot duty by UL, CSA, and optional mounting socket simplifies relay installation and servicing of finished equipment.

Mfg. Part No.	Contacts	Coil Voltage (VDC)	Coil Current (mA)	Coil Resistance (Ω)	Stock No.	Price Each		
						1-24	25-49	50+
● G6D-1A-ASI-DC5	SPST-NO	5	40	125	37K5480	5.24	4.72	
● G6D-1A-ASI-DC12	SPST-NO	12	16.7	720	17M6689	7.36	6.09	
● G6D-1A-ASI-DC24	SPST-NO	24	8.3	2880	69K0924	5.64	5.08	

(75463)

5A-8A PC BOARD RELAYS



- 5-24V
- Low Power Consumption: 200mW
- Sealed Construction
- High-Capacity and Single- and Dual-Coil Latching Types Available
- Meets FCC Part 68 Requirements
- Reduced Magnetic Interference and Contact Bounce with Moving Magnet Armature

High-capacity versions have LED indicator and surge suppression diode. Dimensions in inches (mm): .39 (9.90)H x .79 (20.06)W x .39 (9.91)L Mfg. part no. P6B-26P back connecting socket for double-pole non-latching versions also available. Single-coil latching series G6BU-1114P-US also available; go online or call.

5A, NON-LATCHING

Mfg. Part No.	Coil Volt. (VDC)	Contacts	Coil Resist. (Ω)	Coil Current (mA)	Stock No.	Price Each	
						1-24	25-49
● G6B-1114P-US-DC5	5	SPST-NO	125	40	36K7459	4.93	
● G6B-2114P-US-DC5	5	SPST-NO+SPST-NC	125	60	67K9357	6.02	
● G6B-2114P-1-US-DC5	5	SPST-NO+SPST-NC	125	40	89C6257	5.62	
● G6B-2214P-US-DC5	5	DPST-NO	125	40	67K9363	6.02	
● G6B-2214P-1-US-DC5	5	SPST-NO+SPST-NC	125	40	89C6265	5.62	
● G6B-1114P-US-DC6	6	SPST-NO	180	33.3	89C6227	4.93	
● G6B-2114P-US-DC6	6	SPST-NO+SPST-NC	180	33.3	67K9358	6.02	
● G6B-1114P-US-DC12	12	SPST-NO	720	16.7	36K3238	4.93	
● G6B-1114P-1-US-DC12	12	SPST-NO	720	16.7	03C3388	4.52	
● G6B-2114P-US-DC12	12	SPST-NO+SPST-NC	720	16.7	99F9312	6.02	
● G6B-2114P-1-US-DC12	12	SPST-NO+SPST-NC	720	16.7	67K9359	5.62	
● G6B-2214P-US-DC12	12	DPST-NO	720	16.7	67K9361	6.02	

➔ CONTINUED ➔

POWER PCB RELAYS

5A-8A PC BOARD RELAYS (CONT.)

Mfg. Part No.	Coil Volt. (VDC)	Contacts	Coil Resist. (Ω)	Coil Current (mA)	Stock No.	Price Each
● G6B-1114P-US-DC24	24	SPST-NO	2880	8.3	35K4532	5.06
● G6B-1114P-FD-US-DC24	24	SPST-NO	2880	8.3	67K9353	6.18
● G6B-2114P-US-DC24	24	SPST-NO+SPST-NC	2880	8.3	52F3718	6.30
● G6B-2114P-1-US-DC24	24	SPST-NO+SPST-NC	2880	8.3	67K9360	5.55
● G6B-2214P-US-DC24	24	DPST-NO	2880	8.3	67K9362	6.30

8A, NON-LATCHING, HIGH-CAPACITY

● G6B-1174P-US-DC5	5	SPST-NO	125	40	67K9355	5.89
● G6B-1174P-US-DC12	12	SPST-NO	720	16.7	35K3192	5.89
● G6B-1174P-US-DC24	24	SPST-NO	2880	8.3	36K1945	6.10
● G6B-1174P-FD-US DC24	24	SPST-NO	2880	8.3	67K9354	7.53

5A, DUAL-COIL LATCHING

● G6BK-1114P-US-DC3	3	SPST-NO	...	...	89C6275	5.69
● G6BK-1114P-US-DC5	5	SPST-NO	89.2	56	36K1946	6.20
● G6BK-1114P-1-US-DC12	12	SPST-NO	720	16.7	89C6279	5.90
● G6BK-1114P-US-DC12	12	SPST-NO	515	23.3	94B0859	6.43

BACK CONNECTING SOCKETS

Mfg. Part No.	For Use With	Stock No.	Price Each		
● P6B-04P	G6B Series Single-Pole, Non-Latching and Single-Coil Latching Relays	35K4863	1.78	1.61	1.43
● P6C-06P	G6B Series Dual-Coil Latching Relays	17M7544	2.31	2.17	2.07

(3735)

8A-10A POWER PC BOARD RELAYS



- Moving loop armature reduces size, magnetic interference and bounce time
- Semi-sealed and sealed versions available
- Low power consumption: only 200mW
- Non-latching



Rated current and coil resistance are measured at a coil temperature of +23°C with tolerance of ±10%. Dimensions shown are in inches (mm): .790(20.06)L x .590(14.98)W x .390(9.9)H.

SEALED

Mfg. Part No.	Contacts	Carry Current (A)	Coil Voltage (VDC)	Coil Resist. (Ω)	Stock No.	Price Each	
● G6C-2114P-US-DC5	SPST-NO + SPST-NC	8	5	125	36K7462	6.82	6.15
● G6C-2114P-US-DC12	SPST-NO + SPST-NC	8	12	720	36K1948	6.82	6.15
● G6C-2114P-US-DC24	SPST-NO + SPST-NC	8	24	2880	35K4533	7.04	6.34
● G6C-1114P-US-DC5	SPST-NO	10	5	125	36K7461	5.92	5.33
● G6C-1114P-US-DC12	SPST-NO	10	12	720	36K3239	5.92	5.33
● G6C-1114P-US-DC24	SPST-NO	10	24	2880	36K1947	6.11	5.50

SEMI-SEALED

● G6C-2117P-US-DC5	SPST-NO + SPST-NC	8	5	125	35K4534	5.07	4.73
● G6C-2117P-US-DC8	SPST-NO + SPST-NC	8	8	...	34K3624	5.92	5.41
● G6C-2117P-US-DC12	SPST-NO + SPST-NC	8	12	720	23C9970	5.07	4.73
● G6C-1117P-US-DC12	SPST-NO	10	12	720	09J1689	4.39	4.09

(3758)

15A POWER PC BOARD RELAYS



- Max. operating voltage: 250VAC, 125VDC
- Max. operating current: 15A
- Max. switching capacity: 3,750VA
- Rated load: 15A at 250VAC, 24VDC
- Contact resistance: 30 mΩ (insulation resistance: 100 MΩ min. (at 500VDC))
- Operating temperature: -25°C to +55°C
- Bounce time: 0.40ms



Unsealed

Sealed

Features include: Impulse withstand voltage of 10,000V between input and output, creepage distance of 10mm minimum between coil and contact meets VDE C/250. Outside dimensions in mm (inches): 30.48(1.20)L x 19.66(.770)W x 30.48(1.20)H. Dielectric strength of 4,000VAC minimum conforms to UL, CSA and IEC Class II, International 2.5mm terminal pitch, and low power consumption.

▶ CONTINUED ▶

15A POWER PC BOARD RELAYS (CONT.)

UNSEALED

Mfg. Part No.	Contacts	Coil Voltage (VDC)	Coil Resist. (Ω)	Stock No.	Price Each		
● G4W-1112P-US-TV8-HP-DC12	SPST-NO	12	180	23C6992	6.13	5.76	5.51
● G4W-2212P-US-TV5-HP-DC24	DPST-NO	24	720	09J1573	6.93	6.24	5.55

SEALED

● G4W-1114P-US-TV8-HP-DC12	SPST-NO	12	180	90B2990	5.99	5.63	5.39
● G4W-1114P-US-TV8-HP-DC24	SPST-NO	24	720	52F3936	7.14	6.71	6.42
● G4W-2214P-US-HP-DC12	DPST-NO	12	180	67K9349	7.04	6.59	6.29
● G4W-2214P-US-HP-DC24	DPST-NO	24	720	36K7448	7.10	6.66	6.35

(75461)

8A POWER RELAYS



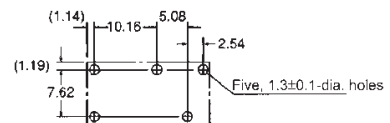
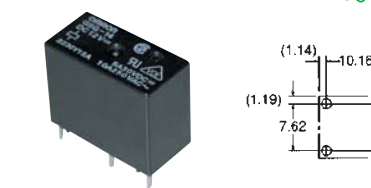
- Max. switching voltage: 250VAC, 125VDC
- Max. switching capacity: 2000VA, 150W
- Contact resistance: 100mΩ Max.
- Insulation resistance: 1000mΩ Min.
- Ambient operating temperature: -40°C to +85°C
- Dimensions: 0.39W x 1.12L x 0.59" H



Mfg. Part No.	Contacts	Coil Voltage (VDC)	Coil Resist. (Ω)	Stock No.	Price Each			
● G6RN-1 DC5	SPDT	5	114	96B9768	2.28	2.14	2.05	1.96
● G6RN-1 DC12	SPDT	12	655	94B4358	2.75	2.58	2.46	2.36
● G6RN-1 DC24	SPDT	24	2620	36K3244	2.92	2.74	2.62	2.50
● G6RN-1A DC5	SPST-NO	5	114	89C3082	1.98	1.82	1.74	1.66
● G6RN-1A-DC12	SPST-NO	12	655	23C8326	2.73	2.46	2.19	1.97
● G6RN-1A-DC24	SPST-NO	24	2620	36K1953	2.84	2.66	2.54	2.43

(75464)

10A POWER PC BOARD RELAYS



- Class F coil-insulation system
- Environmentally friendly, silver alloy cadmium-free contacts
- Max. operating voltage: 277VAC/30VDC
- Rated up to 10A (SPST-NO)
- UL recognized
- CSA certified
- VDE approved
- Size: 15.5mm(H) x 20.0mm(L) x 10.0mm(W)

PLASTIC SEAL

Mfg. Part No.	Carry Current (A)	Contacts	Coil Voltage (VDC)	Coil Resist. (Ω)	Stock No.	Price Each	
● G5Q-1A4-DC12	3	SPST-NO	12	720	17C6930	2.48	2.24
● G5Q-1A4-DC24	3	SPST-NO	24	2880	36K1939	2.48	2.24
● G5Q-14-DC12	3	SPDT	12	360	36K1940	2.59	2.34
● G5Q-14-DC24	3	SPDT	24	1440	36K3236	2.59	2.34
● G5Q-1A4 DC5	10	SPST-NO	5	125	89C6042	2.58	2.42
● G5Q-14 DC5	10	SPDT	5	63	89C6045	2.39	2.18

FLUXTIGHT

● G5Q-1A-DC24	3	SPST-NO	24	2880	36K1938	2.32	2.09
● G5Q-1-DC12	3	SPDT	12	360	36K3235	2.43	2.19
● G5Q-1-DC24	3	SPDT	24	1440	35K3190	2.43	2.19
● G5Q-1A-DC12	10	SPST-NO	12	360	17C6928	2.32	2.09

(62177)

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(148857)

G2R SERIES POWER RELAYS

Just Added



G2R series are slim-styled power PCB relays. Creepage distance of 0.31" min. between coil and contact. Relays with E in mfg. part no. are high-capacity 16A; all others are general purpose. Relays with N in mfg. part no. include LED indicator; ND in mfg. part no. indicates LED indicator and surge suppression diode. Outside dimensions in inches (mm): 1.14(29)L x .510(13)W x 1.0(25.5)H. UL recognized, CSA certified. Also available: class B insulation, latching types and flange mount version with quick connects: order **mfg. part no. G2R-1-T (voltage). Type P2R-P** connecting socket mounting plate, **Mfg. part no. P6C-08P** back-connecting PCB terminal, socket also available; *go online or call.*



Series	Lead Width - Inches (mm)			
	1	2	3	4
G2R-14	.012 (.30)	.02 (.50)	.006 (.16)	.02 (.50)
G2R-1A4	.012 (.30)	.02 (.50)	.006 (.16)	.02 (.50)
G2R-1-E	.012 (.30)	.02 (.50)	.006 (.16)	.012 (.30)
G2R-1A-E	.012 (.30)	.02 (.50)	.006 (.16)	.012 (.30)
G2R-2	.012 (.30)	.02 (.50)	.006 (.16)	.02 (.50)
G2R-24	.012 (.30)	.02 (.50)	.006 (.16)	.02 (.50)

AC COIL—SEMI-SEALED PCB

Mfg. Part No.	Carry Current (A)	Contacts	Coil Voltage (VAC)	Coil Resis. (Ω)	Stock No.	Price Each
						1-24
● G2R-2-AC24	5	DPDT	24	260	89C5303	5.09
● G2R-2-AC120	5	DPDT	120	6500	51B745	8.13
● G2R-1-E-AC120	16	SPDT	120	6500	17C6474	6.10

AC COIL—SEALED PCB

● G2R-24-AC24	5	DPDT	24	260	36K3221	7.73
● G2R-24-AC120	5	DPDT	120	6500	52F3689	8.43
● G2R-1A4-AC120	10	SPST-NO	120	6500	36K7444	7.25
● G2R-14-AC24	10	SPDT	24	260	52F3682	6.77
● G2R-14-AC120	10	SPDT	120	6500	36K1931	7.44
● G2R-14-AC240	10	SPDT	240	30000	52F3681	9.66

AC COIL—PLUG-IN

● G2R-1-S-AC120	10	SPDT	120	6500	88M3293	7.19
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AC COIL—QUICK CONNECT

● G2R-1A-T-AC24	10	SPST-NO	24	260	89C5220	6.01
● G2R-1A-TAC-120-	10	SPST-NO	120	6500	22C5448	5.89

DC COIL—SEMI-SEALED PCB

Mfg. Part No.	Carry Current (A)	Contacts	Coil Voltage (VDC)	Coil Resis. (Ω)	Stock No.	Price Each
						1-24
● G2R-2-DC12	5	DPDT	12	275	83F5358	2.79
● G2R-2-DC24	5	DPDT	24	1100	36K3220	2.78
● G2R-2A-DC24	5	DPST-NC	24	1100	89C5359	2.80
● G2R-1-DC12	10	SPDT	12	275	90B9506	2.38
● G2R-1-DC24	10	SPDT	24	1100	34K3620	2.78
● G2R-1A-E-DC12	16	SPST-NO	12	275	36K7443	3.71
● G2R-1A-E-DC24	16	SPST-NO	24	1100	36K3219	3.71
● G2R-1-E-DC5	16	SPDT	5	47	36K7442	4.10
● G2R-1-E-DC12	16	SPDT	12	275	36K1929	4.10
● G2R-1-E-DC24	16	SPDT	24	1100	52F3693	4.10

DC COIL—SEALED PCB

● G2R-2A4-DC12	5	DPST-NC	12	275	89C5380	3.41
● G2R-24-DC5	5	DPDT	5	47	37K6097	4.62
● G2R-24-DC12	5	DPDT	12	275	36K3222	4.62
● G2R-24-DC24	5	DPDT	24	1100	36K3223	4.62
● G2R-1A4-DC12	10	SPST-NO	12	275	35K3188	3.93
● G2R-1A4-DC24	10	SPST-NO	24	1100	36K1930	3.93
● G2R-14-DC5	10	SPDT	5	47	24C6438	4.01
● G2R-14-DC12	10	SPDT	12	275	36K1932	4.03
● G2R-14-DC24	10	SPDT	24	1100	36K1933	3.99

DC COIL—QUICK CONNECT

● G2R-1A-T-DC12	10	SPST-NO	12	275	89C5223	3.99
● G2R-1A-T-DC24	10	SPST-NO	24	1100	25C7120	3.98

DC COIL—PLUG-IN w/LED INDICATOR AND DIODE w/ TEST BUTTON

● G2R-2-SNDI DC24(S)	5	DPDT	24	1113	08J0994	12.87
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DC COIL—DOUBLE WINDING LATCHING

● G2RK-2-DC24	5	DPDT	24	1100	93B2797	8.48
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ACCESSORIES FOR G2R SERIES

Mfg. Part No.	Description	Stock No.	Price Each
			1-24
● P2R-05P	Back-Connecting, PCB Terminal, Socket	35K3222	2.43
● P2R-08P	Back-Connecting, PCB Terminal, Socket	35K4861	2.43
● PFP-100N	Mounting Track for P2CF Sockets, DIN Rail, 3.28' (1m) Length	17M7511	5.92

▶ CONTINUED ▶

G2R SERIES POWER RELAYS (CONT.)

Mfg. Part No.	Description	Stock No.	Price Each
● PFP-50N	Mounting Track for P2CF Sockets, DIN Rail, 1.64' (50cm) Length	93B2043	4.72
● PFP-M	Mounting Track for P2CF Sockets, End Plate	36K3451	0.75

† "E" models are of finger-safe construction. Round terminals cannot be used. Use Y-shaped terminals. (3733)

PLUG-IN POWER RELAYS



- Environmental friendly (Cd, Pb free)
- Lockable test button models now available
- Built-in mechanical operation indicator
- Provided with nameplate
- AC type is equipped with a coil-disconnection self-diagnostic function (LED type)
- High switching power (1-pole: 10A)
- LED indicators, test button, and diode available
- Wide range of sockets also available; *go online or call*



AC COIL, SPST, 10A

Mfg. Part No.	Coil Voltage (VAC)	Coil Resis. (Ω)	Features	Stock No.	Price Each	
					1-49	50-99
● G2R-1-S-AC24(S)	24	253	...	08J0936	5.92	5.57
● G2R-1-SN-AC24(S)	24	253	LED Indicator	08J0953	9.60	8.65
● G2R-1-SN-AC110(S)	110	5566	LED Indicator	08J0950	9.48	8.89
● G2R-1-S-AC120(S)	120	7286	...	08J0934	6.37	5.97
● G2R-1-SN-AC-120(S)	120	7286	LED Indicator	08J0949	11.03	9.28
● G2R-1-S-AC240(S)	240	30360	...	08J0937	13.90	12.51
● G2R-1-SN-AC240(S)	240	30360	LED Indicator	08J0954	16.89	14.20

AC COIL, DPDT, 5A

● G2R-2-S-AC12(S)	12	253	...	08J0970	7.60	6.39
● G2R-2-S-AC24(S)	24	253	...	08J0973	6.59	6.18
● G2R-2-SN AC24(S)	24	253	Indicator Light	08J0985	11.11	9.34
● G2R-2-S-AC110(S)	110	5566	...	08J0969	7.78	6.54
● G2R-2-SN-AC110(S)	110	5566	Indicator Light	08J0989	11.92	10.03
● G2R-2-S-AC120(S)	120	7286	...	08J0971	6.04	5.67
● G2R-2-SN AC120(S)	120	7286	Indicator Light	08J0984	11.92	10.03
● G2R-2-S-AC240(S)	240	30360	...	08J0974	14.86	13.38
● G2R-2-SN AC240(S)	240	30360	Indicator Light	08J0986	18.13	15.25

DC COIL, SPDT, 10A

Mfg. Part No.	Coil Voltage (VDC)	Coil Res. (Ω)	Features	Stock No.	Price Each	
					1-24	25-49
● G2R-1-S-DC6(S)	6	69	...	08J0943	5.75	5.18
● G2R-1-SN-DC6(S)	6	69	LED Indicator	08J0961	9.39	8.45
● G2R-1-SND-DC6(S)	6	69	Indicator Light&Diode	08J0965	10.74	9.03
● G2R-1-S-DC12(S)	12	278	...	08J0939	4.45	4.17
● G2R-1-SD-DC12(S)	12	278	Diode	08J0946	7.11	5.98
● G2R-1-SN-DC12(S)	12	278	LED Indicator	08J0957	9.39	8.45
● G2R-1-SND-DC12(S)	12	278	Indicator Light&Diode	08J0962	10.14	9.50
● G2R-1-S-DC24(S)	24	1113	...	08J0940	3.79	3.56
● G2R-1-SD DC24(S)	24	1113	Diode	08J0944	7.11	5.98
● G2R-1-SN-DC24(S)	24	1113	LED Indicator	08J0958	7.26	6.81
● G2R-1-SNDI DC24(S)	24	1113	Indicator Light&Diode	08J0966	11.32	9.52
● G2R-1-SNI DC24(S)	24	1113	Indicator Light&Test Button	08J0967	8.27	6.95

DC COIL, DPDT, 5A

● G2R-2-S-DC6(S)	6	69	...	08J0980	6.70	6.04
● G2R-2-SND-DC6(S)	6	69	Indicator Light&Diode	08J0993	12.16	10.22
● G2R-2-S-DC12(S)	12	278	...	08J0976	4.34	4.07
● G2R-2-SND-DC12(S)	12	278	Indicator Light&Diode	08J0990	11.71	9.84
● G2R-2-S-DC24(S)	24	1113	...	08J0977	5.10	4.76
● G2R-2-SD-DC24(S)	24	1113	Diode	08J0981	8.07	6.79
● G2R-2-SND-DC24(S)	24	1113	Indicator Light&Diode	08J0991	10.15	9.53
● G2R-2-SNDI DC24(S)	24	1113	Indicator Light&Diode	08J0994	12.87	10.82
● G2R-2-SNI DC24(S)	24	1113	Indicator Light&Test Button	08J0995	8.09	7.58
● G2R-2-SN DC48(S)	48	4220	Indicator Light	08J0987	10.66	8.97

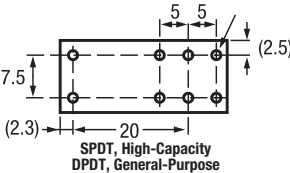
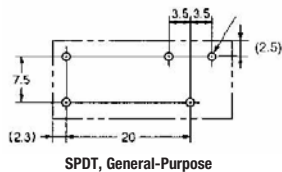
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POWER PCB RELAYS

8-16A LOW-PROFILE RELAYS



Thru-Hole



- Low-profile 15.7mm (H) x 28.8mm (L) x 12.2mm (W)
- Low power consumption: (400mW, DC48-430mW)
- Over 8mm creepage and clearance coil to contact spacing for very high isolation
- Tracking resistance (CTI) rated at 250
- Vented or sealed (with ventable nib)
- UL recognized, CSA certified, VDE approved

Units with "CF" in mfg. part no. class F coil insulation; others have class B.

SEALED

Mfg. Part No.	Carry Current (A)	Contacts	Coil Voltage (VDC)	Coil Resist. (Ω)	Stock No.	Price Each	
						1-49	50-99
● G2RL-14-CF-DC12	8	SPDT	12	360	33K9486	3.79	3.55
● G2RL-24-CF-DC12	8	DPDT	12	360	36K3228	3.50	3.28
● G2RL-24-CF-DC24	8	DPDT	24	1440	17C6913	2.98	2.79
● G2RL-24 DC5	8	DPDT	5	62.5	34K3622	2.13	1.99
● G2RL-24-CF DC5	8	DPDT	5	62.5	89C5519	2.23	2.09
● G2RL-24 DC12	8	DPDT	12	360	36K7446	2.13	1.99
● G2RL-24DC24	8	DPDT	24	1440	36K1935	2.84	2.66
● G2RL-24 DC48	8	DPDT	48	5358	89C5516	2.34	2.18
● G2RL-14A-DC12	12	SPST-NO	12	360	25C0886	1.61	1.51
● G2RL-14 DC5	12	SPDT	5	62.5	34K0484	1.60	1.50
● G2RL-14-CF DC5	12	SPDT	5	62.5	33K3864	1.79	3.56
● G2RL-14 DC12	12	SPDT	12	360	34K3621	1.68	1.57
● G2RL-14-DC24	12	SPDT	24	1440	36K3226	3.40	3.06
● G2RL-14-CF-DC24	12	SPDT	24	1440	36K3225	1.67	1.56
● G2RL-1A4-E-DC12*	16	SPST-NO	12	360	24C0595	3.18	2.97
● G2RL-14-E-CF-DC12*	16	SPDT	12	360	36K3227	1.99	1.86
● G2RL-14-E-CF-DC24*	16	SPDT	24	1440	43K5272	4.51	4.23

FLUX PROTECTION

● G2RL-2-CF-DC12	8	DPDT	12	360	17C6910	2.96	2.78
● G2RL-2-CF-DC24	8	DPDT	24	1440	36K1934	3.79	3.56
● G2RL-1A DC5	12	SPST-NO	5	62.5	89C5455	2.80	2.63
● G2RL-1A DC12	12	SPST-NO	12	360	36K7445	1.79	1.68
● G2RL-1A DC24	12	SPST-NO	24	1440	89C5453	2.80	2.63
● G2RL-1-CF-DC12	12	SPDT	12	360	36K3224	2.83	2.66
● G2RL-1-CF-DC24	12	SPDT	24	1440	17C6903	3.27	3.06
● G2RL-1-E DC12*	16	SPDT	12	360	89C5444	1.60	1.50
● G2RL-1-E-CF-DC12*	16	SPDT	12	360	17C6904	1.70	1.58
● G2RL-1-E-CF-DC24*	16	SPDT	24	1440	17C6905	3.00	2.81

FLUX PROTECTION w/QUICK CONNECT TERMINALS - 5mm PITCH

● G2RL-1ATP5-E-DC12*	16	SPST-NO	12	360	20M4116	4.98	4.48
● G2RL-1ATP5-E-DC24*	16	SPST-NO	24	1440	20M4117	4.98	4.48

FLUX PROTECTION w/QUICK CONNECT TERMINALS - 7.5mm PITCH

● G2RL-1ATP7-E-DC12*	16	SPST-NO	12	360	20M4118	4.90	4.41
● G2RL-1ATP7-E-DC24*	16	SPST-NO	24	1440	20M4119	4.90	4.41

* High capacity (62179)

G7SA SERIES FORCE GUIDED RELAYS



OMRON SCIENTIFIC TECHNOLOGIES, INC.

- 4 pole or 6 pole models
- Track-mounting or Back-mounting Sockets
- Conforms to: EN50205, EN61810-1

- 6A resistive load
- Temperature -40° to 85°C

The G7SA relays with force guided contacts are compact, slim and conform to EN standards. DIN mountable sockets make these ideal for control panels with limited space. Ideal for use with Safety Interlock circuits.

Mfg. Part No.	Contacts	No. of Poles	Voltage Rating (VDC)	Stock No.	Price Each
● G7SA-3A1B DC24	3PST-NO/SPST-NC	4	24	93K7580	37.50
● G7SA-2A2B DC24	DPST-NO/DPST-NC	4	24	93K7579	37.50
● G7SA-5A1B DC24	5PST-NO/SPST-NC	6	24	36K3249	50.00
● G7SA-4A2B DC24	4PST-NO/DPST-NC	6	24	50M2047	35.72
● G7SA-3A3B DC24	3PST-NO/3PST-NC	6	24	27C4257	41.32

CONTINUED

G7SA SERIES FORCE GUIDED RELAYS (CONT.)

SOCKETS

Mfg. Part No.	Description	Stock No.	Price Each
● P7SA-10F	4 pole socket, track mounting, no LED	18M7557	38.94
● P7SA-14F	6 pole socket, track mounting, no LED	27C4263	40.44
● P7SA-10F-ND DC24	4 pole socket, back mounting, LED	40C2726	24.56
● P7SA-14F-ND DC24	4 pole socket, track mounting, LED	25C4297	33.48

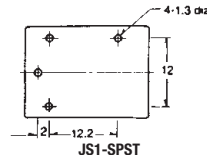
10A ULTRA-MINI PC BOARD POWER RELAYS



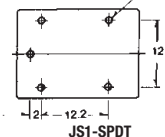
Panasonic Electric Works Corporation of America



JS1



JS1-SPST



JS1-SPST



ALS

Ultra-miniature size with universal terminal footprint. High silver alloy contact capacity: 10A. Nominal operating power: 360mW. Contacts 70% nominal voltage, sealed. Maximum switching power: 1,250VA. Ambient temperature: -40°C to +70°C. Dimensions: JS1 series, 22(0.866")L x 16(0.630")W x 16(0.630")H. ALS series, 19.5(0.768")L x 15.5(0.610")W x 15.2(0.598")H. UL recognized, CSA certified, TUV approved.

SPST

Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Stock No.	Price Each			
				1-24	25-49	50-99	100-499
● JS1A-12V-F	12	400	27K6710	1.34	1.23	1.10	0.94
● ALS4B12TW	12	400	45M7090	1.55	1.42	1.27	1.08
● JS1A-24V-F	24	1600	27K6711	1.37	1.25	1.12	0.96
● ALS4B24TW	24	1600	45M7091	1.60	1.47	1.31	1.12

SPDT

● JS1-5V-F	5	69.4	30K6985	1.39	1.28	1.14	0.97
● ALS2B05TW	5	69.4	45M7085	1.60	1.47	1.31	1.12
● JS1-12V-F	12	400	27K6708	1.39	1.28	1.14	0.97
● ALS2B12TW	12	400	45M7086	1.73	1.59	1.42	1.21
● JS1-24V-F	24	1600	27K6709	1.52	1.40	1.25	1.07
● ALS2B24TW	24	1600	45M7088	1.65	1.52	1.35	1.16

(3676)

10A MINIATURE POWER RELAYS



Panasonic Electric Works Corporation of America

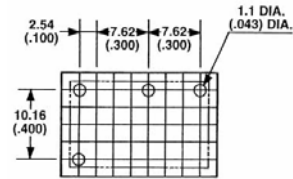


Fig. 1

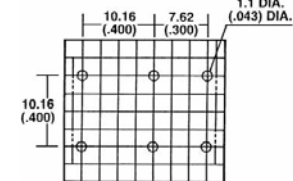


Fig. 2

DK series relays have large capacity in a small size: 10A @ 250VAC (1A). High sensitivity: 200mW nominal operating power. High breakdown voltage: 4,000Vrms between contacts and coil, 1,000Vrms between open contacts. Contact material: gold-flash over silver alloy. Meets FCC Part 68. Sealed construction and latching types available; go online or call. UL recognized, CSA certified.

SPST-NO SINGLE-SIDE STABLE

Mfg. Part No.	Coil Voltage (VDC)	Coil Res. (Ω)	Fig.	Stock No.	Price Each			
					1-24	25-49	50-99	100-499
● DK1A-5V-F	5	125	1	27K6707	8.17	7.52	6.66	5.68
● DK1A-12V-F	12	720	1	27K6704	8.17	7.52	6.66	5.68
● DK1A-12V-F	12	720	1	27K6704	8.17	7.52	6.66	5.68
● DK1A-24V-F	24	2880	1	27K6706	8.17	7.52	6.66	5.68

CONTINUED

10A MINIATURE POWER RELAYS (CONT.)

SPST-NO, SPST-NC, SINGLE-SIDE STABLE

Mfg. Part No.	Coil Voltage (VDC)	Coil Res. (Ω)	Fig.	Stock No.	Price Each			
					1-24	25-49	50-99	100-499
● DK1A1B-5V	5	125	2	91B5506	12.01	11.04	9.79	8.34
● DK1A1B-12V	12	720	2	52F9204	12.01	11.04	9.79	8.34
● DK1A1B-24V	24	2880	2	92B0031	12.01	11.04	9.79	8.34

DPST-NO, SINGLE-SIDE STABLE

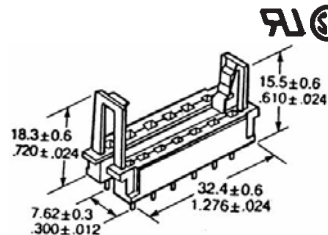
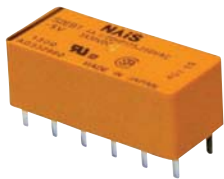
● DK2A-5V	5	125	2	97B3301	11.96	11.00	9.75	8.31
● DK2A-12V	12	720	2	64K3100	12.01	11.04	9.79	8.34
● DK2A-24V	24	2880	2	98B5189	11.01	10.13	8.98	7.65

(60979)

4A POLARIZED HIGH-DENSITY, HIGH-SENSITIVITY RELAYS



Panasonic Electric Works Corporation of America



- Amber sealed DIP package
- High shock / vibration resistance: 50G / 18G
- Switching range: 100µA at 100mVDC to 4A at 250VAC
- Contact rating: 4A at 250VAC; 3A at 30VDC
- Low thermal electromotive force: 3µV

Dimensions (H x W x L): 0.409" (10.4) x 0.472" (12.0) x 1.102" (28.1). Row spacing: 0.300" (7.62). Order mfg. part no. S-PS socket separately below.

DPST-NO, DPST-NC, SINGLE-SIDE STABLE

Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Coil Power (mW)	Stock No.	Price Each		
					1-24	25-49	50-99
● S2EB-5V	5	130	192	46F5812	17.68	16.21	14.48
● S2EB-12V	12	720	200	46F5814	17.68	16.21	14.48
● S2EB-24V	24	2850	202	46F5815	17.68	16.21	14.48

DPST-NO, DPST-NC, 2-COIL LATCHING

● S2EB-L2-5V	5	130	192	46F5817	19.14	17.55	15.67
● S2EB-L2-12V	12	720	200	46F5819	19.14	17.55	15.67
● S2EB-L2-24V	24	2850	202	64K3178	17.55	16.09	14.37

4PST-NO, SINGLE-SIDE STABLE

● S4EB-5V	5	130	192	46F5822	18.79	17.23	15.39
● S4EB-6V	6	180	200	46F5823	18.79	17.23	15.39
● S4EB-12V	12	720	200	46F5824	18.79	17.23	15.39
● S4EB-24V	24	2850	202	64K3180	18.79	17.23	15.39

4PST-NO, 2-COIL LATCHING

● S4EB-L2-5V	6	130	200	64K3179	20.12	18.45	16.47
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SOCKET

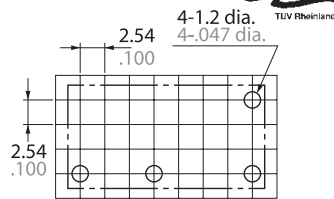
Mfg. Part No.	Description	Stock No.	Price Each			
			1-24	25-49	50-99	100-499
● S-PS	PC Terminal	46F5832	3.24	2.97	2.65	2.26

(3671)

MINIATURE POWER PC BOARD RELAYS



Panasonic Electric Works Corporation of America



DPDT Single Side Stable

Sealed relays are ideal for office equipment and industrial electronic devices. High sensitivity: 190mW pick-up power. 0.300" (7.62) row spacing. Initial contact resistance: 30 milliohms. Contact material: gold flash over silver alloy. Nominal operating power: 300mW. 3,000Vrms between contact and coil; 1,000Vrms between open contacts (meets FCC Part 2) **CONTINUED**

MINIATURE POWER PC BOARD RELAYS (CONT.)

68). Dimensions: 0.413"H x 0.795"W x 0.433"D. "-F" suffix indicates RoHS compliant version. UL recognized, CSA certified, TÜV approved. Order sockets for DSP relays separately below. 2 coil latching versions also available; go online or call.

SPST-NO, SPST-NC, SINGLE SIDE STABLE

Mfg. Part No.	Carry Current (A)	Coil Voltage (VDC)	Coil Resist. (Ω)	Stock No.	Price Each			
					1-24	25-49	50-99	100-499
● DSP1-DC5V-F	5	5	83	86K9347	7.82	7.17	6.40	5.46
● DSP1-DC12V-F	5	12	480	86K9345	8.25	7.56	6.75	5.76
● DSP1-DC24V-F	5	24	1920	86K9346	8.25	7.56	6.75	5.76

SPDT, 2 COIL LATCHING

● DSP1-L2-DC12V	5	12	480	46F5731	8.70	7.97	7.12	6.07
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SPST-NO, SINGLE SIDE STABLE

● DSP1A-DC5V	8	5	83	50F4146	7.32	6.71	5.99	5.11
● DSP1A-DC9V	8	9	270	64K3103	7.32	6.71	5.99	5.11
● DSP1A-DC12V	8	12	480	64K3101	7.32	6.71	5.99	5.11
● DSP1A-DC24V	8	24	1920	64K3102	7.32	6.71	5.99	5.11

DPDT, SINGLE SIDE STABLE

● DSP2A-DC5V	5	5	83	64K3104	8.09	7.42	6.62	5.65
● DSP2A-DC12V	5	12	480	99F7801	8.09	7.42	6.62	5.65
● DSP2A-DC24V	5	24	1920	52F9206	8.09	7.42	6.62	5.65

DPDT, 2 COIL LATCHING

● DSP2A-L2-DC5V	5	5	83	96B1839	9.04	8.29	7.40	6.31
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SOCKETS FOR DSP RELAYS

Mfg. Part No.	For Use With	Stock No.	Price Each	
			1-24	25-49
● DSP1A-PS	PC Board Mount DSP1A Relays	50F4152	2.96	2.71
● DSP2A-PS	PC Board Mount DSP1A, DSP1, DSP2A Relays	50F4154	4.16	3.82
● DSP2A-PSL2	PC Board Mount DSP1A, DSP1A-L2, DSP1, DSP1-L2, DSP2A, DSP2A-L2 Relays	50F4155	4.40	4.03

(3692)

ALFG SERIES 22A/31A POWER RELAYS



Panasonic Electric Works Corporation of America



Just Added

- Specifications:**
- Contact rating: 22A at 250VAC; 31A at 250VAC
 - Contacts: SPST-NO
 - Contact gap: 1.5mm (.059")
 - Surge breakdown voltage: 6kV
 - Contact resistance: 100mΩ
 - Contact material: AgSnO₂
 - Switching power: 5,500VA (standard); 7,750VA (high capacity)
 - Operating power: 1,400mW
 - Insulation resistance: 1,000MΩ

- Features:**
- High capacity control
 - Ideal for Solar inverter
 - Coil holding voltage contributes to saving energy of equipment
 - High insulation resistance
 - Conforms to various safety standards
 - Compact size

STANDARD CAPACITY RELAYS

Mfg. Part No.	Current (A)	Coil Voltage (VDC)	Coil Resist. (Ω)	Coil Current (mA)	Termination	Stock No.	Price Each		
							1-24	25-49	50-99
● ALFG1PF12	22	12	103	117	Thru Hole	09R2877	4.12	3.78	3.36
● ALFG1PF24	22	24	410	59	Thru Hole	09R2878	4.24	3.90	3.46

HIGH CAPACITY RELAYS

● ALFG2PF12	31	12	103	117	Thru Hole	09R2879	6.01	5.52	4.90
● ALFG2PF24	31	24	410	59	Thru Hole	09R2880	6.13	5.63	5.00

(148558)



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(148830)

POWER PCB RELAYS

HE SERIES 48A POWER RELAYS



Panasonic Electric Works Corporation of America



Just Added

Specifications:

- Contact rating: 48A at 250VAC
- Contacts: SPST-NO
- Contact gap: 2.5mm (.099")
- Surge breakdown voltage: 10kV
- Contact material: AgNi
- Contact carrying power: 12,000VA
- Operating power: 1,920mW
- Insulation resistance: 1,000MΩ

Features:

- Ideal for Solar inverter
- Contributes to energy saving in devices due to reduced coil hold voltage
- High insulation resistance
- Conforms to various safety standards
- Compact size: (LxWxH) 33 x 38 x 36.3mm

Mfg. Part No.	Current (A)	Coil Voltage (VDC)	Coil Resist. (Ω)	Coil Current (mA)	Termination	Stock No.	Price Each		
							1-24	25-49	50-99
● HE1AN-P-DC12V-Y5	48	12	75	160	Blade	09R2888	30.35	27.20	24.28
● HE1AN-P-DC24V-Y5	48	24	300	80	Blade	09R2889	30.35	27.20	24.28

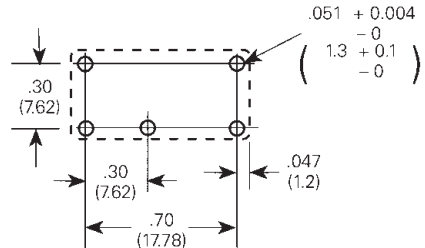
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OEG 3A SLIM LINE PC BOARD RELAYS (CONT.)

Mfg. Part No.	Coil Voltage (VDC)	Coil Resistance (Ω) ± 10%	Stock No.	Price Each			
				1-24	25-49	50-99	100-499
● PCN-105D3MHZ	5	208	21M6845	1.30	1.24	1.17	1.11
● PCN-112D3MHZ	12	1200	20M7033	1.30	1.24	1.17	1.11
● PCN-124D3MHZ	24	4800	20M7034	1.48	1.41	1.33	1.26

(80130)

SCHRACK 5A PC BOARD RELAYS

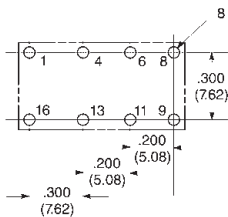


PE series are single contact relays with cadmium-free contact material. Contact arrangement: SPDT. Nominal coil power: 200mW. Rated 5A@250VAC. Flux-tight design is suitable for flow soldering. Dimensions in inches (mm): 0.787 (20.0)L x 0.394 (10.0)W x 0.394 (10.0)H. Latching models also available, go online or call.

Mfg. Part No.	Coil Voltage (VDC)	Pull-in Voltage (VDC)	Drop-out Voltage (VDC)	Coil Resist. (Ω) ± 10%	Stock No.	Price Each	
						1-24	25-49
● PE014005	5	3.8	0.5	172	36K2009	4.38	3.97
● PE014012	12	9.0	1.2	685	36K3449	3.97	3.64
● PE014024	24	18.0	2.4	2725	36K3450	3.97	3.64

(13027)

AXICOM 3A HIGH-SENSITIVITY DIP PC BOARD RELAYS



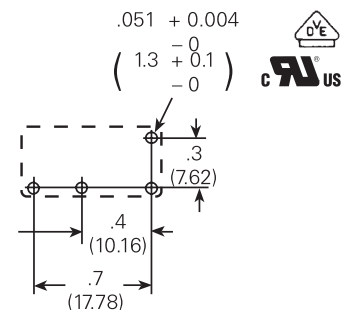
DIP PC board relays have DPDT gold-plated silver-nickel contacts. They are industry standard DIP footprint and come in an immersion-cleanable [IP67] plastic sealed case. Dimensions in inches (mm): 0.799 (20.3) L x 0.398 (10.1) W x 0.45 (11.43) H. Meet FCC Part 68 voltage surge. Mate with 16-pin socket. 3A switching and carrying current.

Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω) ± 10%	Nominal Power (mW)	Stock No.	Price Each		
					1-24	25-49	50-99
● V23105A5401A201	5	62	400	36K7701	1.90	1.66	1.51
● V23105A5301A201	5	125	200	35K5064	1.92	1.68	1.52
● V23105A5001A201	5	167	150	91B4054	1.66	1.50	1.41
● V23105A5403A201	12	360	400	36K2090	1.90	1.66	1.51
● V23105A5303A201	12	720	200	35K5065	1.92	1.68	1.52
● V23105A5003A201	12	960	150	36K7699	2.00	1.75	1.55
● V23105A5505A201	24	1050	500	36K3724	2.02	1.77	1.60
● V23105A5405A201	24	1440	400	36K7702	1.82	1.75	1.60
● V23105A5305A201	24	2880	200	35K2063	2.06	1.81	1.64
● V23105A5005A201	24	3840	150	36K7700	1.89	1.78	1.64
● V23105A5407A201	48	5760	400	35K3236	2.83	2.48	2.25
● V23105A5307A201	48	11520	200	34K0284	2.88	2.52	2.28

(148395)

SCHRACK 6A MINIATURE PCB RELAYS

Just Added

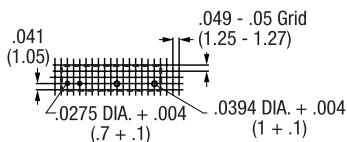
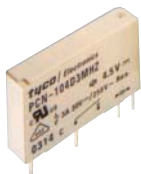


RE series feature 1 N/O (make) single contact rated 6A at 250VAC (440VAC max). Mechanical life: >30 x 10⁶ operations. Nominal coil power: 200mW. Dielectric strength: coil-contact = 4,000VAC; contact-contact = 1,000VAC. Dimensions: 0.787L x 0.394W x 1.417H (20.0L x 10.0W x 10.6mmH). UL recognized, VDE approved.

Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Coil Current (mA)	Stock No.	Price Each		
					1-24	25-49	50-99
● RE 030 005	5	125	40.0	52F908	5.76	5.04	4.56
● RE032005*	5	125	...	08H3476	5.51	5.00	4.55
● RE030006	6	180	...	92C1858	4.14	3.76	3.42
● RE 030 012	12	720	16.7	17M1743	5.47	4.97	4.56
● RE 030 024	24	2880	8.3	52F910	5.53	5.02	4.56

*All figures are given for cold coil (at ambient temperature +20°C/68°F); †Coil resistance Ω ± 15% +AgNi 0.15 gold plated (3722)

OEG 3A SLIM LINE PC BOARD RELAYS



- 5mm wide, permitting high density spacing
- SPST contract arrangement
- Sensitive coil requires only 120mW coil power
- Well suited for HVAC controls, I/O panels, PLCs
- Bifurcated AgNi contacts
- Maximum switching rate: 12,000 ops./min/ (no load); 100 ops./min. (rated load)

- Expected mechanical life: 20 million operations (no load)
- Expected electrical life: 100,000 operations (rated load)
- Minimum load: 1mA @ 5 VDC
- Operate power: 58.8mW

Dimensions in inches (mm): 0.492 (12.5)H x 0.787 (20.0)W x 0.197 (5.0)L

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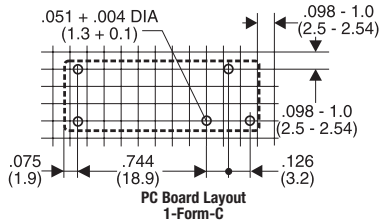
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SCHRACK 8A MINIATURE PC BOARD RELAYS

Just Added



RYII series are sealed 1-pole relays with silver-cadmium oxide single C/O contact rated 8A at 250VAC (440VAC max. breaking voltage). Mechanical life: >30 x 10⁶ operations. Dielectric strength: coil-contact = 5,000VAC; contact-contact = 1,000VAC. Dimensions: 28.5 x 10.1 x 12.3mm. UL recognized, VDE approved. 6VDC version also available; *go online or call*.

1 C/O, PINNING 3.2mm, FLUX PROOF

Mfg. Part No.	Coil* Voltage (VDC)	Coil* Current (mA)	Coil* Resist. (Ω) ± 10%	Stock No.	Price Each	
					1-24	25-49
● RY210012	12	19.3	620	18C5386	3.91	3.43
● RY210024	24	10.2	2350	17M1790	3.91	3.43
● RY211024**	24	10.2	2350	08H3766	3.92	3.44

1 N/O PINNING, 5mm, FLUX PROOF

● RY530005	5	44	112	08H3769	3.92	3.44
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1 C/O PINNING, 3.2mm, WASH-TIGHT

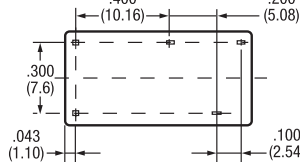
● RY610005	5	44.0	113	48F5539	3.91	3.43
● RY610012	12	19.3	620	52F1002	3.91	3.43
● RY610024	24	10.2	2350	52F1003	3.52	3.09
● RY611024**	24	10.2	2350	29C5433	3.91	3.43

*All figures are given for cold coil (at ambient temperature +20°C/68°F).
**Contact material: Silver-nickel 0.15 (3725)

OEG 5-10A MINIATURE POWER PC BOARD RELAYS



- Cadmium-free AgSnO contacts
- SPDT contacts
- Compact size: 20L x 10W x 15.2mmH
- High surge voltage of 8000V



Used in air conditioners, refrigerators and microwave ovens, these relays have maximum switching power of 1385VA, 150W. Contact rating: 5A/3A @ 30VDC resistive, 5A/3A @ 277VAC resistive, 10A @ 125VAC resistive. Maximum switching voltage: 277VAC, 30VDC. Duty cycle: continuous. Nominal power: 400mW. 200mW version also available; *go online or call*.

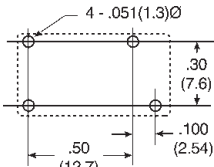
Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω) ±10%	Stock No.	Price Each			
				1-9	10-24	25-49	50-99
● PCH-105D2H	5	62.5	36K2006	1.47	1.32	1.26	1.18
● PCH-112D2H	12	360	36K2007	1.47	1.32	1.26	1.18
● PCH-124D2H	24	1440	36K3448	1.51	1.36	1.30	1.22

(68509)

P&B 3A-10A SEALED MINIATURE PC BOARD RELAYS



Contacts are SPST-NO. Coil-to-contact spacing of 6.5mm provides 4000VAC dielectric. Dimensions in inches (mm): .716 (18.2)L x .40 (10.2)W x .57 (14.7)H. Sealed enclosure, immersion cleanable. Vented (fluxtight) models also available; *go online or call*.



3A, SILVER CONTACTS

Mfg. Part No.	Coil Voltage (VDC)	Coil Resistance (Ω)	Must Operate Voltage (VDC)	Must Release Voltage (VDC)	Stock No.	Price Each	
						1-24	25-49
● T77S1D3-05	5	45	2.25	0.15	17M3056	1.80	1.58
● T77S1D3-12	12	720	9	0.6	35K3228	1.74	1.58
● T77S1D3-24	24	2800	18	1.2	35K3229	1.54	1.40

➔ CONTINUED ➔

P&B 3A-10A SEALED MINIATURE PC BOARD RELAYS (CONT.)

10A, SILVER ALLOY CONTACTS

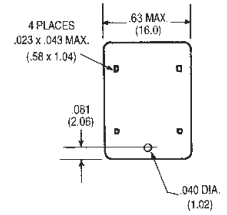
Mfg. Part No.	Coil Voltage (VDC)	Coil Resistance (Ω)	Must Operate Voltage (VDC)	Must Release Voltage (VDC)	Stock No.	Price Each	
						1-24	25-49
● T77S1D10-05	5	55	3.75	0.25	91F2922	1.80	1.58
● T77S1D10-12	12	320	9	0.6	17M3054	1.80	1.58
● T77V1D10-12	12	320	9	0.6	66F7846	1.70	1.56
● T77S1D10-24	24	1280	18	1.2	17M3055	1.72	1.56
● T77V1D10-24	24	1280	18	1.2	17M3057	1.39	1.28

(48471)

P&B 10A MINIATURE PC BOARD RELAYS



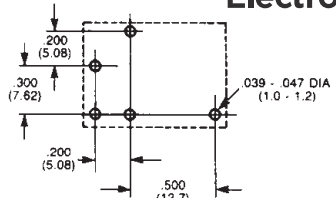
Initial dielectric strength: 2,000Vrms 50/60Hz (1 min.) between coil and contacts. Dimensions in inches (mm): .87 (22.0)L x .63 (16.0)W x .65 (16.4)H. Immersion-cleanable, sealed package. Silver cadmium oxide contacts. UL class F (140°C) coil standard. Plastic materials employ UL94V-0 flammability. UL recognized, CSA certified, VDE approved.



Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Contacts	Stock No.	Price Each	
					1-24	25-49
● T7NS5D1-05	5	70	SPDT	17M3048	1.24	1.13
● T7NS1D1-12	12	400	SPST-NO	18M9743	1.49	1.31
● T7NS5D1-12	12	400	SPDT	17M3049	1.34	1.21
● T7NS5D1-24	24	1600	SPDT	16F3667	1.32	1.21
● T7NS1D1-24	24	1600	SPST-NO	17M3047	1.49	1.31
● T7NS5D1-48	48	6400	SPDT	91F1797	1.97	1.73

(3371)

P&B 10A PC BOARD RELAYS



T73 series miniature PC board relays are standard coil, non-latching (monostable) with printed circuit terminals. Contact material is silver-cadmium oxide. Relays have 10A switching capacity. SPDT contacts. Resist high temperature and various chemical solutions. Immersion cleanable, plastic sealed case. UL Class F insulation system standard. 3-48VDC models, vented (flux-tight) models and SPST-NO contacts also available; *go online or call*. Dimensions in inches(mm): 0.610(15.5)H x 0.693(17.6)L x 0.877(22.3)W. UL recognized, CSA certified.

Mfg. Part No.	Contacts	Coil Voltage (VDC)	Coil Resist. (Ω)	Stock No.	Price Each			
					1-24	25-49	50-99	100-249
● T75S1D112-24	SPST-NO	24	2270	08H5171	4.14	3.83	3.50	3.00
● T73S5D15-05	SPDT	5	56	17M3050	2.13	1.97	1.85	1.55
● T73S5D15-12	SPDT	12	320	17M3051	2.34	2.14	1.96	1.55
● T73S5D15-24	SPDT	24	1150	17M3052	2.35	2.16	1.96	1.55

(3125)

Expert technical support

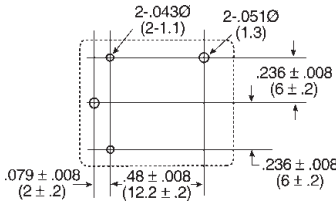
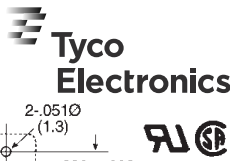
Chat online to our team of engineers, or connect to them through your representative.

(148838)

POWER PCB RELAYS

P&B 12A MINIATURE POWER PC BOARD RELAYS

Just Added



T7C series feature 12A switching capacity and have silver-cadmium oxide SPDT contacts rated: 10A @ 240VAC/28VDC; 12A @ 120VAC; 5A @ 240VAC/28VDC, 8A @ 120VAC. Class F coil insulation. Dimensions in inches (mm): .795 (20.2)L x .65 (16.5)W x .795 (20.2)H. Sealed enclosure is immersion cleanable with knock-off nib, 3-48VDC models also available; go online or call. For use with optional 27E1064 socket and 20C430 hold-down spring; go online or call.

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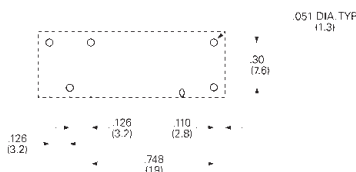
Mfg. Part No.	Contacts	Coil Voltage (VDC)	Coil Resist. (Ω)	Must Operate Voltage (VDC)	Must Release Voltage (VDC)	Stock No.	Price Each		
							1-24	25-49	50-99
● T7CS1D-12	SPST-NO	12	400	9	0.6	08H5123	1.27	1.14	1.06
● T7CSSD-05	SPDT	5	70	3.5	0.25	17M3042	1.49	1.30	1.24
● T7CSSD-06	SPDT	6	100	4.5	0.3	17M3043	1.51	1.32	1.25
● T7CSSD-09	SPDT	9	225	6.75	0.45	25C6970	1.28	1.15	1.07
● T7CSSD-12	SPDT	12	400	9	0.6	66F7854	1.51	1.32	1.26
● T7CSSD-24	SPDT	24	1600	18	1.2	17M3044	1.51	1.32	1.25

VENTED (FLUX-TIGHT)

● T7CV5D-05	SPDT	5	70	3.5	0.25	17M3045	1.54	1.34	1.22
● T7CV5D-06	SPDT	6	100	4.5	0.3	66F7856	1.54	1.38	1.28
● T7CV5D-12	SPDT	12	400	9	0.6	17M3046	1.47	1.28	1.22
● T7CV5D-24	SPDT	24	1600	18	1.2	66F7858	1.25	1.12	1.04

(3331)

P&B 14A PC BOARD MINIATURE RELAYS

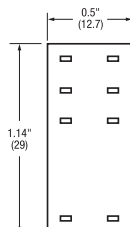


High sensitivity-coil power as low as 212mW
 SPDT contacts
 Single coil, non-latching
 Immersion cleanable
 Dimensions: 0.591H x 0.394W x 1.181"L (15mm x 10mm x 30mm). 3-60VDC types and SPST-NO contacts available; go online or call Newark.

Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Stock No.	Price Each		
				1-24	25-49	100-249
● T75SSD112-05	5	118	93F3105	3.31	3.05	2.90
● T75SSD112-12	12	275	93F3106	4.64	4.22	4.00
● T75SSD112-24	24	1110	93F3108	3.99	3.66	3.46

(38070)

P&B 8-16A MINIATURE POWER PC BOARD RELAYS



SPST through DPDT contacts
 Low-profile 15.7mm height
 Immersion cleanable and flux-tight versions available
 VDE 10mm spacing, 5kV dielectric, coil-to-contacts
 UL class F coil insulation system
 Conform to UL 508, 1873, 353 and 1950

Just Added

CONTINUED

P&B 8-16A MINIATURE POWER PC BOARD RELAYS (CONT.)

8A-16A relays are miniature and low profile. Expected mechanical life: 30 million operations. Sensitive coil: 400mW. Dimensions: 0.62"H x 1.14"L x 0.50"W; pin length = 0.17". All units listed have contact material of silver-nickel 9%. Suffix "F" in mfg. part no. indicates class F coil insulation. No type suffix indicates class B coil insulation. AC coil relays are Schrack brand. 10A, other contact styles, latching, high-temperature, and high-inrush and 200mW sensitive coil models also available; go online or call.

8A, DC COIL

Mfg. Part No.	Carry Current (A)	Contacts	Coil Voltage (VDC)	Coil Resist. (Ω)	Vented (V)/Sealed (S)	Stock No.	Price Each		
							1-24	25-49	
● RTE24005	8	DPST-NC	5	62	...	83F2043	2.76	2.42	
● RTE44012F	8	DPST-NC	12	360	S	36K7604	2.71	2.37	
● RTE24024	8	DPST-NC	24	1440	...	17M9933	2.76	2.42	
● RTE44024F	8	DPST-NC	24	1440	S	36K7605	4.32	3.78	
● RTE24048F	8	DPST-NC	48	5520	...	17C6476	2.28	2.09	
● RT424024F	8	DPDT-2C/O	24	1440	V	36K2038	2.26	2.03	
● RT424024	8	DPDT-2C/O	24	1440	V	16F393	2.76	2.42	
● RTE24005F	8	DPDT	5	62	S	35K4865	2.19	2.01	
● RTE24006F	8	DPDT	6	90	...	93B2959	2.18	2.00	
● RTE24006F	8	DPDT	6	90	S	17C7176	2.62	2.29	
● RT424012F	8	DPDT	12	360	V	94B9919	2.34	2.13	
● RTE24012	8	DPDT	12	360	S	16F397	2.76	2.42	
● RTE24012F	8	DPDT	12	360	S	36K2035	3.45	3.21	
● RT424F24	8	DPDT		886	V	93B6581	4.08	3.57	
● RTE24024F	8	DPDT		1440	S	94B9941	2.99	2.73	
● RTE24110	8	DPDT		110	28800	...	97B3365	4.10	3.75

10A, DC COIL

● RT174024	10	SPDT	24	2304	...	08H3729	1.79	1.64
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12A, DC COIL

● RT114005	12	SPDT	5	62	...	14C7823	1.79	1.64
● RTB14005F	12	SPDT	5	62	S	94B9851	2.16	1.89
● RTB14006F	12	SPDT	6	90	S	34K9829	1.53	1.40
● RT114012F	12	SPDT	12	360	V	36K3471	3.11	2.85
● RTB14012F	12	SPDT	12	360	S	36K7601	1.35	1.24
● RTB14024F	12	SPDT	24	1440	S	36K2034	1.73	1.51
● RTB34012F	12	SPST-NO	12	360	S	36K7602	3.43	3.01
● RTB34024F	12	SPST-NO	24	1440	S	35K3224	2.89	2.66
● RT114024F	12	SPST	24	1440	...	94B9803	3.43	3.01

16A, DC COIL

● RTD14005F	16	SPDT	5	62	S	36K7603	2.36	2.16
● RT314A12	16	SPDT	12	360	...	08H3738	3.16	2.89
● RT314012F	16	SPDT	12	360	V	36K2036	2.76	2.55
● RTD14012F	16	SPDT	12	360	S	94B9891	3.02	2.65
● RT314F24	16	SPDT	24	886	...	08H3741	3.43	3.13
● RT314024	16	SPDT	24	1440	V	36K2037	2.11	1.85
● RT314024F	16	SPDT	24	1440	V	36K7606	2.11	1.85
● RTD14024F	16	SPDT	24	1440	S	33K3674	2.73	2.51
● RTD34012F	16	SPST-NO	12	360	S	36K3470	3.11	2.85
● RT334024F	16	SPST-NO	24	1440	V	17C6470	3.05	2.67
● RTD34024F	16	SPST-NO	24	1440	S	34K0187	3.43	3.01

8A, AC COIL

Mfg. Part No.	Carry Current (A)	Contacts	Coil Voltage (VAC)	Coil Resist. (Ω)	Vented (V)/Sealed (S)	Stock No.	Price Each	
							1-24	25-49
● RTE24615	8	DPDT	115	8100	S	48F3750	6.72	6.14
● RT424615	8	DPDT	115	8100	V	48F1292	4.70	4.47
● RT424730	8	DPDT	230	32500	...	85C0866	10.15	8.88
● RT424524	8	DPDT	24	350	...	94C4293	5.71	4.99

12A, AC COIL

● RTB14615*	12	SPDT	115	8100	S	48F3748	4.84	4.38
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16A, AC COIL

● RT314730	16	SPDT	30	32500	...	92C9053	3.05	2.79
● RTD14615*	16	SPDT	115	8100	S	36K3469	5.40	4.73
● RT314615	16	SPST-NO	115	8100	...	08H3745	2.66	2.33

*Schrack brand (48391)

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(148843)

POWER PCB RELAYS • SAFETY PCB RELAYS

SCHRACK 8-16A POWER PCB BOARD RELAYS



- Contacts: SPST-NC, SPST-NO, DPDT
- 4 kV / 8 mm coil-contact
- Pinning 3.5 or 5 mm (8 / 12A) and 5 mm (16A)
- PC board sockets



Applications: power supplies, domestic appliances, heating control and installation. Dimensions: 25.5H x 29.0W x 12.6D mm. Refer to the relay socket usage guide for sockets and accessories.

RELAYS

Mfg. Part No.	Contacts	Carry Current (A)	Coil Voltage (VDC)	Coil Resist. (Ω)	Coil Current (mA)	Stock No.	Price Each	
							1-24	25-49
● RP418024	SPST-NC	12	24	1100	21.8	17M1784	4.51	3.95
● RP310024	SPST-NC	16	24	1100	21.8	17M1783	4.58	4.02
● RP710024	SPST-NC	16	24	1100	21.8	17M1785	4.58	4.02
● RP3SL024	SPST-NO	16	24	1100	21.8	96B6427	6.59	5.76
● RP838012	SPST-NO	20	12	270	44.4	07C8802	3.83	3.35
● RP310012	SPDT	25	12	270	44.4	90B3204	4.56	3.99
● RP410024	SPDT	20	24	1100	21.8	14C7159	4.50	3.93
● RP710012	SPDT	25	12	270	44.4	99B2228	4.56	3.99
● RP420012	DPDT	8	12	270	44.4	90B4410	4.58	4.02
● RP821012	DPDT	8	12	270	44.4	08H3673	4.58	4.02
● RP820012	DPDT	8	12	270	44.4	23C8588	4.58	4.02
● RP420024	DPDT	8	24	1100	21.8	51B969	4.58	4.02
● RP421024	DPDT	8	24	1100	21.8	01C0518	4.58	4.02
● RP821024	DPDT	8	24	1100	21.8	92B8192	4.58	4.02
● RP820024	DPDT	8	24	1100	21.8	90B8545	4.58	4.02

SOCKETS AND ACCESSORIES

Mfg. Part No.	Description	For Use With	Stock No.	Price Each	
				1-24	25-49
● RP78602	PC board Socket 5mm pinning	RP, RT, RY Series Relays	48F1291	2.02	1.86
● RP16100	Plastic Retaining Clip, relay height 25.5 mm	RP78601, RP78602 Relays	48F1289	0.38	0.33

(84966)

HIGH IN RUSH 16A POWER PCB BOARD RELAYS



- 165A/20ms inrush peak current
- 1 pole 16 A, 1NO contact
- 10A at 250VAC making and breaking capacity
- Mono- or bistable coil
- 5kV/10mm coil-contact
- Reinforced insulation
- Optional test tab (manual operator)



NON-LATCHING (MONOSTABLE COIL)

Mfg. Part No.	Contacts	Coil Voltage (VDC)	Coil Resist. (VDC)	Stock No.	Price Each
					1-24
● RTS3T012	SPST-NO	12	360	46M2060	12.31
● RTS3T024	SPST-NO	24	1440	46M2061	12.94

LATCHING (BISTABLE COIL)

● RTS3TA12	SPST-NO	12	360	46M2059	15.07
● RTT3TA12*	SPST-NO	12	360	46M2062	18.72

* With test tab (manual operator) (94465)

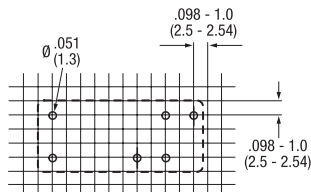
SCHRACK SAFETY RELAYS



Just Added



SR2M Series (V23047)



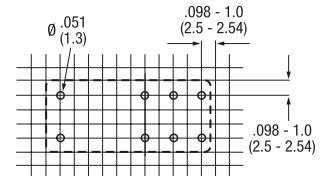
SR2M Series (V23047)

➔ CONTINUED ➔

SCHRACK SAFETY RELAYS (CONT.)



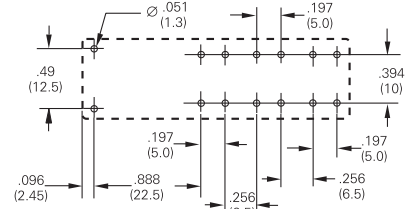
SR4M Series



SR4M Series



SR6M Series (V23050)



SR6M Series (V23050)

- Meet requirements of the "Employees Liability Insurance Associations" for the forcible acuation of contact pile-up
- Separate contact chambers so that the actuating system is reliably isolated from the contact spring set, even if the wire or spring breaks, clearance and creepage distances according to VDE 0110 insulation group C 250
- Maximum switching current 6-8A

All are UL recognized file no., E214024. Sensitive versions, models with increased spacing and DIN mount modules also available; go online or call.

SR2M series (V23047) neutral monostable relays with two forcibly guided contacts are rated load voltage: 250VDC maximum. Continuous current: 6A. Nominal power: 700mW.

Mfg. Part No.	Contacts	Coil Voltage (VDC)	Coil Resist. (Ω)	Stock No.	Price Each		
					1-24	25-49	50-99
● V23047-A1012-A511	DPST-1NO/1NC	12	206	36K2084	7.25	6.35	5.74
● V23047-A1024-A511	DPST-1NO/1NC	24	823	81C8797	7.25	6.35	5.74
● V23047-A1005-A501	DPDT	5	35.7	81C9441	8.53	7.54	6.84
● V23047-A1012-A501	DPDT	12	206	36K2083	7.41	6.54	5.91
● V23047-A1024-A501	DPDT	24	823	36K2085	7.46	6.54	5.91

SR4 D/M series have four forcibly guided contacts rated 250VAC. Current rating: 8A. Nominal power: 800mW.

● SR4D4024	DPST-1NO/1NC	24	720	36K3562	19.99	17.50	15.83
● SR4M4024	4PST-3NO/1NC	24	720	07H6871	19.80	17.33	15.68

SR6 series (V23050) neutral monostable relays with six forcibly guided contacts are rated 400 VAC/VDC. Current rating: 8A. Nominal power: 1.2W.

● V23050-A1021-A542	6PST-4NO/2NC	21	368	97H6233	24.89	21.99	19.94
● V23050-A1024-A542	6PST-4NO/2NC	24	480	36K2086	21.74	19.03	17.22

(33997)

SAFETY PCB BOARD RELAYS



➔ CONTINUED ➔

SAFETY PCB RELAYS • REED RELAYS

SAFETY PC BOARD RELAYS (CONT.)

- Force-guided contacts
- Max. switching voltage: 250VAC
- Meet European safety standard EN50205



SRP-SIM4

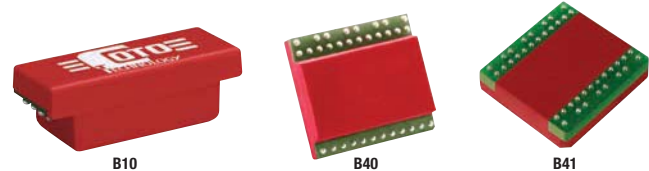
Mfg. Part No.	Package	Contacts	Coil Voltage (VDC)	Coil Resist. (Ohms)	Current Rating (A)	Stock No.	Price Each
● SGR282Z 12VDC	SGR282Z	DPDT	12	140	6	30M9885	10.62
● SGR282Z 24VDC	SGR282Z	DPDT	24	720	6	30M9886	10.62
● SIF312 12VDC	SIF 4	4PST-3NO/1NC	12	205	8	30M9889	23.42
● SIF312 24VDC	SIF 4	4PST-3NO/1NC	24	820	8	30M9890	24.41
● SIF422 12VDC	SIF 6	6PST-4NO/2NC	12	215	8	30M9891	24.79
● SIF422 24VDC	SIF 6	6PST-4NO/2NC	24	870	8	30M9892	24.90
● SIM112 12VDC	SIM 2	DPST-1NO/1NC	12	270	8	30M9893	13.42
● SIM112 24VDC	SIM 2	DPST-1NO/1NC	24	1100	8	30M9894	12.91
● SIM222 12VDC	SIM 4	4PST-2NC/2NO	12	140	8	30M9895	19.28
● SIM222 24VDC	SIM 4	4PST-2NC/2NO	24	600	8	30M9896	19.28
● SIM312 12VDC	SIM 4	4PST-3NO/1NC	12	140	8	30M9897	18.55
● SIM312 24VDC	SIM 4	4PST-3NO/1NC	24	600	8	30M9898	19.28
● SIR282 12VDC	SIR282	DPDT	12	140	8	30M9899	14.00
● SIR282 24VDC	SIR282	DPDT	24	720	8	30M9900	14.00
● SIS112 12VDC	SIS 2	DPST-1NO/1NC	12	520	6	30M9901	17.73
● SIS112 24VDC	SIS 2	DPST-1NO/1NC	24	2100	6	30M9902	17.10
● SIS312 12VDC	SIS 4	4PST-3NO/1NC	12	285	6	30M9903	25.76
● SIS312 24VDC	SIS 4	4PST-3NO/1NC	24	1150	6	30M9904	25.84
● SIS422 12VDC	SIS 6	6PST-4NO/2NC	12	215	6	30M9905	29.26
● SIS422 24VDC	SIS 6	6PST-4NO/2NC	24	860	6	30M9906	28.22

RELAY SOCKETS

Mfg. Part No.	Mounting Type	Number of Contacts	Operating Current (A)	Operating Voltage (VAC)	Stock No.	Price Each
● SRD-SGR2	DIN Rail	8	16	300	30M9907	6.66 6.34
● SRD-SIM4	DIN Rail	10	6	250	30M9908	19.41 18.49
● SRP-SGR2	PC Board	8	16	300	30M9909	1.76 1.67
● SRP-SIM4	PC Board	10	7	250	30M9910	11.18 10.65

(90369)

BALL GRID ARRAY RELAYS



- Ability to pass GHz signals
- Rise time <40pSec
- 50Ω characteristic impedance

- Low capacitance
- Tape & reel packaging standard

Allow for shorter RF paths in a controlled 50Ω environment to minimize signal attenuation. Ability to switch or pass signals with wider bandwidth and faster rise time than alternative technologies. Can be integrated easily on boards designed for surface mount processing. B40 and B41 series contain four independent 1 form A channels in one quad package. Contact power: 3W. Switching voltage: 125V. Carrying current: 0.5A. Must release voltage: 0.4VDC.

Mfg. Part No.	Contacts	Coil Voltage (VDC)	Coil Resist. (Ω)	Must Operate Voltage (VDC)	Max. Switching Current (A)	Tape Cut	
						Stock No.	Price Each
B10-03B	SPST-NO	3.3	55	2.4	0.25	97H6475	20.36 19.25
B10-05B	SPST-NO	5	150	3.8	0.25	97H6476	13.73 12.98
B40-0002B	4PST-NO	3.3	55	2.4	0.25	97H6477	241.34 228.23
B40-0003B	4PST-NO	5	166	3.8	0.25	97H6478	241.34 228.23
B41-0002	4PST-NO	3.3	55	2.4	0.4	78H3462	244.01 230.76
B41-0001	4PST-NO	5	160	3.8	0.4	97H6479	244.01 230.76

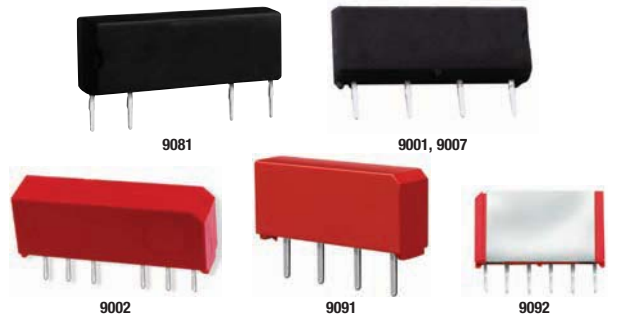
(79006)

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(148886)

MOLDED SIP REED RELAYS



Series	Outside Package Dimensions in inches (mm)
9081	.890(22.60) L x .295(7.50) W x .315(8.00) H
9001, 9002, 9007	.760(19.34) L x .200(5.08) W x .300(7.62) H
9091	.600(15.24) L x .275(6.99) W x .150(3.81) H
9092	.600(15.24) L x .150(3.81) W x .350(8.89) H

- Contact carrying power: 10W
- Switching current: 0.5A
- Switching voltage: 200VAC
- Operating temperature: -20°C to +85°C

9001 series is engineered for low-level switching. 9002 series is ideal for 50-ohm transmission line switching as found in automatic test equipment, instrumentation, RF, telecommunications, and other applications. Designed for mounting on 0.2" (5.08) centers and automatic insertion using SIP equipment. Rugged, epoxy-molded, lead frame package is impervious to cleaning fluids and enables use in harsh, industrial environments. -01 suffix denotes internal diode option. Relays with a magnetic shield coil suppression diode are also available. 9091 and 9092 series relays feature similar functional characteristics as 9001 series, but require only 40% of the board area.

SPST

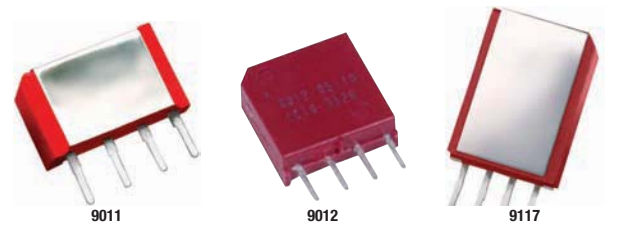
Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Must Operate/ Must Release Volt. (VDC)	Carry Current (A)	Stock No.	Price Each
● 9001-05-00	5	500	3.75/0.4	1.5	62K1742	3.12 2.95
● 9001-05-01	5	500	3.75/0.4	1.5	62K1743	3.04 2.88
● 9001-05-02	5	500	8.75/0.4	1.5	62K1744	4.81 4.55
● 9001-12-00	12	1000	9.1/1.0	1.5	62K1745	3.12 2.95
● 9001-12-01	12	1000	9.1/1.0	1.5	62K1746	3.26 3.09
● 9002-05-00	5	350	3.75/0.4	1.5	62K1751	3.80 3.60
● 9002-05-01	5	350	3.75/0.4	1.5	62K1752	4.17 3.95
● 9002-12-00	12	1000	9.1/1.0	1.5	10M8506	4.05 3.83
● 9002-12-01	12	1000	9.1/1.0	1.5	62K1754	4.17 3.95
● 9007-05-00	5	500	3.75/0.4	1.0	62K1784	1.20 1.14
● 9007-05-01	5	500	3.75/0.4	1.0	62K1785	1.18 1.12
● 9007-12-00	12	1000	9.1/1.0	1.0	62K1786	1.20 1.14
● 9007-12-01	12	1000	9.1/1.0	1.0	62K1787	1.28 1.21
● 9081-05-00	5	500	3.75/0.4	1.0	36K3855	2.70 2.56
● 9081-05-10*	5	500	3.75	1.0	35K3117	2.82 2.67
● 9081-12-00	12	1000	9.1/1.0	1.0	35K3118	1.40 1.33
● 9081-12-40	12	1000	9.1/1.0	1.0	35K3119	1.55 1.47
● 9081-24-00	24	2000	18/2.0	1.0	36K3856	2.97 2.81
● 9081-24-10*	24	2000	18/2.0	1.0	35K3120	1.55 1.47
● 9091-05-00	5	500	3.75/0.4	1.5	92F3372	3.34 3.16
● 9091-05-01	5	500	3.75/0.4	1.5	04C5189	3.46 3.28
● 9091-0511*	5	500	3.75/0.4	1.5	90B4628	5.93 5.62
● 9091-12-01*	12	1000	9.0/1.0	1.5	96B2987	3.24 3.07

DPST

● 9092-05-10	5	375	3.75/0.4	1.2	54K3728	10.20 9.66
● 9092-05-11	5	375	3.75/0.4	1.2	54K3729	10.34 9.79
● 9092-12-10	12	750	9.0/1.0	1.2	54K3730	10.25 9.70
● 9092-12-11	12	750	9.0/1.0	1.2	54K3731	10.37 9.82

* Magnetic shield (3690)

MICRO-MINIATURE MOLDED SIP RELAYS



▶ CONTINUED ▶

REED RELAYS

MICRO-MINIATURE MOLDED SIP RELAYS (CONT.)

Series	Outside Package Dimensions in inches (mm)
9011	.400(10.16)L x .150(3.81)W x .265(6.73)H
9012	.400(10.16)L x .150(3.81)W x .400(10.16)H
9117	.275(6.85)L x .150(3.81)W x .385(9.77)H

- Hermetically sealed contacts for long life
- Magnetic shielding reduces interaction
- Optional coil suppression diode protects coil drive circuits
- High-speed switching
- High insulation resistance: 10¹²Ω Minimum (10¹³Ω Typical)
- Molded thermoset body on integral lead frame design

Operating temperature: -20°C to +85°C. UL/cUL listed; File No. E67117.

3W 4-PIN SIP

Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Switching Voltage (VDC)	Switching Current (A)	Carry Current (A)	Stock No.	Price Each	
							1-9	10-49
9011-05-10	5	500	100	0.25	0.5	31C8189	6.13	5.85
9011-05-11	5	500	100	0.25	0.5	39C3312	6.47	6.18
9011-12-10	12	750	100	0.25	0.5	31C8190	6.55	6.25
9011-12-11	12	750	100	0.25	0.5	39C3314	6.76	6.46

10W 4-PIN SIP

Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Switching Voltage (VDC)	Switching Current (A)	Carry Current (A)	Stock No.	Price Each	
							1-9	10-49
9012-05-10	5	500	200	0.50	1.5	35K3115	5.10	4.87
9012-05-11	5	500	200	0.50	1.5	39C5427	5.31	5.07
9012-12-10	12	750	200	0.50	1.5	35K3116	5.36	5.12
9012-12-11	12	750	200	0.50	1.5	36K7758	5.57	5.32

3W 4-PIN SIP (NARROW PACKAGE)

Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Switching Voltage (VDC)	Switching Current (A)	Carry Current (A)	Stock No.	Price Each	
							1-9	10-49
9117-05-10	5	400	100	0.25	0.5	21K5520	10.82	10.33
9117-05-11	5	400	100	0.25	0.5	20J6550	11.46	10.94

(68327)

SURFACE-MOUNT REED RELAYS



Gull Wing

J-Lead

- SPST-NO relay for low-level signal switching
- Fitted with a coaxial shield for 50Ω transmission line impedance

- Provides RF and fast rise-time pulse switching up to 2.0GHz

Contact rating: 10W. Switching voltage: 200V. Carrying current: 10A. Switching current: 0.5A. Low capacitance; contact to shield is 1.1pF typical. Operating temperature: -20°C to +85°C. Outside package dimension in inches(mm): Gull wing .225(5.72)H x .700(17.78)L x .225(5.72)W, J-lead .225(5.72)H x .500(12.70)L x .225(5.72)W, Axial .225(5.72)H x .600(15.24)L x .225(5.72)W.

4-PIN J-LEAD STYLE

Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Must Operate/ Must Release Volt. (VDC)	Bulk		Tape Cut	
				Stock No.	Price Each	Stock No.	Price Each
9401-05-20	5	200	3.75/0.4	26M8428	8.63 7.30	...	...
9401-12-20	12	825	9.0/1.0	16F3694	7.56 6.38	...	...
9402-05-20*	5	200	3.75/0.4	16F3695	8.70 7.35	45J3114	5.91
9402-12-20*	12	825	9.0/1.0	16F3696	9.26 7.82	...	...

6-PIN GULL-WING STYLE

Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Must Operate/ Must Release Volt. (VDC)	Bulk		Tape Cut	
				Stock No.	Price Each	Stock No.	Price Each
9401-05-00	5	200	3.75/0.4	50F4950	8.63 7.30	...	...
9401-12-00	12	825	9.0/1.0	16F3693	8.63 7.30	...	...
9402-05-00*	5	200	3.75/0.4	50F4951	9.26 7.82	...	...
9402-12-00*	12	825	9.0/1.0	98F6606	8.82 7.45	...	...

6-PIN AXIAL STYLE

Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Must Operate/ Must Release Volt. (VDC)	Stock No.	Price Each	Stock No.	Price Each
9401-05-10	5	200	3.75/0.4	94B2609	7.56 6.38	...	...

*Coaxial Shielding. (3763)

SURFACE MOUNT REED RELAYS



- Carry current: 0.5A
- Contact power: 3 W
- High reliability, hermetically sealed contacts for long life
- High insulation resistance: 10¹² Ω minimum
- Coaxial shield for 50 Ω impedance
- 6.5 GHz bandwidth for RF and pulse switching
- External magnetic shield
- Available in axial, gull wing and J-lead configurations

Outside dimensions: 0.313" (7.94mm)W x 0.142" (3.60mm)H x 0.195" (4.95mm)D.

Type	Contacts	Coil Voltage (VDC)	Coil Resist. (Ω)	Stock No.	Price Each		
					1-24	25-49	50-249
9903-05-20	SPST-NO	5	150	60M3627	8.73	7.92	7.32

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MICROMINIATURE REED RELAYS



- Hermetically sealed contacts for long life
- Epoxy coated steel shell provides magnetic shielding
- Operating temperature: -20°C to +85°C

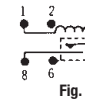


Fig. 1



Fig. 2



Fig. 3

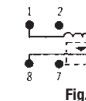


Fig. 4

Microminiature reed relays occupy 0.17" (4.32) square of PC board space and provide improved system to lock-in terminal pins. 2200-2301 and -2302 series are engineered to meet automatic test equipment specifications. Capable of 5ms must-operate time, 500 x 10⁶ life expectancy. 2200-2301 & -2302 series operate voltage: 3.6VDC; release voltage: 0.5VDC. 2204 & 2211 series (5V version) operate voltage: 3.8VDC; release voltage: 0.4VDC. 2204 & 2211 series (12V version) operate voltage: 9.0VDC; release voltage: 1.0VDC. Outside package dimensions in inches: .810L x .210W x .225H.

COAXIAL SHIELD

Mfg. Part No.	Fig.	Contacts	Coil Voltage (VDC)	Coil Resist. (Ω)	Contact Power (W)	Stock No.	Price Each		
							1-9	10-49	50-99
2200-2302	1	SPST	5	150	10	36K3835	7.76	7.35	7.01
2204-05-421	2	SPST	5	370	10	62K0526	7.23	6.84	6.53

ELECTROSTATIC SHIELD

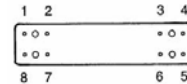
2200-2301	4	SPST	5	150	10	50F4926	7.58	7.18	6.85
2204-05-411	2	SPST	5	370	10	62K0525	7.06	6.69	6.38
2204-12-311	2	SPST	12	1500	10	62K0528	7.19	6.81	6.49

UNSHIELDED

2204-05-401	2	SPST	5	370	10	62K0524	6.86	6.49	6.19
2204-12-301	2	SPST	12	1500	10	65K8570	6.98	6.61	6.31
2211 05 301	3	SPDT	5	230	3	67K1586	11.84	11.22	10.70
2211-12-201	3	SPDT	12	1500	3	36K2112	17.10	16.19	15.45
2211-12-301	3	SPDT	12	1500	3	36K2113	12.07	11.43	10.91

(3696)

MULTIPOLE MICROMINIATURE REED RELAYS



2300 series relays occupy 0.17" (4.32) of PC board space – yet their additional height allows for SPDT, 3PST and DPDT. Operating temperature: -20°C to +85°C. Carrying current: 1.5A for 2332, 2333, and 2341 series; 0.5A for 2342 series. Switching current: 0.5A for 2332, 2333, and 2341 series; 0.25A for series 2342. Must operate/Must release voltages: 3.8/0.4VDC for 5V relays; 9.0/1.0VDC for 12V relays. Outside package dimensions in inches(mm): .810(20.57)L x .210(5.30)W x .370(9.40)H. Contacts are hermetically sealed. Relays with electrostatic shield also available; specify suffix -010 in mfg. part no.; go online or call.

UNSHIELDED

Mfg. Part No.	Contacts	Coil Voltage (VDC)	Coil Resist. (Ω)	Switching Voltage (VDC)	Contact Power (W)	Stock No.	Price Each	
							1-9	10-49
2341-05-000	SPDT	5	230	200	10	62K0569	9.98	9.41
2341-12-000	SPDT	12	1000	200	10	95F1437	9.66	9.11
2332-05-000	DPST-NC	5	175	200	10	62K0562	7.17	6.76
2332-12-000	DPST-NC	12	1000	200	10	62K0564	7.17	6.76
2342-05-000	DPDT	5	175	100	3	64K1822	13.65	12.87
2342-12-000	DPDT	12	1000	100	3	95F1439	12.77	12.04
2333-05-000	3PST-NO	5	175	200	10	62K0565	8.68	8.19
2333-12-000	3PST-NO	12	1000	200	10	62K0566	8.93	8.42

COAXIAL SHIELD

2341-05-020	SPDT	5	230	200	10	90B3370	10.38	9.79
2341-12-020	SPDT	12	1000	200	10	98B2571	9.91	9.34
2332-12-020	DPST-NC	12	1000	200	10	67K1628	7.11	6.70

ELECTROSTATIC SHIELD

2341-12-010	SPDT	12	1000	200	10	62K0570	10.17	9.59
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Current Order Status & History

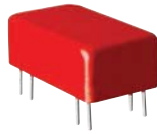
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(148881)

REED RELAYS

MICROMINIATURE REED RELAYS

- 0.20" board space
- Hermetically sealed contacts
- Epoxy coated steel shell for magnetic shielding
- Insulation resistance up to $10^{12}\Omega$
- Contact power: 3W



5V relays have 3.8VDC must operate voltage, 0.4VDC must release voltage. 12V relays have 9.0VDC must operate voltage, 1.0VDC must release voltage. **2904 series:** switching voltage: 200V, carrying current: 1.5A. **2911 series:** switching voltage: 150V, carrying current: 1.0A. Operating temperature: -20°C to +85°C. Outsided package dimensions in inches: .820L x .280W x .280H. Leads extend .125".

UNSHIELDED

Mfg. Part No.	Contacts	Coil Voltage (VDC)	Coil Resist. (Ω)	Stock No.	Price Each		
					1-9	10-49	50-99
● 2904-12-301	SPST-NO	12	1500	62K0656	7.42	6.99	6.68
● 2911-05-300	SPDT	5	230	50F4952	10.50	9.90	9.45
● 2911-05-301	SPDT	5	370	62K0659	11.39	10.74	10.25
● 2911-12-201	SPDT	12	1500	67K1688	15.29	14.42	13.76

COAXIAL SHIELD

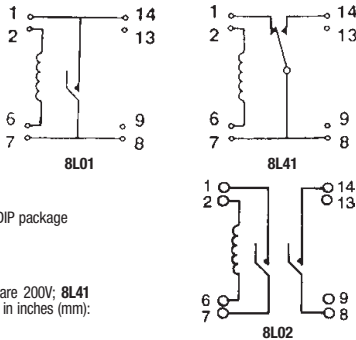
● 2911-05-321	SPDT	5	370	62K0661	11.87	11.19	10.68
● 2911-12-321	SPDT	12	1500	67K1689	12.02	11.33	10.81
● 2911-12-221	SPDT	12	1500	62K0662	13.93	13.14	12.54

ELECTROSTATIC SHIELD

● 2904-12-311	SPST-NO	12	1500	62K0657	7.63	7.19	6.86
● 2911-05-311	SPDT	5	1500	62K0660	11.58	10.91	10.42
● 2911-12-311	SPDT	12	1500	62K0664	11.70	11.03	10.53

(3667)

SPARTAN DIP REED RELAYS



- Utilize industry standard 14-pin molded DIP package
- Operating temp.: -20°C to +85°C

Switching voltages: **8L01** and **8L02 series** are 200V; **8L41 series** is 100V. Outside package dimensions in inches (mm): 0.750 (19.05)L x 0.260 (6.60)H.

ELECTROSTATIC SHIELD—W/COIL SUPPRESSION DIODE

Mfg. Part No.	Contacts	Coil Voltage (VDC)	Coil Resist. (Ω)	Contact Power (W)	Stock No.	Price Each		
						1-9	10-49	50-99
● 8L01-05-111	SPST	5	500	10	62K1261	4.35	3.67	
● 8L01-12-111	SPST	12	500	10	62K1263	2.88	2.43	
● 8L01-24-111	SPST	24	2150	10	62K1267	3.12	2.63	
● 8L41-05-111	SPDT	5	200	3	65K1146	8.08	6.82	
● 8L02-05-11	DPST	5	200	10	62K1270	6.19	5.23	
● 8L02-12-11	DPST	12	500	10	62K1274	6.19	5.23	
● 8L02-24-11	DPST	24	2000	10	62K1278	4.35	3.67	

ELECTROSTATIC SHIELD—NO DIODE

● 8L01-05-101	SPST	5	500	10	31C0646	4.04	3.41	
● 8L01-12-101	SPST	12	500	10	62K1262	4.04	3.41	
● 8L01-24-101	SPST	24	2150	10	62K1266	2.88	2.43	
● 8L41-05-101	SPDT	5	200	3	65K1145	5.54	4.69	
● 8L02-05-10	DPST	5	200	10	62K1269	3.66	3.10	
● 8L02-12-10	DPST	12	500	10	62K1273	3.90	3.30	
● 8L02-24-10	DPST	24	2000	10	62K1277	6.19	5.23	

UNSHIELDED—W/COIL SUPPRESSION DIODE

● 8L01-05-011	SPST	5	500	10	62K1260	4.04	3.41	
● 8L01-12-011	SPST-NO	12	500	10	97C8524	4.04	3.41	
● 8L01-24-011	SPST	24	2150	10	62K1265	2.87	2.42	
● 8L41-05-011	SPDT	5	100	3	65K1144	6.25	5.28	
● 8L41-12-011	SPDT	12	500	3	65K1148	5.54	4.69	
● 8L41-24-011	SPDT	24	2000	3	83F4356	5.75	4.86	
● 8L02-05-01	DPST	5	200	10	62K1268	3.66	3.10	
● 8L02-12-01	DPST-NC	12	500	10	62K1272	5.89	4.97	
● 8L02-24-01	DPST	24	2000	10	62K1276	6.19	5.23	

UNSHIELDED—NO DIODE

● 8L01-05-001	SPST	5	500	10	62K1259	3.73	3.15	
● 8L01-12-001	SPST	12	500	10	63K8478	3.73	3.15	

CONTINUED

SPARTAN DIP REED RELAYS (CONT.)

UNSHIELDED—NO DIODE

Mfg. Part No.	Contacts	Coil Voltage (VDC)	Coil Resist. (Ω)	Contact Power (W)	Stock No.	Price Each	
						1-9	10-49
● 8L01-24-001	SPST-NO	24	2150	10	62K1264	4.04	3.41
● 8L41-05-001	SPDT	5	200	3	10M8504	7.49	6.33
● 8L41-12-001	SPDT	12	500	3	65K1147	7.49	6.33
● 8L41-24-001	SPDT	24	2000	3	65K1151	7.77	6.56
● 8L02-05-00	DPST	5	200	10	67K2324	5.54	4.69
● 8L02-12-00	DPST	12	500	10	62K1271	3.70	3.13
● 8L02-24-00	DPST-NC	24	2000	10	62K1275	3.90	3.30

(13155)

ULTRA-MINIATURE SURFACE MOUNT REED RELAYS



- High reliability, hermetically sealed contacts for long life
- High insulation resistance: $10^{12}\Omega$ minimum
- Coaxial shield for 50 Ω impedance
- Excellent for RF and fast rise-time pulse switching (up to 6GHz)
- External magnetic shield for reduced interaction between parts
- Contact power: 3W

Package dimensions without leads in inches (mm):

9802: .375 (9.52)L x .195 (4.95)W x H (see table)
9814 and 9852: 400 (10.16)L x .195 (4.95)W x H (see table)

Ideally suited to the needs of automated test equipment, instrumentation and telecommunications requirements. Small size plus added features allow for high density packing and make these relays ideal for designs such as high speed, high pin count VLSI testers where speed, size and performance are all needed. **9814 series** extends life ATE loads 3X more. Switching voltage: 0.5A contacts 100VDC, 0.2A contacts 30VDC.

Packaged either as bulk or tape and reel, as noted below. Tape and reel part numbers have "TR" suffix. Full reel (uncut) versions also available; go online or call.

0.5A CONTACT CARRYING CURRENT—SPST

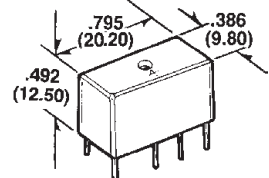
Mfg. Part No.	Coil Voltage (VDC)	Lead Style	Height (in./mm)	Bulk		Tape Cut	
				Stock No.	Price Each	Stock No.	Price Each
● 9802-05-00	5	SMT Gullwing	0.17 (4.31)	16F3689	6.87	20M6133	8.14
● 9802-05-20	5	SMT J-Lead	0.19 (4.82)	92F3367	7.32	45J3116	7.69
● 9814-03-00	3.3	SMT Gullwing	0.18 (4.57)	29H2537	6.66	...	...
● 9814-03-20	3.3	SMT J-Lead	0.2 (5.08)	83H2026	6.66	...	...
● 9814-05-00	5	SMT Gullwing	0.18 (4.57)	29H2538	6.66	...	...
● 9814-05-20	5	SMT J-Lead	0.2 (5.08)	83H2028	6.66	45J3117	8.55

0.2A CONTACT CARRYING CURRENT—SPDT

● 9852-03-10	3.3	SMT Axial	0.195 (4.95)	83H2029	33.59	...	...
● 9852-03-20	3.3	SMT J-Lead	0.22 (5.58)	83H2030	33.59	...	...
● 9852-05-00	5	SMT Gullwing	0.21 (5.33)	84C9955	33.59	...	...
● 9852-05-10	5	SMT Axial	0.195 (4.95)	83H2031	33.59	...	...
● 9852-05-20	5	SMT J-Lead	0.22 (5.58)	46M4523	34.47	45J3118	33.82

(3663)

16-PIN DIP RELAY



LM44 series have contact ratings of 60VAC switching power, 150VDC switching voltage, 2.0A switching current. Operate time: 6ms. Non-polarized relay. FCC 68 qualified.

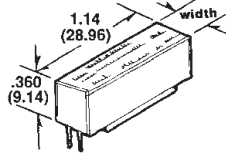
Mfg. Part No.	Contacts	Coil Voltage (VDC)	Coil Resist. (Ω)	Stock No.	Price Each		
					1-24	25-49	50-99
● LM44D00	DPDT	12	960	46F180	2.66	2.41	2.07

(3629)

DRY REED RELAYS



MRB series units feature 1 x 0.1" (25.40 x 2.54) grid and ruthenium contacts rated 10VA switching power, 200VDC or peak AC switching voltage, and 0.5A switching current. UL recognized, CSA certified. Other contact arrangements available, go online or call.



Mfg. Part No.	Contacts	Coil Volt. (VDC)	Coil Resist. (Ω)	Width	Stock No.	Price Each	
						1-24	25-49
● MRB1A05	SPST	5	225	0.365" (9.27)	65F1401	2.70	2.52
● MRB1A12	SPST	12	1400	0.365" (9.27)	74K2463	2.70	2.52
● MRB1A24	SPST	24	4340	0.365" (9.27)	65F1404	2.93	2.74
● MRB2A12	DPST	12	730	0.465" (11.81)	74K2464	4.44	4.15
● MRB2A24	DPST	24	4340	0.465" (11.81)	74K5413	4.67	4.37

(3827)

REED RELAYS (CONT.)

2-2-2 SIL PACKAGE

Mfg. Part No.	Fig.	Contacts	Coil		Power (W)	Carry Current (A)	Diode	Stock No.	Price Each	
			VDC	Res. (Ω)					1-9	10-24
● HE3321C2400	4	SPDT-C/O	24	2000	5	1.5	No	10M5192	3.32	3.04
● HE3321A0400	5	SPST-NO	5	500	10	1.2	No	28F2010	1.79	1.64
● HE3321A1200	5	SPST-NO	12	500	10	1.2	No	28F2011	1.92	1.76
● HE3321A2400	5	SPST-NO	24	2000	10	1.2	No	28F2012	1.60	1.46
● HE3351A1200†	5	SPST-NO	12	500	10	1.5	No	05M4137	1.94	1.78

2-4-2 SIL PACKAGE

● HE3621A0500	6	SPST-NO	5	500	10	1.2	No	87F1417	1.60	1.46
● HE3621A0510	6	SPST-NO	5	500	10	1.2	Yes	05M4138	1.66	1.52
● HE3621A1210	6	SPST-NO	12	1000	10	1.2	Yes	05M4139	1.84	1.68
● HE3621A2410	6	SPST-NO	24	2150	10	1.2	Yes	50F7993	1.36	1.24

* Coil Diode and E.S. Shield
† Contacts are SPST High Voltage (3280)

REED RELAYS

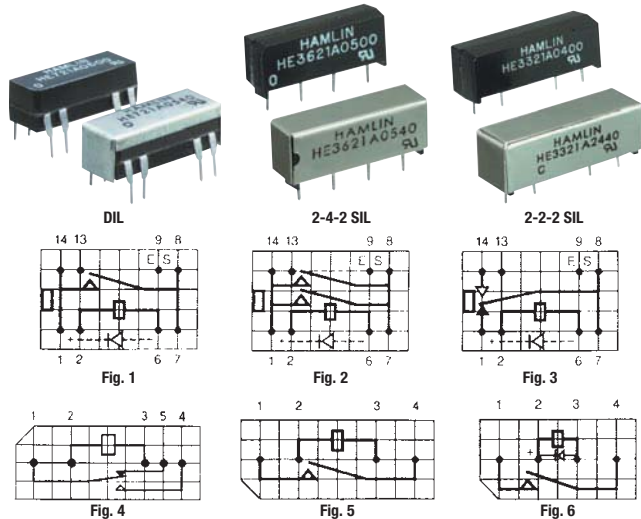


HAMLIN



Tyco Electronics

Just Added



Relays are molded construction and compatible with automatic insertion and board washing. All contacts are run-in one million operations prior to testing. Operating temperature: -40°C to +85°C. Immune to 50G shock and 20G vibration. 10-2000Hz. Maximum contact resistance: 200 milliohms. Other voltages are also available. 721, 3321, and 3621 series reed relays are also available in a form B (normally closed) configuration in both 5-volt and 12-volt coil versions. Form B 24-volt coil not available on 3621 series. All of the 721, 3321 and 3621 series reed relays are available with an external magnetic shield; go online or call.

DIL PACKAGE

Mfg. Part No.	Fig.	Contacts	Coil		Power (W)	Carry Current (A)	Diode	Stock No.	Price Each	
			VDC	Res. (Ω)					1-9	10-24
● HE721A0500	1	SPST-NO	5	500	10	1.2	No	28F2022	1.60	1.46
● HE721A0510	1	SPST-NO	5	500	10	1.2	Yes	44F7456	1.75	1.60
● HE721A1200	1	SPST-NO	12	1000	10	1.2	No	28F2023	1.64	1.50
● HE721A1210	1	SPST-NO	12	1000	10	1.2	Yes	44F7457	1.79	1.64
● HE721A2400	1	SPST-NO	24	2150	10	1.2	No	05M4140	1.31	1.20
● HE721A2410	1	SPST-NO	24	2150	10	1.2	Yes	46F3897	1.44	1.32
● HE722A0500	2	SPST-NO	5	200	10	1.2	No	44F7461	3.10	2.84
● HE722A0510	2	SPST-NO	5	200	10	1.2	Yes	44F7462	3.25	2.98
● HE722A1200	2	SPST-NO	12	500	10	1.2	No	44F7463	3.17	2.90
● HE722A1210	2	SPST-NO	12	500	10	1.2	Yes	44F7464	3.32	3.04
● HE722A2400	2	SPST-NO	24	2150	10	1.2	No	05M4145	2.42	2.22
● HE722A2410	2	SPST-NO	24	2150	10	1.2	Yes	44F7466	2.53	2.32
● HE721C0500	3	SPDT	5	200	5	1.5	No	05M4141	3.93	3.60
● HE721C0510	3	SPDT	5	200	5	1.5	Yes	10M5193	4.08	3.74
● HE721C0530*	3	SPDT	5	200	5	1.5	Yes	05M4142	4.71	4.32
● HE721C1200	3	SPDT	12	500	5	1.5	No	05M4143	3.97	3.64
● HE721C1210	3	SPDT	12	500	5	1.5	Yes	44F7459	4.12	3.78
● HE721C2400	3	SPDT	24	2000	5	1.5	No	05M4144	3.03	2.78
● HE721C2410	3	SPDT	24	2000	5	1.5	Yes	44F7460	3.14	2.88
● HE721E2400	3	SPDT	24	2000	5	1.5	No	93B3620	5.76	4.94

2-2-2 SIL PACKAGE

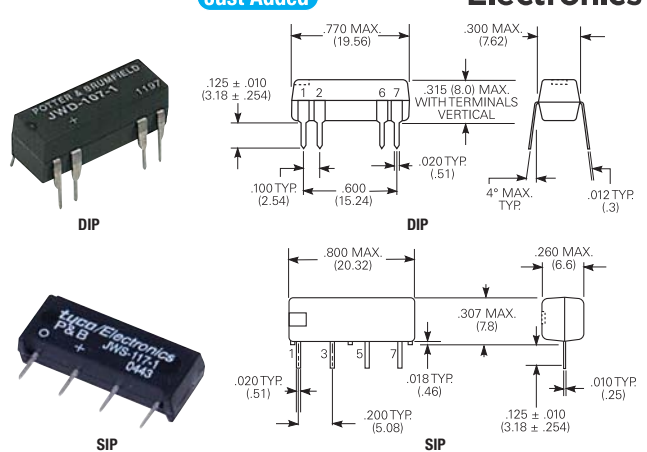
● HE3321C0500	4	SPDT-C/O	5	125	5	1.5	No	05M4136	4.12	3.78
● HE3321C1200	4	SPDT-C/O	12	500	5	1.5	No	46F3928	4.57	4.22

➔ CONTINUED ➔

P&B DIP AND SIP DRY REED RELAYS



Tyco Electronics



JWD series DIP units and JWS series SIP units are designed to accommodate automatic component insertion and permit high density packaging of components on printed circuit boards. Contact material: ruthenium. Mounted height is only 0.315" (8.00), allowing PC board spacing on 0.500" (12.70) centers. Molded epoxy package with terminals on 0.100" (2.54) centers compatible with automatic wave soldering. Can be immersion or spray cleaned. Operating temperature range: -35°C to +85°C.

DIP SPST-NO, 10W, 0.5A, 100VDC

Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Max. Pick-Up Voltage (VDC)	Diode	Stock No.	Price Each	
						1-24	25-49
● JWD-107-1	6	500	3.8	N	81F9286	4.40	4.00
● JWD-107-5	6	500	3.8	Y	81F9287	5.25	4.78
● JWD-107-3	12	1200	9.6	N	81F9288	4.00	3.65
● JWD-107-7	12	1200	9.6	Y	81F9289	5.20	4.71
● JWD-171-5	24	2150	19.2	N	81F9290	7.73	6.77

SIP SPST-NO, 10W 0.5A, 100VDC

● JWS-117-1	5	500	3.8	N	46F3511	4.85	4.33
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DIP DPST-NO, 10W, 0.5A, 100VDC

● JWD-171-21	6	200	3.8	N	81F9292	5.23	4.89
● JWD-171-25	6	200	3.8	Y	81F9293	6.68	6.13
● JWD-171-23	12	500	9.6	N	81F9294	6.21	5.43
● JWD-171-27	12	500	9.6	Y	81F9295	6.96	6.09
● JWD-171-24	24	2200	19.2	N	81F9296	5.88	5.49
● JWD-171-28	24	2200	19.2	Y	81F9297	6.63	6.06

DIP SPST-NC, 10W, 0.5A, 100VDC

● JWD-171-17	6	500	3.8	Y	81F9299	6.16	5.65
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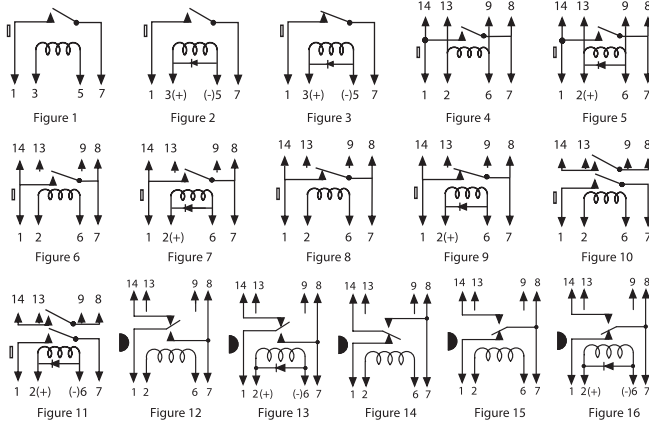
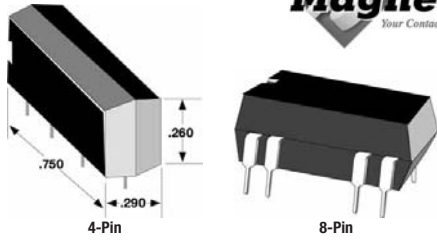
DIP SPDT, 3W, 0.5A, 28VDC

● JWD-172-1	6	200	3.8	N	81F9304	7.77	7.13
● JWD-172-5	6	200	3.8	Y	81F9305	7.77	7.13
● JWD-172-159	6	200	3.8	Y	90F1084	10.69	9.72
● JWD-172-3	12	500	9.6	N	81F9306	8.61	7.89
● JWD-172-7	12	500	9.6	Y	81F9307	9.11	8.35
● JWD-172-162	24	2150	19.2	Y	90F1086	8.01	7.47
● JWD-172-4	24	2200	19.2	N	81F9308	9.49	8.30
● JWD-172-8	24	2200	19.2	Y	81F9309	9.48	8.30

(3287)

REED RELAYS

SIP AND DIP DRY REED RELAYS



- 8-Pin DIP or 4-Pin SIP Packages
- Contact rating: 0.5 A, except for W172: 0.25A
- Single, Double and 4-pole contact configurations
- Coil voltage: 5-24V

Contact resistance: 200 milliohms typical. Insulation resistance: 10¹⁰ ohms @ 100VDC minimum. Dielectric withstanding voltage between contacts 200VDC minimum, between coil and contacts 1000VDC minimum. Shock: 100 G's, 11 ms @ 1/2 sine wave. Vibration: 20 G's, 0 - 5000Hz operating. Ambient temperature: -15°C to 85°C.

Specifications	SPST-NO, SPST-NC	DPST-NO	SPDT	DPDT
Max. Switching Rating				
Voltage DC	100	100	100	100
Current (A)	0.5	0.5	0.25	0.5
Max. Carry Current (A)	1.5	1.5	0.5	1.0

8-PIN DIP PACKAGE-W/CLAMPING DIODE

Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Contacts	Fig.	Stock No.	Price Each	
						1-24	25-49
W107DIP-5	5	500	SPST-NO	5	10M6254	2.79	2.49
W107DIP-7	12	1000	SPST-NO	5	10M6255	5.04	4.48
W171DIP-25	5	200	DPST-NO	11	10M6270	4.69	4.20
W171DIP-17	5	500	SPST-NC	9	10M6264	6.25	5.94
W171DIP-7	5	500	SPST-NO	7	10M6275	2.75	2.47
W171DIP-27	12	1000	DPST-NO	11	10M6271	6.14	5.62
W171DIP-10	24	2200	SPST-NO	7	16M1407	4.86	4.30
W171DIP-28	24	2200	DPST-NO	11	10M6272	6.05	5.74
W172DIP-147	5	200	SPDT	2	10M6278	6.05	5.41
W172DIP-5	5	200	SPDT	13	10M6290	8.44	7.67
W172DIP-7	12	500	SPDT	13	10M6291	6.18	5.84
W172DIP-149	12	1000	SPDT	16	10M6279	6.90	6.67
W172DIP-8	24	2200	SPDT	13	10M6292	8.41	7.79
W172DIP-150	24	3200	SPDT	16	10M6280	8.33	7.88

8-PIN DIP PACKAGE-NO DIODE

Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Contacts	Fig.	Stock No.	Price Each	
						1-24	25-49
W107DIP-1	5	500	SPST-NO	4	10M6251	7.83	7.45
W107DIP-3	12	1200	SPST-NO	4	10M6252	4.02	3.81
W171DIP-21	5	200	DPST-NO	10	10M6267	5.95	5.63
W171DIP-2	5	500	SPST-NO	6	10M6266	3.33	3.12
W171DIP-14	12	1200	SPST-NC	8	10M6263	7.01	6.64
W172DIP-1	5	200	SPDT	12	10M6277	6.06	5.41
W172DIP-31	5	200	SPDT	14	10M6286	7.28	6.82
W172DIP-141	5	200	SPDT	15	87F233	12.13	11.45
W172DIP-3	12	500	SPDT	12	10M6285	7.95	7.54
W172DIP-33	12	500	SPDT	14	10M6287	7.60	7.11

4-PIN SIP PACKAGE-W/CLAMPING DIODE

Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Contacts	Fig.	Stock No.	1-24	25-49
W117SIP-6	5	500	SPST-NO	2	10M6260	3.18	2.82
W117SIP-18	5	500	SPST-NC	3	10M6258	3.45	3.27

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SIP AND DIP DRY REED RELAYS (CONT.)

4-PIN SIP PACKAGE-NO DIODE

Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Contacts	Fig.	Stock No.	Price Each	
						1-24	25-49
W117SIP-1	5	500	SPST-NO	1	10M6257	3.58	3.34
W117SIP-3	12	1000	SPST-NO	1	10M6259	6.37	6.01

* With internal clamping diode (4062)

HIGH-VOLTAGE RELAYS

- 102V switches up to 5KV / 10mA
- 102HV switches up to 10KV / 5mA
- Fully enclosed
- Ideal for medical or hipot applications
- Tungsten contacts
- Dielectric 6000 Volts (V) / 12000 Volts (HV)

102V series = 50VA max switching load, 10mA max current, 5000 max voltage.
102 HV series= 50VA max switching load, 5mA max current, 10000 max voltage.

5KV SWITCHING

Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Stock No.	Price Each			
				1-5	6-14	15-24	25-49
W102VX-49	6	70	28F1380	143.64	140.60	136.80	133.00
W102VX-50	12	250	56F1031	143.64	140.60	136.80	133.00
W102VX-51	24	1000	56F1032	143.64	140.60	136.80	133.00

10KV SWITCHING

Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Stock No.	1-5	6-14	15-24	25-49
W102HVX-3	24	400	56F292	163.30	159.84	155.52	151.20

HIGH-VOLTAGE SIP REED RELAY



- High voltage switching up to 1000V
- High dielectric strength (2000VDC)
- High insulation resistance: 10¹¹Ω min.
- High reliability, hermetically sealed contacts for long life

- High-speed switching compared to electromechanical relay
- Molded thermostat body on integral lead frame design
- Optional coil suppression diode - protects coil drive circuit
- Magnetic shield - reduces interaction

9104 series relays are 4-pin molded SIP. SPST-NO contacts. Switching current: 0.5A. Carry current: 1.3A. Contact power: 10W. Operating temperature: -20°C to 85°C. Outside package dimensions in inches (mm): .950(24.13)L x .245(6.22)W x .320(8.13)H.

NO DIODE

Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Must Operate/ Must Release Voltage (VDC)	Stock No.	Price Each			
					1-9	10-49	50-99	100+
9104-05-10	5	175	3.75/0.5	27K4212	8.37	7.91	7.45	7.16
9104-12-10	12	500	9.0/1.0	62K2056	8.41	7.95	7.49	7.19

w/COIL SUPPRESSION DIODE

Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Must Operate/ Must Release Voltage (VDC)	Stock No.	1-9	10-49	50-99	100+
9104-05-11	5	175	3.75/0.5	62K2055	8.49	8.02	7.56	7.26
9104-12-11	12	500	9.0/1.0	27K4215	8.51	8.04	7.58	7.28

S SERIES HIGH-VOLTAGE REED RELAYS



- Designed specifically for high voltage
- Rhodium contacts for low resistance
- Contact form: SPST-NO
- 5kV isolation between contacts
- Max. switching power: 10W
- Max. switching voltage: 20V
- Max. switching current: 0.5A
- Max. carry current: 2A



Just Added

The S series was developed for the high voltage ATE market, where printed circuit board (PCB) space is at a premium, the S series high voltage reed relay offers a 3 or 5* kV isolation performance in a 30mm size package. With low contact resistance, the S series is suitable for many high voltage applications at DC and low frequency, where performance and reliability are paramount.

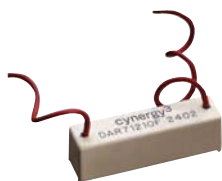
Mfg. Part No.	Coil Voltage (VDC)	Coil Resist. (Ω)	Must Operate (V)	Must Release (V)	Stock No.	Price Each
						1-4
SAR90505	5	140	3.7	0.5	89C7905	22.06
SAR91205	12	600	9	125	89C7906	22.06
SAR92405	24	1000	20	3	89C7907	22.06

(13297)

REED RELAYS • SOLID-STATE PCB RELAYS

HIGH-VOLTAGE REED RELAYS

Just Added



Flying Leads

- 10kV or 15kV isolation
- Low contact resistance
- Switching power up to 50W 7kV



PC Board Mount

- PC board mount or Flying leads
- Contact material: Tungsten
- Excellent AC characteristics



PC Board Mount Spade Terminals

D series relay is suitable for high reliability applications such as cardiac defibrillators, test equipment and high voltage power supplies. Low resistance rhodium contact option available, go online or call.

10kV ISOLATION VOLTAGE - FLYING LEADS

Mfg. Part No.	Contacts	Coil Voltage (VDC)	Coil Resist. (ms.Ω)	Stock No.	Price Each			
					1-4	5-14	15-24	25-49
DBT71210F	SPST-NC	12	240	89C4349	35.86	34.19	33.08	31.42
DAT71210F	SPST-NO	12	150	89C4323	35.10	33.47	32.39	30.76
DAT72410F	SPST-NO	24	780	89C4329	35.10	33.47	32.39	30.76

15kV ISOLATION VOLTAGE - FLYING LEADS

DAT71215F	SPST-NO	12	95	89C4326	48.15	45.92	44.43	42.20
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10kV ISOLATION VOLTAGE - PC BOARD MOUNT

DBT70510	SPST-NC	5	38	91F9749	34.57	32.97	31.90	30.30
DBR71210	SPST-NC	12	240	91F5754	32.48	30.97	29.97	28.46
DBT72410	SPST-NC	24	925	91F5756	34.57	32.97	31.90	30.30
DAT70510	SPST-NO	5	28	18M2003	27.46	26.18	25.33	24.06
DAR71210	SPST-NO	12	50	92F4680	26.47	25.24	24.42	23.19
DAT71210	SPST-NO	12	150	92F4682	28.60	27.27	26.39	25.06
DAR72410	SPST-NO	24	50	91F9752	29.19	24.28	22.51	20.87
DAT72410	SPST-NO	24	780	91F9751	28.60	27.27	26.39	25.06

15kV ISOLATION VOLTAGE - PC BOARD MOUNT

DAT70515	SPST-NO	5	16	99B1221	41.66	39.72	38.44	36.50
DAT72415	SPST-NO	24	350	99B1225	41.66	39.72	38.44	36.50

10kV ISOLATION VOLTAGE - PC BOARD MOUNT SPADE TERMINALS

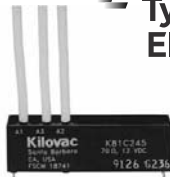
DBT71210S	SPST-NC	12	240	50M7793	45.33	37.70	34.95	32.41
DBT72410S	SPST-NC	24	240	50M7794	45.33	37.70	34.95	32.41
DAT71210S	SPST-NO	12	150	50M7785	38.72	32.20	29.85	27.68
DAT72410S	SPST-NO	24	150	50M7787	38.72	32.20	29.85	27.68

(12931)

KILOVAC 5A - 30A POWER RELAYS



K81B



K81C

- Power switch: make & break
- Max isolation voltage: 12-10,000VDC
- Vacuum-sealed contacts for low-current load switching

K81 series relays switch up to 10kV. Carry current varies by model. Mfg. part no. ending in "57" is a panel mount relay with stud terminals; "35" designates PC board mount with only PC terminals; and "45" is PC board mount with flying leads for load connections.

Mfg. Part No.	Max. Carry Current (A)	Contact Arrangement	Coil Voltage (VDC)	Stock No.	Price Each		
					1-2	3-4	5+
K81A235	5	SPST-NO	12	09J3900	341.18	313.80	292.74
K81B235	5	SPST-NC	12	09J3902	234.64	215.82	201.33
K81C235	5	SPDT	12	09J3904	363.90	334.70	312.24
K81C335	10	SPST-NO	26.5	09J3906	468.54	430.94	402.02
K81AB57	30	SPST-NO	26.5	09J3899	319.14	293.53	273.83
K81A345	30	SPST-NO	26.5	09J3901	331.23	304.65	284.20
K81B245	30	SPST-NC	26.5	09J3903	285.56	263.59	244.77
K81C245	30	SPDT	12	09J3905	349.71	322.81	299.75

(83667)

10A PC BOARD/DIN RAIL DC SOLID-STATE RELAYS



Just Added



PC Board Mount

- Control voltage 3-32VDC
- MOSFET output
- Low on-state impedance (.20Ω) for reduced power dissipation



DIN Rail Mount

- Low off-state leakage current (100µA dc)
- Standard digital I/O
- Dimensions: 1.70 (43.1)L x 1.00 (25.4)H x .300 (7.6)W

PC BOARD MOUNT RELAYS DC OUTPUT

Mfg. Part No.	Load Voltage (VDC)	Control Voltage (VDC)	Load Current	Stock No.	Price Each			
					1-14	15-24	25-49	50-99
CMX60D10	0-60	3-10	0-10	79K4323	33.23	31.72	30.40	29.08
CMX60D5	0-60	3-10	0-5	79K4324	31.51	30.00	28.79	27.57
CMX100D6	0-100	3-10	0-6	79K4322	33.23	31.72	30.40	29.08
CMX200D3	0-200	3-10	0-3	99B1189	34.90	33.32	31.93	30.54

DIN RAIL MOUNT RELAYS DC OUTPUT

MS11-CMX60D5	0-60	5-10	0-5	97B2379	45.89	43.80	41.98	40.15
MS11-CMX60D10	0-60	5-10	0-10	91C4579	49.90	47.63	45.65	43.66
MS11-CMX100D6	0-100	5-10	0-6	69H7454	52.12	49.75	47.68	45.60

DIN RAIL MOUNT RELAYS AC OUTPUT

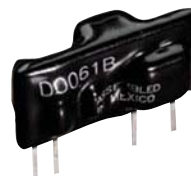
Mfg. Part No.	Load Voltage (VAC)	Control Voltage (VDC)	Load Current	Stock No.	Price Each			
					1-14	15-24	25-49	50-99
MS11-CX240D5	12-280	5-15	0.6-5	07C7774	31.05	29.64	28.40	27.17
MS11-CXE240D5	12-280	15-32	0.6-5	99B1388	31.05	29.64	28.40	27.17
MS11-CX240A5	12-280	90-140*	0.6-5	54M5686	32.49	31.02	29.72	28.43

* Vrms (3652)

1-3A DC OUTPUT MINI-SIP RELAYS



- Current rating up to 3A @ 60VDC
- FET or bi-polar transistor output
- Compact design for high-density mounting



Outside dimensions: .950 (24.1)L x .500 (12.7)H x .400 (10.2)W. UL recognized, CSA certified.

SPST-NO

Mfg. Part No.	Output Voltage (VDC)	Input Current (mA)	Control Voltage (VDC)	Output (ADC)	Stock No.	Price Each		
						1-14	15-24	25-49
D0061A	3-60	15	3-9	Bi-polar Transistor Rated .02-1.0	79K4337	9.02	8.61	8.25
D0061B	3-60	15	1.7-9		79K4338	9.02	8.61	8.25
D0M063	0-60	20	3-10	MOSFET 0-3.0	79K4336	17.13	16.35	15.67

SPST-NC

D0061A-B	3-60	15	3-9	Bi-polar Transistor Rated .02-1.0	06M6636	13.20	12.60	12.08
D0061B-B	3-60	15	1.7-9		06M6637	19.12	18.64	17.61

(3658)

5A PC BOARD AC SOLID-STATE RELAYS



Just Added



- Current rating up to 5a @ 480VAC
- SCR output for heavy industrial loads
- Zero-cross (resistive loads) or random-fire output (inductive/phase control loads)
- Standard digital I/O pinout
- Outside Dimensions: 1.00 (25.4)H x 1.70 (43.1)L x .300 (7.6)W

UL recognized, CSA certified, CE compliant, VDE approved.

DC CONTROL

Mfg. Part No.	Load Voltage (V _{AC})	Control Voltage (V _{DC})	Load Current (A)	Stock No.	Price Each			
					1-14	15-24	25-49	50-99
CX240D5	12-280	3-15	5	76K3916	12.10	11.55	11.06	10.58
CX240D5R	12-280	3-15	5	98F4688	12.92	12.34	11.82	11.31
CX241	12-280	4-10	1.5	76K3917	9.91	9.46	9.07	8.67

➤ CONTINUED ➤

SOLID-STATE PCB RELAYS

5A PC BOARD AC SOLID-STATE RELAYS (CONT.)

Mfg. Part No.	Load Voltage (V _{AC})	Control Voltage (V _{DC})	Load Current (A)	Stock No.	Price Each			
					1-14	15-24	25-49	50-99
● CX380D5	48-530	4-15	5	76K3918	15.44	14.74	14.12	13.51
● CXE240D5	12-280	15-32	5	79K6136	12.10	11.55	11.06	10.58
● CXE480D5	48-660	15-32	5	89C4303	16.97	16.20	15.52	14.85
● CX380D5R	48-530	4-15	5	99B1216	16.27	15.53	14.88	14.23
● CX480D5	48-660	4-15	5	12N5707	16.97	16.20	15.52	14.85
● CX480D5R	48-660	4-15	5	96B7227	18.64	17.80	17.05	16.31

AC CONTROL

Mfg. Part No.	Load Voltage (V _{AC})	Control Voltage (V _{RMS})	Load Current (A)	Stock No.	Price Each			
					1-14	15-24	25-49	50-99
● CXE240D5R	12-280	12-92	5	93F4165	12.92	12.34	11.82	11.31
● CXE240A5	12-280	18-36	5	89C4301	13.52	12.91	12.37	11.83
● CX240A5R	12-280	90-140	5	76K3915	14.35	13.70	13.13	12.56

(3654)

POWERFIN SCR AC OUTPUT RELAYS



- Integral heat sink
- Current rating up to 25A @ 480VAC (forced air)
- SCR output for heavy industrial loads
- Zero-cross (resistive loads) or random-fire output (inductive/phase-control loads)
- Control voltage 240VDC
- Load current 25A



480VAC units also available. AC control available, go online or call. UL recognized, CSA certified, VDE approved.

Mfg. Part No.	Output Voltage (V _{RMS})	One-Cycle Surge (Apk)	Switching	Stock No.	Price Each		
					1-14	15-24	25-49
● PF240D25	12-280	250	Zero Cross	79K4416	22.09	21.09	20.21
● PF240D25R	12-280	250	Random	79K4417	24.75	23.62	22.64
● PFE240D25	12-280	250	Zero Cross	79K4415	22.09	21.09	20.21
● PF480D25	48-660	250	Zero Cross	79K4418	24.64	23.52	22.54

(3653)

1-2A PC BOARD MINI SIP SOLID-STATE RELAYS



- SCR output for switching loads up to 2A @ 240VAC, or TRIAC output.
- Zero-cross (resistive loads) output
- Control voltage: 4-10VDC (15mA @ 5VDC)



Outside dimensions: .950 (24.1)L x .200 (5.1)W x .500 (12.7)H. Add "R" to mfg. part no. suffix for random-fire output. UL recognized, CSA certified.

TRIAC OUTPUT

Mfg. Part No.	Output Voltage (V _{RMS})	Load Current (A _{RMS})	One-Cycle Surge (A _{pk})	Switching	Stock No.	Price Each		
						1-14	15-24	25-49
● A0241	24-280	0.02-1.0	40	Zero-Cross	93F4155	9.97	9.51	9.12

BACK-TO-BACK SCR OUTPUT

● AS0241	12-280	0.01-1.5	30	Zero-Cross	93F4157	9.97	9.51	9.12
● AS0242	12-280	0.01-2.0	40	Zero-Cross	79K4298	12.01	11.46	10.98

(3657)

16-PIN, 1.0-1.5A DIP SOLID-STATE RELAYS



- Load current ratings up to 1.5A @ 240VAC
- Low off-state leakage current
- SCR output
- Compact design for high-density PC boards



Other models available, go online or call. UL recognized, CSA approved, CE compliant, VDE approved.

CONTROL VOLTAGE RANGE: 3.5-10VDC (15mA @ 5VDC)

Mfg. Part No.	Output Voltage (V _{RMS})	Transient Over-Voltage	Stock No.	Price Each			
				1-14	15-24	25-49	50-99
● SDV2415	12-280	600	79K4422	10.21	9.75	9.34	8.94
● DPA6119	20-280	600	79K4342	9.88	9.43	9.04	8.64
● DPA4119	20-140	400	79K4340	9.58	9.14	8.76	8.38

▶ CONTINUED ▶

16-PIN, 1.0-1.5A DIP SOLID-STATE RELAYS (CONT.)

CONTROL CURRENT RANGE: 10-35mA

Mfg. Part No.	Output Voltage (V _{RMS})	Transient Over-Voltage	Stock No.	Price Each			
				1-14	15-24	25-49	50-99
● DPA4111	20-140	400	79K4339	9.58	9.14	8.76	8.38
● DPA6111	20-280	600	79K4341	9.88	9.43	9.04	8.64

(3738)

2-3.5A PC BOARD AC SOLID-STATE RELAYS



- Current ratings up to 3.5A @ 240VAC
- Industry standard I/O pinout
- Built-in RC snubber network
- Control voltage: 3-32VDC (3mA @ 5VDC)
- Output voltage: 24-280VAC



D2W series relays feature an epoxy coated package that provides exceptional environmental protection. Outside dimensions: 1.7 (43.2)L x 0.47 (11.9)W x 1.18 (29.9)H. UL recognized, CSA certified.

Mfg. Part No.	Load Current (Arms)	One-Cycle Surge (Apk)	Stock No.	Price Each			
				1-14	15-24	25-49	50-99
● D2W202F	.06-2.0	28	80K5825	9.75	9.31	8.92	8.54
● D2W203F	.06-3.0	70	79K4343	10.32	9.85	9.44	9.03
● D2W203F-11	.06-3.5	80	79K4344	10.90	10.40	9.97	9.54

(3708)

3A AC OUTPUT PC BOARD RELAYS



- Load current ratings up to 3A @ 240VAC
- SCR output for heavy industrial loads
- Available with or without internal RC snubber network



Just Added

3.5-8VDC (20mA @ 5VDC) control. Dimensions: 1.20" (30.5)L x 0.80" (20.3)W x 0.45" (11.4)H for mfg. part nos. S3-1.45" (36.8)L x 0.80" (20.3)W x 0.70" (17.8)H for mfg. part nos. S30-. UL listed, CSA certified, CE compliant, VDE approved.

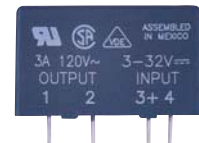
Mfg. Part No.	Load Voltage (VAC)	One-Cycle Surge (Apk)	Stock No.	Price Each			
				1-14	15-24	25-49	50-99
● S312	20-140	55	88K2000	28.11	26.83	25.72	24.60
● S3012A	20-140	55	93K7599	26.84	25.62	24.56	23.49
● S3013A	20-140	55	46F818	30.61	29.22	28.00	26.78
● S3022A	48-280	55	93K7600	29.22	27.89	26.73	25.57

(3709)

AC/DC MINI-SIP SOLID-STATE RELAYS



- AC or DC output available
- SCR or FET N.O. or N.C. outputs
- Industry standard I/O pinout
- Current rating up to 4A AC or 3A DC



Series MP1 and MP2 have zero-cross turn-on and internal snubber. Control voltage range: 3-32VDC (3mA@5VDC). Outside dimensions: 1.70 (43.1)L x 1.00 (25.4)H x .401 (10.2)W. UL recognized, CSA certified, VDE approved.

TRIAC AC SWITCH OUTPUT

Mfg. Part No.	Load Current (A _{RMS})	Output Volt. Range (V _{RMS})	Contacts	Stock No.	Price Each			
					1-14	15-24	25-49	50-99
● MP120D3	0.02-3.0	12-240	SPST-NO	79K4409	18.57	17.73	16.99	16.25
● MP240D3	0.02-3.0	24-280	SPST-NO	79K4410	18.57	17.73	16.99	16.25
● MP240D4	0.02-4.0	24-280	SPST-NO	79K4411	19.38	18.50	17.73	16.96

DC, BIPOLAR TRANSISTOR OUTPUT

● MPDCD3	0.02-3.0	3-60	SPST-NO	79K4408	20.05	19.14	18.34	17.54
● MPDCD3-B	0.02-3.0	3-60	SPST-NC	06M6638	28.64	27.16	25.95	24.87

(3656)

SOLID-STATE PCB RELAYS • SOLID-STATE PANEL-MOUNT RELAYS

PC BOARD MOUNT SOLID-STATE RELAYS



The **GAB** series of SSRs have a high current thyristor for 100 amps surge capability in an industry standard SIP package. Height: 1.0" (25.4mm)



Mfg. Part No.	Control Voltage (VDC)	Output Current	Output Voltage (VAC)	Stock No.	Price Each		
					1-24	25-49	50-99
● GA8-6B02	3-28	3A @ 40°C	24-280	20M5163	15.32	13.48	12.00
● GA8-6D05	3-28	5A @ 30°C	24-280	17M6599	18.24	16.10	14.31

SOLID-STATE RELAYS



Space-saving design allows high-density PC board applications. DC input with AC output. Zero-cross function. Load voltage: 100 - 240VAC, 50/60Hz. Output load current: 0.10 to 2A. Output surge current 30A (60Hz, 1 cycle). Switches 2A loads at 25°C. Impedance: 1k Ω , \pm 20%. Dimensions: 0.96 x 0.22 x 0.81" or 24.5 x 5.5 x 20.5mm. UL recognized and CSA certified.



7.62mm OUTPUT TERMINAL PITCH

Mfg. Part No.	Input Voltage (VDC)	Switching	Stock No.	Price Each		
				1-24	25-49	50-99
● G3MB-202P-DC5	5	Zero Cross	50B6375	5.02	4.52	4.02
● G3MB-102PL-DC5	5	Random	89C5600	3.90	3.52	3.13
● G3MB-202PL-DC5	5	Random	89C5602	4.33	3.90	3.48
● G3MB-202PL-DC12	12	Random	92B0435	4.54	4.09	3.64
● G3MB-202P-DC24	24	Zero Cross	95B1524	5.02	4.52	4.02
● G3MB-102-PL-DC24	24	Random	67K9344	3.90	3.52	3.13

5.08mm OUTPUT TERMINAL PITCH

● G3MB-202P-4-DC5	5	Zero Cross	67K9345	4.80	4.32	3.85
● G3MB-202P-4-DC12	12	Zero Cross	95B1499	4.60	4.15	3.69
● G3MB-202PEG-4-DC20MA	See Note	Zero Cross	95B1526	4.46	4.02	3.58

NOTE: For versions without input voltage specified; a current limiting resistor must be placed in series with the input. (47475)

SOLID-STATE RELAYS



Allows compact, low-cost, switching from 5 to 20A. Built-in varistor effectively absorbs external surges. Input impedance with zero cross function. Dedicated, compact aluminum PCB and power element used. Quick-connect #110 input terminals and #250 output connections. Output load: **G3NE-205T** series 5A @ 75 to 264VAC; **G3NE-205TL** series 5A @ 75 to 264VAC; and **G3NE-210T** series 10A @ 75 to 264VAC; **G3NE-220T** series 20A @ 75 to 264VAC. Dimensions: 1.9 x 1.5 x 0.45" or 47.5 x 37.5 x 11.5mm. Order optional heat sink **mfg. part no. Y92B-N50** or **Y92B-N100** separately; *go online or call*.



Mfg. Part No.	Input Voltage (VDC)	Input Impedance $\Omega \pm 20\%$	Stock No.	Price Each		
				1-24	25-49	50-99
● G3NE-205TL-US DC5	5	300k	17M6671	12.36	11.35	10.54
● G3NE-205T-US-DC12	12	600	17M6669	15.53	13.99	12.43
● G3NE-205T-US-DC24	24	1.6k	17M6670	12.96	12.15	11.61
● G3NE-210T-US-DC5	5	250	95B1383	17.07	15.37	13.66
● G3NE-210T-US-DC12	12	600	95B1388	17.07	15.37	13.66
● G3NE-210T-US-DC24	24	1.6k	17M6672	17.07	15.37	13.66
● G3NE-220T-US-DC5	5	...	95B1394	19.99	18.00	16.00
● G3NE-220T-US-DC12	12	600	17M6673	19.99	18.00	16.00

(47473)

SOLID-STATE PCB RELAYS



OPTO 22



P Series



MP Series

P series power relays provide low profile for 0.5" (12.7) center mounting on printed circuit boards. **MP** series provide small footprint. Suffix **17** in type number indicates relay uses a VDE-approved Opto coupler. All relays are UL recognized, CSA certified, CE compliant.

MP SERIES

Mfg. Part No.	Line Voltage (V)	Current (A)	Description	Stock No.	Price Each	
					1-24	25-49
● DC60MP	60 VDC	3	DC Switching	18M9067	13.44	13.14
● DC200MP	200 VDC	1	DC Switching	18M9066	18.48	18.24
● MP120D2	120 VAC	2	DC Control	18M9245	20.09	19.70
● MP120D4	120 VAC	4	DC Control	18M9246	16.17	15.96
● MP240D2	240 VAC	2	DC Control	96F1090	15.68	15.33
● MP240D4	240 VAC	4	DC Control	96F1091	17.33	17.10
● MP240D4-17	240 VAC	4	DC Control	71M0671	17.92	17.52
● MP380D4	380 VAC	4	DC Control	96F6470	17.33	17.10

P SERIES

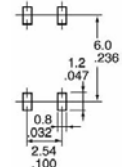
● DC60P	60 VDC	3	DC Switching	96F6443	10.92	10.62
● DC200P	200 VDC	1	DC Switching	96F6442	14.96	14.64
● P120D2	120 VAC	2	DC Control	18M9301	12.74	12.39
● P120D4	120 VAC	4	DC Control	18M9302	15.23	15.00
● P240D2	240AC	2	DC Control	96F1093	16.24	16.00
● P240D4	240AC	4	DC Control	18M9303	17.26	17.00
● IAC5P	90-140	11 mA	AC Input	18M9106	14.96	14.64
● IDC5P	10-32	25 mA	AC Input	18M9115	14.56	14.16
● OAC5P	12-140	3	AC Output	18M9266	14.56	14.16
● ODC5P	5-60	3	DC Output	18M9276	14.56	14.16

(3752)

CXR 10 RF PC BOARD RELAYS



Panasonic Electric Works Corporation of America



- C x R 10
- Super miniature 4-Pin SOP package
- Lower output capacitance or lower on resistance available
- High-speed switching (30 μ s)
- Low-level off state leakage current (10 μ A)
- SPST contacts

Typical applications include test equipment, board testers, medical equipment, and multi-point recorders. Turn-on and turn-off time is 30 μ s. Power dissipation = 75 mW (in), 300 mW (out). Operating temperature = -40°C to +85°C. Dimensions in mm (inches): 4.3,(169)W x 4.4,(173)L x 2.1,(83)H. Relays are packaged as each. For tape & reel picked from the 1-2 pin side, add suffix "X" to mfg. part no.; for tape & reel picked from the 3-4 pin side, add suffix "Z" to mfg. part no. Reel qty: 1000 pieces. For availability; *go online or call Newark*.

Mfg. Part No.	Output Cap. (pF)	ON Resist. (Ω)	Load Voltage (V)	Load Current (mA)	Forward Current (mA)	Stock No.	Price Each		
							1-24	25-49	50-99
● AQY221N1S	2.0	9.8	40	120	50	93B0655	5.66	5.20	4.62
● AQY221N2S	1.0	9.5	40	120	50	13C2728	6.69	6.15	5.46
● AQY221R2S	13.0	0.8	40	250	50	84C9172	6.52	5.99	5.32
● AQY222R1S	24.5	0.8	60	500	50	45M7093	7.45	6.84	6.08

(66472)

10-75A SOLID STATE RELAYS



Just Added



Fig. 1



Fig. 2

- Specifications:**
- Dielectric strength: 4000Vrms
 - Max. On state voltage drop: 1.6VAC
 - Max. Turn-on time: 8.3ms
 - Operating temperature: -30° to 80°C

- Features:**
- SCR or Triac outputs for 3-phase loads
 - Inputs can be AC or DC operated
 - Load currents range from 10A to 75A at 480VAC
 - Random turn-on or zero cross construction available

➤ CONTINUED ➤

SOLID-STATE PANEL-MOUNT RELAYS

10-75A SOLID STATE RELAYS (CONT.)

- Weight: 320g
- Input terminal size: M3.5
- Output terminal size: M4

TRIAC OUTPUT PHASE REVERSING RELAYS

Mfg. Part No.	Fig.	Control Input	Load Curr. (A)	Load Volt. (VAC)	Switching	Stock No.	Price Each
645RTR410-24VAC	1	24VAC	10	480	Random	08R1013	120.77
645RTZ410-24VAC	1	24VAC	10	480	Zero Cross	08R1022	58.76
645RTR425-24VAC	1	24VAC	25	480	Random	08R1016	151.24
645RTZ425-24VAC	1	24VAC	25	480	Zero Cross	08R1025	58.76
645RTR440-24VAC	1	24VAC	40	480	Random	08R1019	180.61
645RTZ440-24VAC	1	24VAC	40	480	Zero Cross	08R1028	136.00
645RTR410-4-32VDC	1	4-32VDC	10	480	Random	08R1014	76.16
645RTZ410-4-32VDC	1	4-32VDC	10	480	Zero Cross	08R1023	70.72
645RTR425-4-32VDC	1	4-32VDC	25	480	Random	08R1017	108.80
645RTZ425-4-32VDC	1	4-32VDC	25	480	Zero Cross	08R1026	104.45
645RTR440-4-32VDC	1	4-32VDC	40	480	Random	08R1020	118.60
645RTZ440-4-32VDC	1	4-32VDC	40	480	Zero Cross	08R1029	113.16
645RTR410-90-280VAC	1	90-280VAC	10	480	Random	08R1015	120.77
645RTZ410-90-280VAC	1	90-280VAC	10	480	Zero Cross	08R1024	85.96
645RTR425-90-280VAC	1	90-280VAC	25	480	Random	08R1018	151.24
645RTZ425-90-280VAC	1	90-280VAC	25	480	Zero Cross	08R1027	130.56
645RTR440-90-280VAC	1	90-280VAC	40	480	Random	08R1021	180.61
645RTZ440-90-280VAC	1	90-280VAC	40	480	Zero Cross	08R1030	136.00

SCR OUTPUT - ON/OFF CONTROL RELAYS

645SR450-3-32VDC	2	3-32VDC	50	480	Random	08R1031	58.76
645SZ450-3-32VDC	2	3-32VDC	50	480	Zero Cross	08R1035	58.76
645SR475-3-32VDC	2	3-32VDC	75	480	Random	08R1033	58.76
645SZ475-3-32VDC	2	3-32VDC	75	480	Zero Cross	08R1037	58.76
645SR450-90-280VAC	2	90-280VAC	50	480	Random	08R1032	58.76
645SZ450-90-280VAC	2	90-280VAC	50	480	Zero Cross	08R1036	58.76
645SR475-90-280VAC	2	90-280VAC	75	480	Random	08R1034	58.76
645SZ475-90-280VAC	2	90-280VAC	75	480	Zero Cross	08R1038	58.76

TRIAC OUTPUT - ON/OFF CONTROL RELAYS

645TR410-3-32VDC	2	3-32VDC	10	480	Random	08R1039	58.76
645TZ410-3-32VDC	2	3-32VDC	10	480	Zero Cross	08R1045	58.76
645TR425-3-32VDC	2	3-32VDC	25	480	Random	08R1041	58.76
645TZ425-3-32VDC	2	3-32VDC	25	480	Zero Cross	08R1047	58.76
645TR440-3-32VDC	2	3-32VDC	40	480	Random	08R1043	58.76
645TZ440-3-32VDC	2	3-32VDC	40	480	Zero Cross	08R1049	58.76
645TR410-90-280VAC	2	90-280VAC	10	480	Random	08R1040	58.76
645TZ410-90-280VAC	2	90-280VAC	10	480	Zero Cross	08R1046	58.76
645TR425-90-280VAC	2	90-280VAC	25	480	Random	08R1042	58.76
645TZ425-90-280VAC	2	90-280VAC	25	480	Zero Cross	08R1048	58.76
645TR440-90-280VAC	2	90-280VAC	40	480	Random	08R1044	58.76
645TZ440-90-280VAC	2	90-280VAC	40	480	Zero Cross	08R1050	58.76

(147911)

SCR ZERO-CROSS SWITCHING RELAYS



RoHS Compliant Available

CARLO GAVAZZI

- Green LED indicator
- Protective touch-safe cover
- Built-in MOV protection
- SMD internal circuitry
- No internal mechanical stress (no potting)
- AC and/or DC control voltage
- Up to 100A switching capability
- Up to 660VAC switching

Zero switching solid-state relays offer up to 1400Vp non-repetitive peak voltage. Provide high current carrying capabilities for operational voltages up to 660VAC. Normally open, back-to-back SCR outputs are utilized in the output circuitry to reduce leakage current. UL recognized, CSA certified, CE compliant. 600VAC switching types also available; go online or call.



4.5-32VDC CONTROL VOLTAGE

Mfg. Part No.	Line Voltage (VAC)	Operational Current (A)	Stock No.	Price Each
RM1A23D25	42-265	25	05M4304	36.00
RM1A23D50	42-265	50	05M4305	41.00
RM1A23D75	42-265	75	05M4306	66.00
RM1A48D25	42-530	25	05M4308	43.00
RM1A48D50	42-530	50	05M4309	49.00
RM1A48D75	42-530	75	05M4310	72.00

➔ CONTINUED ➔

SCR ZERO-CROSS SWITCHING RELAYS (CONT.)

Mfg. Part No.	Line Voltage (VAC)	Operational Current (A)	Stock No.	Price Each
RM1A48D100	42-530	100	16C5580	106.00
RM1A60D75	42-660	75	05M4312	94.00

24-180VDC OR 24-265VAC CONTROL VOLTAGE

RM1A23A25	42-265	25	05M4302	37.00
RM1A23A50	42-265	50	05M4303	42.00
RM1A48A50	42-530	50	05M4307	54.00
RM1A48A75	42-530	75	16C5579	78.00

(60871)

PHASE ANGLE FIRED ANALOG SWITCHING RELAYS



RoHS Compliant Available

CARLO GAVAZZI

- For phase angle control of resistive loads
- Proportionate output to analog control signal
- Up to 100A, 660VAC switching
- LED indication

Ideally suited for "phase angle" control of resistive loads, such as heater bands or incandescent lamps. The relay switches off every time the current crosses zero and switches the load voltage proportionally with the applied analog control current. Back-to-back SCR output, up to 660VAC, controlled by 4-20mA DC or 0-10VDC signal. The 0-10VDC controlled models require a constant 24 VDC supply voltage. Contact your sales office.



Fig. 1



Fig. 2

Mfg. Part No.	Fig.	Line Voltage (VAC)	Output Current (A)	Control Input	Stock No.	Price Each		
						1-4	5-14	15-24
RM1E23AA25	1	90-280	25	4-20 mA	05M4313	109.08	103.68	97.74
RM1E23AA50	1	90-280	50	4-20 mA	88H2006	145.44	138.24	130.32
RM1E23AA100	1	90-280	100	4-20 mA	90H9100	199.80	193.32	184.68
RM1E48AA25	1	390-550	25	4-20 mA	71K9921	116.36	110.60	104.26
RM1E48AA50	1	390-550	50	4-20 mA	71K9922	152.72	145.16	136.84
RM1E48AA100	1	390-550	100	4-20 mA	71K9920	235.13	223.49	210.69
RM1E60AA50	1	410-660	50	4-20 mA	89C7851	162.41	154.37	145.53
RM1E60AA100	1	410-660	100	4-20 mA	89C7849	254.52	241.92	228.06
RM1E23V100	2	90-265	100	0-10 VDC	73M6431	209.79	202.99	193.92
RM1E48V25	2	390-550	25	0-10 VDC	73M6433	111.00	107.40	102.60
RM1E48V50	2	390-550	50	0-10 VDC	73M6434	142.08	137.48	131.33
RM1E48V100	2	390-550	100	0-10 VDC	73M6432	224.22	216.95	207.26
RM1E60V25	2	410-660	25	0-10 VDC	73M6436	116.55	112.77	107.73
RM1E60V50	2	410-660	50	0-10 VDC	73M6437	149.85	144.99	138.51
RM1E60V100	2	410-660	100	0-10 VDC	73M6435	239.76	231.99	221.62

(73842)

TWO-POLE SCR ZERO-CROSS SWITCHING RELAYS



RoHS Compliant Available

CARLO GAVAZZI

- 25A or 40A SCR outputs
- 4.5 to 32VDC input
- 2 Outputs controllable separately, isolated from one another
- 2 LEDs, 1 for each input signal
- Easy installation via fast-on terminals

Zero switching solid-state relays offer 2 isolated outputs, which can be controlled by separate 4.5 to 32VDC control signals input via fast-on terminals. Up to 1200Vp non-repetitive peak voltage. 2 LEDs indicate the control status of each pole. Normally open, back-to-back SCR outputs are utilized in the output circuitry to reduce leakage current. UL recognized, CE compliant, VDE approved.



Mfg. Part No.	Line Voltage (VAC)	Operational Current (A)	Stock No.	Price Each
RA2A23D25	24-265	25	05M4263	44.00
RA2A23D40	24-265	40	05M4264	50.00
RA2A48D40	42-530	40	05M4265	54.00

(73844)

SOLID-STATE PANEL-MOUNT RELAYS

3-PHASE ZERO SWITCHING SOLID STATE RELAYS



- Built-in snubber network and protective cover
- Bright LED indication
- Unique raised back plate
- Optimum heat dissipation
- AC and/or DC control voltage
- Up to 75 A, 660 VAC switching
- Up to 1200 Vp non-repetitive voltage



Three phase zero switching solid state relays for resistive loads (heater bands) and inductive loads. Optional over temperature protection option with alarm output.

24-275 VAC or 24-50 VDC CONTROL

Mfg. Part No.	Line Voltage (VAC)	Current (A)	Stock No.	Price Each		
				1-5	6-14	15+
● RZ3A60A25	42-660	25	05M4345	226.55	216.51	205.35
● RZ3A60A55	42-660	55	17M9318	299.63	286.35	271.59
● RZ3A60A75	42-660	75	05M4346	399.51	381.80	362.12

4-32 VDC CONTROL

● RZ3A60D25	42-660	25	05M4347	220.46	210.69	199.83
● RZ3A60D55	42-660	55	17M9319	293.54	280.53	266.07
● RZ3A60D75	42-660	75	05M4349	393.42	375.98	356.60

(78970)

HEAT SINK KITS FOR CHASSIS MOUNT SSRs



- For use with most hockey puck SSRs, regardless of manufacturer
- Single phase or Three phase SSRs
- Up to two single phase SSRs can be mounted on some heat sinks
- Popular DIN-rail mounting
- Some versions with cooling fans for higher amperage loads

Mfg. part no. RHS301 for DIN rail mounting only. Kits delivered with heat sink, DIN rail adapter, mounting hardware, thermally conductive compound, and all the necessary hardware.

HEAT SINKS

Mfg. Part No.	For Use With	Max. °C/W	Stock No.	Price Each	
				1-14	1-14
● RHS100	1 Single-Phase SSR	3.0°	92F3115	49.44	
● RHS45B	1 Single-Phase SSR, Optional 40 x 40mm fan may be mounted onto the heatsink	2.0°	16C5558	53.15	
RHS90A	1 Single-Phase SSR or 1 Three-Phase SSR, Optional 60 x 60mm fan may be mounted onto heatsink	1.35°	71K9819	81.58	
● RHS301	1 or 2 Single-Phase SSRs or 1 Three-Phase SSR Optional 60 x 60mm fan may be mounted onto heatsink	0.8°	92F3084	116.19	

(2429)

EVOLUTION DUAL SOLID STATE RELAYS

Just Added



IP20 - Cover



IP00 - No Cover

Features:

- Improved mechanical and thermal design providing higher capacity output and significantly increased power density
- Screw termination suitable for rated load currents up to 50A at 660VAC per channel
- Each AC output channel features high power SCRs with high surge ratings and is available with either zero voltage or random turn on
- Four different input termination options (pin, locking connector, detachable barriers w/screws, and direct wire)
- For direct wire input termination; go online or call

Specifications:

- Output rating (per channel): 25A and 50A
- Operating voltage rating: 120/240 and 480VAC
- Control input: 4-32VDC
- Left-right output screw connection
- Zero voltage turn-on
- SCR output for heavy industrial loads
- IP20 sealed

IP20 - COVER

Mfg. Part No.	Control Voltage (VDC)	Load Current (A)	Load Voltage (VAC)	Input Connector	Stock No.	Price Each
						1-14
● CC2425W1V	4-32	25	24-280	4-pin Standard	08R4275	71.48
● CC2425W2V	4-32	25	24-280	Key Locking Connector	08R4276	73.57
● CC2425W3V	4-32	25	24-280	4-pin Screw Terminal	08R4277	73.57
● CC4825W1V	4-32	25	48-660	4-pin Standard	08R4280	88.41
● CC4825W2U*	4-32	25	48-660	Key Locking Connector	08R4281	90.49
● CC4825W3V	4-32	25	48-660	4-pin Screw Terminal	08R4282	90.49
● CC2450W2V	4-32	50	24-280	Key Locking Connector	08R4278	85.28
● CC2450W3V	4-32	50	24-280	4-pin Screw Terminal	08R4279	85.28
● CC4850W1V	4-32	50	48-660	4-pin Standard	08R4283	100.11
● CC4850W2V	4-32	50	48-660	Key Locking Connector	08R4284	102.19
● CC4850W3V	4-32	50	48-660	4-pin Screw Terminal	08R4285	102.19

IP00 - NO COVER

● CD2425W1V	4-32	25	24-280	4-pin Standard	08R4286	66.46
● CD2425W2V	4-32	25	24-280	Key Locking Connector	08R4287	68.56
● CD2425W3V	4-32	25	24-280	4-pin Screw Terminal	08R4288	68.56
● CD4825W1V	4-32	25	48-660	4-pin Standard	08R4291	83.39
● CD4825W2V	4-32	25	48-660	Key Locking Connector	08R4292	85.47
● CD4825W3V	4-32	25	48-660	4-pin Screw Terminal	08R4293	85.47
● CD2450W2V	4-32	50	24-280	Key Locking Connector	08R4289	80.26
● CD2450W3V	4-32	50	24-280	4-pin Screw Terminal	08R4290	80.26
● CD4850W1V	4-32	50	48-660	4-pin Standard	08R4294	95.10
● CD4850W2U*	4-32	50	48-660	Key Locking Connector	08R4295	97.17
● CD4850W3U*	4-32	50	48-660	4-pin Screw Terminal	08R4296	97.17

(147887)

AC OUTPUT SOLID-STATE RELAYS WITH TOUCH-SAFE COVER



- Integrated removable touch-safe cover rated IP20
- Broadened operating voltage range (24 to 280VAC)
- Low off-state leakage (1mA, snubberless)
- SCR AC switch output
- Zero cross and random voltage switching available
- LED status indicator
- Standard panel mount package
- User friendly, universal connectors
- EMC compliant design

Operating voltage: (CW24 series): 24-280VAC, (CW48 series): 48-660VAC. Max. turn-on and turn-off time: 1/2 cycle. Blocking voltage: 600V (CW24 series), 1200V (CW48 series). Operating Temperature: -40°C to 80°C. Dielectric strength: 4000V_{RMS}. Heatsinks, covers, thermal pads and noise filters available; on pages 1669-1670.

Add the following suffix to the end of the mfg. part no. to obtain the respective option:

Suffix	Option
-10	Random voltage switching
E	24VAC input (18-36VAC)
P	Internal overvoltage protection
S	Internal snubber

▶ CONTINUED ▶



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(148830)

SOLID-STATE PANEL-MOUNT RELAYS

AC OUTPUT SOLID-STATE RELAYS WITH TOUCH-SAFE COVER (CONT.)

24-280VAC—AC CONTROL RELAYS

Mfg. Part No.	Load Current (A _{rms})	Surge Current (A)	Control Voltage (V _{rms})	Max. Turn-On/Turn-Off Voltage (V _{rms})	Stock No.	Price Each		
						1-14	15-24	25-49
● CWA2410	0.15 to 10	400	90 to 280	90/10	80K5759	37.93	36.21	
● CWA2425	0.15 to 25	600	90 to 280	90/10	78K5884	38.67	36.91	
● CWA2450	0.15 to 50	850	90 to 280	90/10	78K5887	43.78	41.79	
● CWA2490	0.25 to 90	1350	90 to 280	90/10	80K5772	77.36	73.84	
● CWA24125	0.25 to 125	2000	90 to 280	90/10	69H6897	88.88	84.84	

48-660VAC—AC CONTROL RELAYS

● CWA4810	0.1 to 10	400	90 to 280	90/10	80K5777	49.72	47.46	
● CWA4850	0.1 to 50	850	90 to 280	90/10	80K5791	56.02	53.48	
● CWA4825	0.15 to 25	600	90 to 280	90/10	80K5787	50.11	47.83	
● CWA4890	0.25 to 90	1350	90 to 280	90/10	80K5796	87.07	83.11	
● CWA48125	0.25 to 125	2000	90 to 280	90/10	78K5889	100.08	95.53	

24-280VAC—DC CONTROL RELAYS

Mfg. Part No.	Load Current (A _{rms})	Surge Current (A)	Control Voltage (VDC)	Max. Turn-On/Turn-Off Voltage (VDC)	Stock No.	Price Each		
						1-14	15-24	25-49
● CWD2425	0.1 to 25	600	3 to 32	3/1	78K5895	36.22	34.58	
● CWD2410	0.15 to 10	400	3 to 32	3/1	78K5891	35.87	34.24	
● CWD2450	0.15 to 50	850	3 to 32	3/1	78K5899	42.31	40.39	
● CWD24125	0.25 to 90	2000	3 to 32	3/1	78K5894	85.61	81.72	
● CWD2490	0.25 to 90	1350	3 to 32	3/1	69H6922	74.42	71.03	

48-660VAC—DC CONTROL RELAYS

● CWD4810	0.15 to 10	400	4 to 32	3/1	80K5805	43.63	41.65	
● CWD4825	0.15 to 25	600	4 to 32	3/1	78K5903	46.19	44.09	
● CWD4850	0.15 to 50	850	4 to 32	3/1	79K6123	51.29	48.96	
● CWD4890	0.25 to 90	1350	4 to 32	3/1	78K5905	83.16	79.38	
● CWD48125	0.25 to 125	2000	4 to 32	3/1	80K5808	95.55	91.21	

(77703)

SERIES 1 SCR OUTPUT SPST-NO OR NC RELAYS



Just Added

- Current ratings up to 125A @ 530VAC
- SCR output for heavy industrial loads
- AC or DC control voltage
- Zero crossing (resistive loads) or random-fire output (inductive/phase-control loads) available
- N.O. or N.C. outputs

Control voltage for DC models is 3-32VDC. Control voltage for AC models is 90-280VAC. -B suffix in mfg. part no. indicates normally closed (NC) version. -H suffix in mfg. part no. indicates heat transfer pad version. All models have 4000 V_{opto} opto-isolation. To gradually apply power to the load when energized by the control voltage, order mfg. part no. S5120 (120V) or mfg. part no. S51240 (240V) soft start modules driver only. Relays shown have zero-cross switching. To order random-fire add "-10" to mfg. no. suffix. To order 24VAC (8-36VAC) control voltage, add "E" suffix. Outside dimensions in inches (mm): 1.87 (47.5) L x 1.80 (45.7) W x 0.9 (22.9) H. UL recognized, CSA certified, VDE approved, CE compliant.

AC CONTROL, 120VAC OUTPUT (24-140VAC)

Mfg. Part No.	Load Current Range (A _{rms})	One-Cycle Surge (Apk)	Stock No.	Price Each			
				1-14	15-24	25-49	50-99
● A1202	0.04-2	25	79K4301	24.34	23.24	22.27	21.30
● A1210	0.04-10	120	79K4302	34.41	32.85	31.48	30.11
● A1225	0.04-25	250	79K4303	35.06	33.47	32.08	30.68
● A1240	0.04-40	625	79K4304	38.78	37.01	35.47	33.93

AC CONTROL, 240VAC OUTPUT (48-280VAC)

● A2402	0.04-2	25	79K4305	26.10	24.92	23.88	22.84
● A2410	0.04-10	120	80K8075	36.12	34.48	33.04	31.60
● A2425	0.04-25	250	79K4306	36.84	35.17	33.70	32.24
● A2450	0.04-50	625	79K4310	41.70	39.80	38.14	36.49
● A2475	0.04-75	1000	80K7297	67.17	64.11	61.44	58.77
● A2490	0.04-90	1200	79K4313	73.66	70.31	67.38	64.45

AC CONTROL, 480VAC OUTPUT (48-530VAC)

● A4812	0.04-12	140	79K4314	47.35	45.20	43.31	41.43
● A4840	0.04-40	625	79K4316	53.35	50.92	48.80	46.68
● A4850	0.04-50	625	79K4317	53.35	50.92	48.80	46.68
● A4875	0.04-75	1000	79K4318	79.43	75.82	72.66	69.50
● A4890	0.04-90	1200	79K4319	82.90	79.13	75.84	72.54

DC CONTROL, 120VAC OUTPUT (24-140VAC)

● D1202	0.04-2	25	88K1075	22.55	21.52	20.63	19.73
● D1210	0.04-10	120	93K7538	33.34	31.82	30.50	29.17
● D1210-B	0.04-10	120	01M7403	50.70	45.25	41.70	39.57
● D1225	0.04-25	250	88K1901	33.83	32.29	30.95	29.60
● D1225-B	0.04-25	250	18C0566	42.19	40.27	38.60	36.92

CONTINUED

SERIES 1 SCR OUTPUT SPST-NO OR NC RELAYS (CONT.)

DC CONTROL, 120VAC OUTPUT (24-140VAC)

Mfg. Part No.	Load Current Range (A _{rms})	One-Cycle Surge (Apk)	Stock No.	Price Each			
				1-14	15-24	25-49	50-99
● D1240	0.04-40	625	88K1903	36.84	35.17	33.70	32.24
● D1240-B	0.04-40	625	89C4408	45.20	43.15	41.35	39.55

DC CONTROL, 240VAC OUTPUT (24-280VAC)

● D2402	0.04-2	25	88K1904	22.69	21.66	20.76	19.85
● D2410	0.04-10	120	93K7539	34.15	32.60	31.24	29.88
● D2410-B	0.04-10	120	93K7540	42.51	40.58	38.89	37.20
● D2410F	0.04-10	120	31B4102	35.23	33.26	31.88	30.50
● D2425F	0.04-25	250	31B4103	35.33	33.72	32.32	30.91
● D2425	0.04-25	250	93K7541	34.50	32.93	31.56	30.19
● D2425-B	0.04-25	250	88K1907	42.86	40.91	39.21	37.50
● D2440	0.04-40	625	88K1909	39.04	37.27	35.71	34.16
● D2450	0.04-50	625	93K7542	40.31	38.48	36.87	35.27
● D2450-B	0.04-50	625	92F4690	48.67	46.46	44.52	42.59
● D2450H	0.04-50	625	58M3107	41.66	39.77	38.11	36.46
● D2475	0.04-75	1000	88K1911	64.38	61.46	58.90	56.34
● D2475-B	0.04-75	1000	88K1078	72.74	69.44	66.55	63.65
● D2490	0.04-90	1200	88K1912	70.86	67.64	64.82	62.00
● D24110	0.15-110	1500	88K1077	69.40	66.25	63.49	60.73
● D24125	0.15-125	1750	88K1906	81.51	77.80	74.56	71.32
● D24125-10	0.15-125	1750	95F6064	82.35	78.61	75.34	72.06

DC CONTROL, 480VAC OUTPUT (80-530VAC)

● D4812	0.04-12	140	79K4345	41.56	39.67	38.02	36.36
● D4825	0.04-25	250	79K4346	43.99	41.99	40.24	38.49
● D4840	0.04-40	625	79K4348	48.86	46.64	44.70	42.75
● D4850	0.04-50	625	79K4350	48.86	46.64	44.70	42.75
● D4875	0.04-75	1000	79K4351	78.04	74.50	71.39	68.29
● D4890	0.04-90	1200	79K4353	80.89	77.22	74.00	70.78

PROTECTIVE COVER AND SSR PANEL MOUNT CONTROL KIT

Mfg. Part No.	Kit Contents	Stock No.	Price Each
			1-9
KCR-25	1 A1225: 120V 25A Panel Mount SSR AC Control 1 A2410: 240V 10A Panel Mount SSR AC Control 1 D1210: 120V 10A Panel Mount SSR DC Control 1 D2425: 240V 25A Panel Mount SSR DC Control 2 KS100: Protective Cover Series 1	05N1680	273.19

(3700)

HIGH-VOLTAGE AC OUTPUT SOLID-STATE RELAYS



- Features same industrial standard surface-mount package as Series 1 relays on this page
- Current rating up to 90A @ 660VAC
- SCR output for heavy industrial loads
- AC or DC control voltage
- Zero-cross (resistive loads) or random-fire (inductive/phase-control loads)
- SPST-NO contacts

Dual relays feature two totally independent AC output relays in a single standard panel-mount package. Control voltage: 4-32VDC (15mA @ 5VDC) for DC relays, 90-140VAC (15mA @ 120VAC) for AC relays. UL listed, CSA certified, VDE approved and CE compliant.

AC CONTROL MODELS

Mfg. Part No.	Load Current (A _{rms})	One-Cycle Surge (Apk)	Output Voltage (VAC)	Stock No.	Price Each	
					1-14	15-24
● H12CA4850	0.15-50	625	48-660	79K4396	51.59	49.24
● H12CA4890	0.15-90	1200	48-660	79K4397	79.03	75.44

DC CONTROL MODELS

● H12WD4850	0.15-50	625	48-660	80K8079	47.75	45.58
● H12WD4890	0.15-90	625	48-660	79K4400	62.18	59.36
● H12D4850	0.15-50	625	48-530	80K8078	45.73	43.65
● H12D4890	0.15-90	1200	48-530	79K4399	58.70	56.03

DUAL RELAYS

● H12D4825D	0.15-25	250	48-530	79K4398	79.15	75.55
● H12D4840D	0.15-40	625	48-530	80K8077	85.24	81.37

(3694)



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(148833)

SOLID-STATE PANEL-MOUNT RELAYS

AC OUTPUT SOLID-STATE RELAYS



- Features same industrial standard surface-mount package as Series 1 relays on page 1666
- Current rating up to 125A @ 660VAC
- Output: SCR AC switch for heavy industrial loads
- SPST-NO contacts
- Zero-cross (resistive loads) or random-fire output (inductive/phase-control loads)

DC control models have a 3-32VDC (3mA @ 5VDC) input. AC control models have a 90-280VAC (2mA @ 120VAC) input. Units shown have zero-cross output. Add "-10" to mfg. part no. suffix for random-fire output. UL recognized, CSA certified, VDE approved.

18-36VRMS, AC CONTROL

Mfg. Part No.	Load Current (A _{RMS})	One-Cycle Surge (A _{pk})	Output Voltage (VAC)	Stock No.	Price Each		
					1-14	15-24	25-49
HA4850E	0.04-50	625	48-530	79K4375	55.53	53.01	50.80

90-280VRMS, AC CONTROL

HA48110	0.04-110	1500	48-530	92F4669	92.47	88.27	84.59
HA4825	0.04-25	250	48-530	79K4373	48.93	46.71	44.76
HA4850	0.04-50	625	48-530	79K4374	54.69	52.20	50.03
HA4875	0.04-75	1000	48-530	08N5620	81.44	77.74	74.50
HA4890	0.04-90	1200	48-530	79K4376	84.98	81.11	77.73
HA48125	0.04-125	1750	48-530	79K4372	97.70	93.26	89.38
HA6025	0.04-25	250	48-660	79K4378	50.25	47.97	45.97
HA6050	0.04-50	625	48-660	79K4379	57.42	54.81	52.52
HA6090	0.04-90	1200	48-660	79K4380	86.46	82.53	79.09
HA60125	0.04-125	1750	48-660	79K4377	96.61	92.22	88.38

3-32VDC, DC CONTROL

Mfg. Part No.	Load Current (A _{RMS})	One-Cycle Surge (A _{pk})	Output Voltage (VDC)	Stock No.	Price Each		
					1-14	15-24	25-49
HD4812	0.04-12	140	48-530	79K4382	42.60	40.66	38.97
HD4825	0.04-25	250	48-530	79K4384	45.11	43.06	41.27
HD4850	0.04-50	625	48-530	79K4386	50.08	47.80	45.81
HD4875	0.04-75	100	48-530	79K4388	79.98	76.34	73.16
HD4890	0.04-90	1200	48-530	79K4390	81.18	77.49	74.26
HD48110	0.04-110	1500	48-530	79K4381	88.09	84.09	80.58
HD48125	0.04-125	1750	48-530	85K8112	93.28	89.04	85.33
HD6025	0.04-25	250	48-660	79K4393	45.73	43.65	41.83
HD6050	0.04-25	625	48-660	79K4394	51.33	48.99	46.95
HD6090	0.04-90	1200	48-660	79K4395	83.11	79.33	76.03
HD60125	0.04-125	1750	48-660	84K2729	94.66	90.35	86.59

(3655)

AC OUTPUT SOLID-STATE RELAYS



- Features same industry standard package as Series 1 on page 1666
- Zero cross switching (resistive loads) or random-fire (inductive/phase-control loads) output available
- SCR output for heavy industrial loads
- Low off-state leakage current
- Optically isolated
- SCR AC switch (1mA, snubberless)

Load current: 10-90A. Output voltage: 24-280VAC. Control voltage: 3-32VDC. Control current: 10mA. Add suffix "-10" to mfg. part no. for random voltage switching; add suffix "P" for internal transient protection.

Mfg. Part No.	Load Current (Arms)	Stock No.	Price Each			
			1-14	15-24	25-49	50-99
CSW2410	0.15 - 10	85K8971	28.13	26.85	25.73	24.61
CSW2425	0.15 - 25	85K8974	34.45	32.88	31.51	30.14
CSW2450	0.15 - 50	85K8977	40.48	38.64	37.03	35.42
CSW2475	0.25 - 75	85K8980	65.53	62.55	59.94	57.34
CSW2490	0.25 - 90	85K8983	72.18	68.90	66.03	63.16

(88603)

10-25 AMP, TRIAC OUTPUT RELAYS



- Features same industry standard surface-mount package as Series 1 relays on page 1666
- Current ratings up to 25A @ 240VAC
- General purpose TRIAC output
- AC or DC control voltage
- SPST-NO contacts

DC control models have a 3-32VDC (3mA @ 5VDC) input. AC control models have a 90-280VAC (2mA @ 120VAC) input. Units shown have zero-cross switching. Mfg. part no. suffix -10 indicates random turn-on. UL listed, CSA certified, VDE approved, CE compliant.

AC CONTROL MODELS

Mfg. Part No.	Load Current (A _{RMS})	One-Cycle Surge (A _{pk})	Stock No.	Price Each			
				1-14	15-24	25-49	50-99
TA1210	0.04-10	100	79K4425	34.41	32.85	31.48	30.11
TA1225	0.04-25	250	79K4426	35.06	33.47	32.08	30.68
TA2410	0.04-10	100	79K4427	36.12	34.48	33.04	31.60
TA2425	0.04-25	250	79K4428	36.84	35.17	33.70	32.24

➔ CONTINUED ➔

10-25 AMP, TRIAC OUTPUT RELAYS (CONT.)

DC CONTROL MODELS

Mfg. Part No.	Load Current (A _{RMS})	One-Cycle Surge (A _{pk})	Stock No.	Price Each			
				1-14	15-24	25-49	50-99
TD1210	0.04-10	100	79K4429	33.32	31.81	30.48	29.16
TD1225	0.04-25	250	79K4430	33.83	32.29	30.95	29.60
TD2410	0.04-10	100	79K4431	34.15	32.60	31.24	29.88
TD2425	0.04-25	250	79K4434	34.50	32.93	31.56	30.19
TD2420Q-10	0.15-20	250	79K4433	106.18	101.36	97.14	92.91

(3701)

10-90A, 120/240VAC RELAYS



- Features same surface-mount package as Series 1 relays on page 1666
- SPST-NO contacts
- IC driven, low leakage current
- Output voltage: 24-280VDC

Relays are IC driven and feature low leakage. UL listed, CSA certified, CE compliant, VDE approved.

Mfg. Part No.	Load Current (A _{RMS})	One-Cycle Surge (A _{pk})	Control Voltage (VDC)	Stock No.	Price Each			
					1-14	15-24	25-49	50-99
CSD2410	0.15-10	120	3.5-15	79K4325	28.13	26.85	25.73	24.61
CSD2425	0.15-25	250	3.5-15	79K4326	34.45	32.88	31.51	30.14
CSD2440	0.15-40	625	3.5-15	79K4327	38.69	36.93	35.39	33.85
CSD2450	0.15-50	625	3.5-15	79K4328	40.48	38.64	37.03	35.42
CSD2475	0.15-75	1000	3.5-15	80K7300	65.53	62.55	59.94	57.34
CSD2490	0.25-90	1200	3.5-15	79K4329	72.18	68.90	66.03	63.16
CSE2410	0.15-10	120	15-32	79K4330	28.13	26.85	25.73	24.61
CSE2425	0.15-25	250	15-32	79K4331	34.45	32.88	31.51	30.14
CSE2450	0.15-50	625	15-32	79K4332	40.48	38.64	37.03	35.42
CSE2490	0.15-90	1200	15-32	79K4333	72.18	68.90	66.03	63.16

(3698)

SCR AC OUTPUT RELAYS



- SCR output for heavy industrial loads
- Zero-cross (resistive loads) or random-fire output (inductive/phase-control loads)
- Low-profile housing
- Quick-connect terminals, (1/4") for easy installation
- Low leakage current



Just Added

Series EZ SPST-NO Relays have DC control and 4000 V_{IRMS} opto-isolation are standard. Relays have a 3-15VDC control voltage range and can switch 24-280VAC. Models also available with 480VAC output, AC input control (24VAC or 120VAC) and 15-32VDC input control (EZE models); go online or call. Outside dimensions: 2.63"L x 1.50"W x 0.95"H. UL recognized, CSA certified, VDE approved, CE compliant.

Mfg. Part No.	Load Current (Arms)	Control Voltage (Vrms)	Load Voltage (VDC)	Peak Surge Current (A)	Stock No.	Price Each		
						1-14	15-24	25-49
EZ240D12	0.15-12	3-15	24-280	150	79K4354	18.27	17.44	16.72
EZ240D12R*	0.15-12	3-15	24-280	150	95F6067	19.12	18.25	17.49
EZ240D12S**	0.15-12	3-15	24-280	150	95F6068	19.12	18.25	17.49
EZ240D18	0.15-18	3-15	24-280	200	79K4355	23.50	22.43	21.50
EZ480D18	0.15-18	3-15	48-660	200	31B4229	27.72	26.46	25.36
EZE240A12	0.15-12	90-140	24-280	150	73C9485	23.76	22.68	21.74
EZE240D12	0.15-12	15-32	24-280	150	92F8086	18.27	17.44	16.72
EZE240D12S**	0.15-12	15-32	24-280	150	27C7481	19.12	18.25	17.49

* Random Turn-on; ** Internal Snubber (3651)

DUAL 25A & 40A AC OUTPUT SOLID-STATE RELAYS



- Dual SSR output in one industry standard package
- Current ratings up to 40A @ 480VDC
- SCR output for heavy industrial loads
- 1/4" fast-on output terminals



Control voltage: 4-15VDC. Outside dimensions: 2.30 (58.4)L x 1.80 (45.7)W x .850 (21.6)H. Units shown are 240VAC(24-280VAC). 480VAC(48-530VAC) models are also available; go online or call.

➔ CONTINUED ➔

SOLID-STATE PANEL-MOUNT RELAYS

DUAL 25A & 40A AC OUTPUT SOLID-STATE RELAYS (CONT.)

Mfg. Part No.	Load Current (A)	Peak Surge Current (A)	Switching	Stock No.	Price Each			
					1-14	15-24	25-49	50-99
D2425D	0.15-25	250	Zero Cross	78K5914	62.06	59.24	56.77	54.30
D2425D-10	0.15-25	250	Random	78K5915	63.73	60.84	58.30	55.77
D2440D	0.15-40	250	Zero Cross	78K5916	70.28	67.09	64.29	61.50
D2440D-10	0.15-40	625	Random	78K5917	71.95	68.68	65.82	62.96

25-30A THREE-PHASE RELAYS



- Load current ratings up to 50A
- SCR output for heavy industrial loads
- Zero-crossing or random-fire output
- For 3-phase loads in a Wye or Delta configuration where only one control signal is required
- Industry-standard panel mount package

Series 53TP solid state relays switch up to 530V_{RMS} directly to loads such as motors, transformers, heating elements etc. A53- mfg. part nos. have a 90-280VAC (2mA@120VAC) input. D53- mfg. part nos. have a 3-32VDC (10mA@5VDC) control. Outside dimensions: 4.09 (103.8)L x 2.89 (73.4)W x 0.94 (24.0)H. UL recognized, CSA certified, VDE approved.

Mfg. Part No.	Load Current (A _{RMS})	One-Cycle Surge (A _{pk})	Switching	Stock No.	Price Each			
					1-14	15-24	25-49	50-99
A53TP25D	.05-25	250	Zero Cross	50F8562	144.20	137.65	131.91	126.18
A53TP50D	.05-50	250	Zero Cross	03M5671	157.24	150.10	143.84	137.59
A53TP50D-10	.05-50	625	Random	03M5672	162.26	154.88	148.43	141.98
D53TP25D	.05-25	250	Zero Cross	50F8564	138.27	131.98	126.49	120.99
D53TP50D	.05-50	625	Zero Cross	05M6384	151.31	144.43	138.42	132.40

TRIAC OUTPUT 20A QUAD RELAYS



- Independent quad SCR outputs in industry standard package
- Current ratings up to 20A @ 240VAC
- 1/4" fast-on output terminals
- 4-15VDC input, 24-280Vrms switching

Outside dimensions: 2.30 (58.4)L x 1.80 (45.7)W x 0.85 (21.6)H. UL recognized, CSA certified.

Mfg. Part No.	Load Current (A)	One-Cycle Surge (A _{pk})	Switching	Stock No.	Price Each			
					1-14	15-24	25-49	50-99
TD2420Q	0.15-20	250	Zero Cross	79K4432	102.84	98.17	94.08	89.99
TD2420Q-10	0.15-20	250	Random	79K4433	106.18	101.36	97.14	92.91

SERIES 1 DC OUTPUT SOLID-STATE RELAYS



Just Added



- Features same industry standard surface-mount package as Series 1 relays on page 1666
- MOSFET output
- Load current up to 40A DC
- Output voltage up to 500VDC
- Easily paralleled for high-current applications

All models have 2500 volt DC isolation. Control voltage range is 3.5-32VDC (1.6mA@5VDC) (100 volt models). UL recognized, CE compliant.

Mfg. Part No.	Load Voltage (VDC)	Load Current (A)	Stock No.	Price Each			
				1-14	15-24	25-49	50-99
D1D07	0-100	0.02-7	80K9295	49.34	47.09	45.13	43.17
D1D12	0-100	0.02-12	80K9296	54.51	52.03	49.87	47.70
D1D20	0-100	0.02-20	80K9297	59.74	57.02	54.65	52.27
D1D40	0-100	0.02-40	80K9298	74.21	70.83	67.88	64.93
D1D60	0-100	0.02-60	04R7288	99.81	95.28	91.31	87.34
D1D80	0-100	0.02-80	04R7289	113.28	108.13	103.62	99.12
D1D100	0-100	0.02-100	04R7287	126.65	120.90	115.86	110.82
D2D07	0-200	0.02-7	80K9299	56.98	54.39	52.12	49.85
D2D12	0-200	0.02-12	80K9300	65.65	62.67	60.06	57.45
D2D40	0-200	0.02-40	18M5003	93.67	89.41	85.69	81.96
D4D07	0-400	0.02-7	80K9301	66.94	63.89	61.23	58.57
D4D12	0-400	0.02-12	80K9302	90.17	86.07	82.48	78.90

CONTINUED

SERIES 1 DC OUTPUT SOLID-STATE RELAYS (CONT.)

Mfg. Part No.	Load Voltage (VDC)	Load Current (A)	Stock No.	Price Each			
				1-14	15-24	25-49	50-99
D5D07	0-500	0.02-7	80K9303	73.87	70.51	67.58	64.64
D5D10	0-500	0.02-10	82K8436	97.61	93.18	89.29	85.41

60 - 100A DC OUTPUT SOLID-STATE RELAYS



- Features same surface-mount package as Series 1 relays; on page 1666
- MOSFET output
- Easily paralleled for higher current applications
- Available in 60, 80 and 100A
- Low On-State Resistance
- Output Voltage: 0-60VDC
- Operating Temperature: -30°C to +80°C
- Dielectric Strength (60Hz): 2500 V_{RMS}

Mfg. Part No.	Max. Load Current (ADC)	Max. Surge Current (ADC)	Stock No.	Price Each			
				1-14	15-24	25-49	50-99
D06D60	60	180	88K1898	83.16	79.38	76.08	72.77
D06D80	80	220	88K1899	96.66	91.88	88.16	84.44
D06D100	100	270	93K7537	158.37	153.30	146.54	140.34

DC OUTPUT RELAYS



- Features same surface-mount package as Series 1 relays on page 1666
- MOSFET output
- Low on-state resistance
- Panel mount
- Optically coupled
- Paralleling capability for higher currents

MOSFET Technology assures easy paralleling and switching capabilities to 40A @ 100VDC. Lower current models also available up to 500VDC; go online or call.

Mfg. Part No.	Control Voltage (VDC)	Load Current (A)	Stock No.	Price Each			
				1-14	15-24	25-49	50-99
D2D12L	200	0.02 - 12	88K1076	65.65	62.67	60.06	57.45
D1D40L	100	0.02 - 40	86H2639	80.14	76.38	73.05	70.12

3-7A DC OUTPUT RELAYS



- Features same industry standard surface-mount package as Series 1 relays on page 1666
- Bi-polar transistor output
- Current rating up to 7A @ 60VDC
- 3-60VDC switching
- N.O. or N.C. outputs
- 4 kV optical isolation
- AC or DC control

Mfg. Part No.	Load Current (ADC)	Control Voltage	Contacts	Stock No.	Price Each			
					1-14	15-24	25-49	50-99
DC60S3	0.02 - 3	3.5-32VDC	SPST-NO	93K7532	14.84	14.17	13.58	12.99
DC60S5	0.02 - 5	3.5-32VDC	SPST-NO	88K1895	23.25	22.20	21.27	20.35
DC60S7	0.02 - 7	3.5-32VDC	SPST-NO	88K1896	29.04	27.72	26.57	25.41
DC60SA3	0.02 - 3	90-280VAC	SPST-NO	01M7320	17.13	16.35	15.67	14.99
DC60SA5	0.02 - 5	90-280VAC	SPST-NO	88K1893	25.58	24.41	23.40	22.38
DC60SA7	0.02 - 7	90-280VAC	SPST-NO	88K1894	31.37	29.94	28.69	27.45
DC60S3-B	0.02 - 3	3.5-32VDC	SPST-NC	06M6633	23.43	22.12	21.21	20.29
DC60S5-B	0.02 - 5	3.5-32VDC	SPST-NC	06M6634	28.27	26.98	25.86	24.74
DC60S7-B	0.02 - 7	3.5-32VDC	SPST-NC	06M6635	37.75	35.64	34.17	32.69
DC60SA3-B	0.02 - 3	90-280VAC	SPST-NC	06M6630	25.49	24.33	23.32	22.30
DC60SA5-B	0.02 - 5	90-280VAC	SPST-NC	06M6631	33.94	32.39	31.04	29.70
DC60SA7-B	0.02 - 7	90-280VAC	SPST-NC	06M6632	39.98	37.95	36.26	34.71

HIGH-VOLTAGE DC SOLID-STATE CONTACTORS



- Features same surface-mount package as Series 1 relays on page 1666
- IGBT technology for high-voltage DC switching
- Current load range: 0.2-25A DC
- Dielectric strength 60Hz: 2500 V_{RMS}
- Insulation resistance (min.) @ 500 VDC: 10⁹Ω
- Max. capacitance input/output: 50 pF
- Ambient operating temperature range: -30°C to 80°C
- Ambient storage temperature range: -40°C to 125°C
- Weight (typical): 3.0oz. (86.5g)

Mfg. Part No.	Operating Voltage (VDC)	Control Voltage (VDC)	Control Voltage (VDC)	Impedance Input (Ω)	Stock No.	Price Each	
						1-14	15-24
SSC800-25-24	0-800	24	20-28	1.5 K	88K1999	155.52	148.45
SSC1000-25-24	0-1000	24	20-28	1.5 K	88K1997	186.63	178.15
SSC1000-25-36	0-1000	36	32-40	2.4 K	88K1240	186.63	178.15
SSC800-25-36	0-800	36	32-40	2.4 K	88K1241	155.52	148.45
SSC800-25-12	0-800	12	8-16	780	88K1998	155.52	148.45

SOLID-STATE PANEL-MOUNT RELAYS

PROPORTIONAL CONTROLLERS



RPC series proportional controllers provide a stable yet economical method of controlling power. An inexpensive potentiometer connected to the input provides the proportional control. **Mfg. part nos.** RPC12- require potentiometer resistance of 150k Ω and potentiometer wattage: 1W. **Mfg. part nos.** RPC24- and RPC48- require a 1M Ω , 1/2W potentiometer.

Mfg. Part No.	Load Current (A _{RMS})	One-Cycle Surge (A _{PK})	Stock No.	Price Each		
				1-14	15-24	25-49
● RPC1215	15	150	80K9308	63.96	61.06	58.51
● RPC1225	25	250	80K9309	82.72	78.96	75.67
● RPC1240	40	625	03M5742	112.84	107.71	103.22
● RPC2415	15	150	80K9310	69.84	66.67	63.89
● RPC2425	25	250	80K9311	86.54	82.61	79.17
● RPC2440	40	625	82K8614	120.37	114.90	110.11
● RPC4825	25	250	80K9312	97.79	93.34	89.46
● RPC4840	40	625	80K9313	131.60	125.62	120.38

PCV series proportional controllers are self-contained power control modules integrating a complete phase fired logic control system and solid state relays in the same standards package. Control voltage for **mfg. part no.** 70CV2415 is 2-7VDC (4-7mA typ). Output voltage is 100-240VAC. Control voltage for **mfg. part nos.** 10CV24XX is 2-10VDC (4-7mA typ).

Mfg. Part No.	Load Current (A _{RMS})	One-Cycle Surge (A _{PK})	Stock No.	Price Each		
				1-14	15-24	25-49
● 7PCV2415	15	150	03M5799	85.72	80.93	77.58
● 10PCV2415	15	150	03M5768	85.12	81.25	77.86
● 10PCV2425	25	250	03M5769	94.29	90.00	86.25
● 10PCV2440	40	625	03M5770	111.32	106.26	101.84
● 10PCV2450	50	625	91F5738	114.91	109.69	105.12
● 10PCV2475	75	1000	03M5771	136.63	130.42	124.99

LPCV Series linear proportional controllers control loads up to 110A. Changes in the input signal linearly vary the firing angle of the thyristor load control device. Control circuitry and power switch are in the same package. **Mfg. part nos.** PS-120 and PS-240 power supplies are designed to provide the 20VAC required in addition to the control voltage. **Mfg. part nos.** 5LPCV- have a 0-5VDC control. **Mfg. part nos.** 10LPCV- have a 0-10VDC control.

Mfg. Part No.	Load Current (A _{RMS})	One-Cycle Surge (A _{PK})	Stock No.	Price Each		
				1-14	15-24	25-49
● 5LPCV2475	75	1000	80K9323	369.11	352.33	337.65
● 5LPCV24110	110	1500	88K1417	383.84	366.40	351.13
● 10LPCV2440	40	625	92F4739	338.87	323.47	309.99
● 10LPCV2425	25	250	80K9322	295.31	281.89	270.15

TRANSFORMERS FOR LPCV SERIES

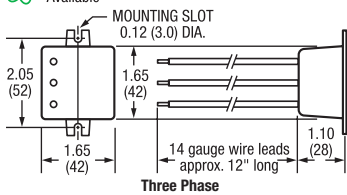
Mfg. Part No.	Description	Stock No.	Price Each		
			1-14	15-24	25-49
● PS-120	120V Power Supply	03M5741	54.35	51.88	49.72
● PS-240	240V Power Supply	92F4731	54.35	51.88	49.72

(2430)

SOLID-STATE RELAY FILTERS — AC OUTPUT



Single Phase



- Suppresses EMI noise
- Simple installation in new or existing equipment

Designed to significantly reduce EMI noise generated by solid-state relays to meet EMC regulations. All AC solid-state relays that use thyristor switching devices generate some low frequency noise, that may appear as conducted emissions on the main supply line connection. Current is not required to pass through the filter. The only connections required are across the incoming supply line.

Mfg. Part No.	Connection*	Output Voltage (V _{rms})	Attenuation 150 to 250KHz (dB μ V)	Maximum Current Drain (mA) \dagger	Stock No.	Price Each		
						1-14	15-24	25-49
● 1F25	Single	275	30	40	03M5767	15.50	14.75	
● 3F20	Three	475	25	35	52F6724	22.09	21.02	

*Number of phases; \dagger At V_{rms} max. (75479)

MICROCONTROLLERS



- Dielectric strength: 50/60Hz, input/output/base: 4000 Vrms
- Insulation resistance (Min.) @ 500 VDC: 10⁹ Ω
- Max. capacitance input/output: 10 pF
- Ambient operating temperature range: -20 to 85°C
- Ambient storage temperature range: -40 to 125°C

Proportional controllers (**PC series**) are based with an output status indicator, a wide input logic supply and two control inputs for On/Off and proportional load voltage. Proportional load voltage input (PLV) can be configured by voltage, current or potentiometer, therefore they do not require any adjustment or calibration. They are optically insulated and rated at up to 90A. Applications include industrial temperature controllers, tungsten lamps and light dimming, vibratory feeders, resistive heating elements and universal motor control.



Mfg. Part No.	Load Current (A _{RMS})	One-Cycle Surge (Apk)	Operating Voltage (V)	Load Voltage Input	Stock No.	Price Each		
						1-14	15-24	25-49
● MCPC2425C	25	250	240	0-10VDC	03M5720	76.81	73.32	
● MCPC1250C	50	625	120	0.10VDC	03M5718	82.67	78.91	
● MCPC2425E	25	250	240	Internal Potentiometer	03M5721	76.81	73.32	
● MCPC4825C	25	250	480	0-10VDC	09J4581	75.60	72.25	
● MCPC4825E	25	250	480	Internal Potentiometer	03M5722	87.51	83.53	

ST series is designed to provide surge-reducing soft-start (SC) switching functions for any type of load which benefits from a gradual application or released or both of supply voltage. This series is ideal for starting motors to reduce starting current or to prevent saturation when turning on a transformer. Ramp time can be adjusted by analog input from 100ms to 10sec. Other applications include lamp control and lighting loads.

Mfg. Part No.	Load Current (A _{RMS})	One-Cycle Surge (Apk)	Operating Voltage (V)	Analog Input	Stock No.	Price Each		
						1-14	15-24	25-49
● MCST1250CM	50	625	120	0-10VDC	03M5723	82.67	78.91	
● MCST1250ES	50	625	120	Potentiometer	03M5724	82.67	78.91	
● MCST2425CM	25	250	240	0-10VDC	03M5725	76.81	73.32	
● MCST2425ES	25	250	240	Potentiometer	03M5726	76.81	73.32	
● MCST4825ES	25	250	480	Potentiometer	09J4588	87.51	83.53	
● MCST4825CM	25	250	480	0-10VDC	03M5727	87.51	83.53	

TC (Temperature Controller) is a state of the art microcontroller based silicon controlled rectifier (SCR) is intended for controlling industrial heaters. They include a proportional derivative feature for reducing overshoot on setpoint temperature, additionally with burst zero voltage switching firing with minimum time base of 16.6ms for 60Hz applications. They also have two temperature ranges J or K thermocouple.

Mfg. Part No.	Load Current (A _{RMS})	One-Cycle Surge (Apk)	Operating Voltage (V)	Temp. Range	Stock No.	Price Each		
						1-14	15-24	25-49
● MCTC2425JLC	25	250	240	100°F to 500°F	03M5728	101.15	96.55	
● MCTC2450JLC	50	625	240	100°F to 500°F	03M5730	110.87	105.83	
● MCTC2450KHD	50	625	240	300°F to 700°F	03M5731	110.87	105.83	
● MCTC4825JLC	25	250	480	100°F to 500°F	03M5732	106.94	102.08	

(80263)

8A AC OUTPUT RELAYS



- Zero-cross switching
- 2500V isolation
- Load current ratings up to 8A @ 240VAC
- Low off-state leakage current
- 3/16" fast-on terminals
- Snubberless design

Mfg. part no. S228C is a snubberless design for applications requiring low off-state leakage. Control voltage range is 3.5-8VDC (18mA @ 5VDC). Dimensions: 1.75 (44.4)L x 0.85 (21.6)W x 0.83 (21.1)H. UL recognized, CSA certified, CE compliant.



Mfg. Part No.	Output Voltage (VAC)	Load Current (A _{RMS})	One-Cycle Surge (Apk)	Stock No.	Price Each			
					1-14	15-24	25-49	50-99
● S218	20-140	0.15-8	120	03M5744	33.13	31.62	30.30	28.99
● S228	40-280	0.15-8	120	93K7598	34.89	33.30	31.91	30.53
● S228C	40-280	0.15-8	120	03M5745	34.89	33.30	31.91	31.91

(3710)

Expert technical support

Chat online to our team of engineers, or connect to them through your representative.

(148838)

SOLID-STATE PANEL-MOUNT RELAYS

HEAT SINKS AND SAFETY COVERS



HS-1

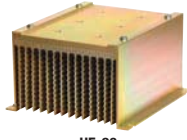


HS-2



HE-54

HS and HE series heat sinks provide efficient heat dissipation and allow SSRs to operate close to their maximum ratings. Each has mounting brackets and is drilled and tapped to take one Crydom relay. HE-90 will take up to three relays or one type 53TP. All current ratings based upon use of a suitable thermal compound with fins mounted in the vertical plane in a 40°C maximum ambient temperature. For use with Crydom thermal transfer pads. Order separately online. KS series protective covers are made of clear polycarbonate material, which are designed to fit over standard relays. They provide added protection from electric shock when installing or checking equipment.



HE-90

HEAT SINKS

Mfg. Part No.	Max. Current (A)	Deg. C/W@ Max. Current	H x W x D (in.)	Stock No.	Price Each	
					1-14	15-24
● HS-1	10	2.70	1.60 x 3.36 x 2.06	93K7584	9.49	9.06
● HS-2	20	1.70	1.60 x 3.36 x 4.12	93K7585	13.89	13.26
● HS-6	...	0.50	6.25 x 6.25 x 6.05	83F7825	122.25	113.13
● HE-54	50	0.67	2.62 x 4.75 x 5.50	93K7581	13.89	13.26
● HE-90	90	0.43	3.50 x 6.0 x 6.0	93K7582	97.12	92.71

COVERS

Mfg. Part No.	Description	For Series	Stock No.	Price Each	
				1-14	15-24
● KS-100	Single Phase SSRs	1	95F2220	3.05	2.91
● KS-300	Three Phase SSRs	53TP	95F6052	4.95	4.72

(3769)

For Thermal Joint Compound, go online or call. (102097)

3 PHASE SOLID STATE RELAYS



Fig. 1



Fig. 2

Features:

- Three-phase (motor-reversing) solid-state relay
- DBC substrate for superior thermal performance
- Epoxy-free design reduces internal component stress
- Back-to-Back dual SCR output for heavy industrial loads
- 100k-cycle UL508 endurance rating for enhanced reliability
- No external transient protection required (internal TVS)
- EMC Compliant for reliable operation in harsh environments
- Epoxy-free design reduces internal component stress

Specifications:

- Ratings up to 50A at 530Vac
- 4000Vac Optical Isolation
- Operating temperature: -40° to 80°C
- Operating Frequency: 47 to 63Hz
- Housing Material: UL94V-0

THREE-PHASE MOTOR REVERSING SOLID-STATE RELAYS

Mfg. Part No.	Fig.	Load Current (A)	Input Voltage	Output Voltage (VAC)	Stock No.	Price Each	
						1-14	15+
● GN025DSR	1	25	4-32V	48-530	87K3748	200.85	194.04

THREE-PHASE SOLID-STATE RELAYS

● GN325DLZ	2	25	4-32V	48-600	87K3755	144.68	139.87
● GN325ELR	2	25	18-36V	48-600	87K3756	172.09	163.89
● GN325ALR	2	25	180-260V	48-600	87K3750	172.09	163.89
● GN350DLZ	2	50	4-32V	48-600	87K3765	157.84	150.32
● GN350ELR	2	50	18-36V	48-600	87K3766	187.68	178.74

(107929)

SOLID-STATE RELAYS



Touch-Safe



Traditional

The GN series offers a built in IP20 "Touch-Safe" cover and traditional style case and offers current ranges from 10 to 125 amps. EMC compatibility to EN 50082-2 (Immunity), EN50081-2 (Emissions), C.I.S.P.R.22 (Radiated) Class B, (Conducted) Class A, EN60950 and IEC 947-4-2. UL recognized, CE compliant per LVD 73/23/EED and TÜV approved.

TOUCH-SAFE, ZERO VOLTAGE TURN-ON

Mfg. Part No.	Control Voltage	Output Current (A)	Switching	Max. Output (VAC)	Stock No.	Price Each		
						1-14	15-24	25-49
● 84137001	90-280V	10	Zero Cross	24-280	17M8496	44.92	41.03	37.87
● 84137011	90-280V	25	Zero Cross	24-280	17M8498	46.84	42.74	39.50
● 84137021	90-280V	50	Zero Cross	24-280	17M8500	57.66	52.58	48.55
● 84137031	90-280V	75	Zero Cross	24-280	17M8501	67.77	63.15	58.29
● 84137000	3-32V	10	Zero Cross	24-280	17M8495	40.22	36.71	33.91
● 84137010	3-32V	25	Zero Cross	24-280	17M8497	39.88	36.43	33.63
● 84137020	3-32V	50	Zero Cross	24-280	17M8499	52.00	47.49	43.83
● 84137030	3-32V	75	Zero Cross	24-280	18C2059	60.29	55.06	50.84
● 84137080	3-32V	125	Zero Cross	24-280	18C2063	113.53	103.80	96.23
● 84137121	90-280V	50	Zero Cross	48-660	17M8506	69.48	63.42	58.54
● 84137131	90-280V	75	Zero Cross	48-660	18C2072	98.05	89.65	83.11
● 84137100	4-32V	10	Zero Cross	48-660	17M8503	47.61	43.49	40.18
● 84137110	4-32V	25	Zero Cross	48-660	17M8504	51.25	46.81	43.18
● 84137120	4-32V	50	Zero Cross	48-660	17M8505	60.43	55.21	51.01
● 84137130	4-32V	75	Zero Cross	48-660	18C2071	80.48	76.65	72.82
● 84137140	4-32V	100	Zero Cross	48-660	17M8507	87.39	79.78	73.72
● 84137180	4-32V	125	Zero Cross	48-660	17M8508	108.54	99.08	91.48
● 84137182	18-36V	125	Zero Cross	48-660	28C6113	119.21	113.53	107.85

TOUCH-SAFE, RANDOM TURN-ON

● 84137200	3-32V	10	Random	24-280	18C2077	45.13	41.20	38.03
● 84137210	3-32V	25	Random	24-280	18C2078	46.33	44.12	41.92
● 84137220	3-32V	50	Random	24-280	18C2079	53.13	50.60	48.07
● 84137240	3-32V	100	Random	24-280	17M8509	81.90	74.72	69.05
● 84137280	3-32V	125	Random	24-280	17M8510	119.20	108.98	101.04
● 84137300	4-32V	10	Random	48-660	18C2083	57.06	52.17	48.37
● 84137310	4-32V	25	Random	48-660	17M8511	61.43	56.16	52.07
● 84137330	4-32V	75	Random	48-660	17M8512	93.92	85.87	79.61
● 84137340	4-32V	100	Random	48-660	17M8513	104.75	95.77	88.79
● 84137380	4-32V	120	Random	48-660	18C2088	117.03	111.46	105.89

TRADITIONAL, ZERO VOLTAGE TURN-ON

● 84134001	90-280V	10	Zero Cross	24-280	17M8470	43.38	39.61	36.61
● 84134011	90-280V	25	Zero Cross	24-280	17M8471	40.98	37.42	34.53
● 84134021	90-280V	50	Zero Cross	24-280	18C2018	56.27	51.13	46.92
● 84134031	90-280V	75	Zero Cross	24-280	18C2020	69.48	63.44	58.54
● 84134000	3-32V	10	Zero Cross	24-280	17M8469	39.07	35.68	34.51
● 84134010	3-32V	25	Zero Cross	24-280	18C2015	37.15	33.89	31.34
● 84134020	3-32V	50	Zero Cross	24-280	18M4418	55.93	51.06	48.50
● 84134030	3-32V	75	Zero Cross	24-280	18M9803	57.05	52.04	48.03
● 84134040	3-32V	100	Zero Cross	24-280	18C2021	45.86	...	...
● 84134101	90-280V	10	Zero Cross	48-660	17M8472	44.72	40.81	37.72
● 84134111	90-280V	25	Zero Cross	48-660	18C2028	51.26	46.75	43.18
● 84134121	90-280V	50	Zero Cross	48-660	20M7447	59.57	55.69	53.86
● 84134131	90-280V	75	Zero Cross	48-660	17M8476	82.90	75.69	69.88
● 84134141	90-280V	100	Zero Cross	48-660	18C2034	92.88	88.46	84.03
● 84140003	4-15V	25	Zero Cross	24-280	68K8659	53.72	52.22	51.32
● 84134110	4-32V	25	Zero Cross	48-660	17M8473	47.70	43.50	40.22
● 84134120	4-32V	50	Zero Cross	48-660	17M8474	50.85	46.45	42.89
● 84134130	4-32V	75	Zero Cross	48-660	17M8475	75.11	68.53	63.29
● 84134140	4-32V	100	Zero Cross	48-660	17M8477	83.98	76.61	70.77
● 84134180	4-32V	125	Zero Cross	48-660	17M8478	103.55	94.47	87.29
● 84134022	18-36V	50	Zero Cross	280-280	28C6086	58.99	53.94	50.00
● 84134182	18-36V	125	Zero Cross	48-660	28C6095	113.01	107.63	102.24

TRADITIONAL, RANDOM TURN-ON

● 84134200	3-32V	10	Random	24-280	18C2037	40.30	38.38	36.46
● 84134210	3-32V	25	Random	24-280	17M8479	48.82	44.61	41.14
● 84134220	3-32V	50	Random	24-280	18C2039	62.72	57.27	52.91
● 84134300	4-32V	10	Random	48-660	17M8480	52.74	48.22	44.70
● 84134310	4-32V	25	Random	48-660	17M8481	50.00	45.66	42.16

CONTINUED

SOLID-STATE PANEL-MOUNT RELAYS

SOLID-STATE RELAYS (CONT.)

TRADITIONAL, RANDOM TURN-ON

Mfg. Part No.	Control Voltage	Output Current (A)	Switching	Max. Output (VAC)	Stock No.	Price Each		
						1-14	15-24	25-49
● 84134320	4-32V	50	Random	48-660	17M8482	65.85	60.13	55.50
● 84134340	4-32V	100	Random	48-660	17M8483	85.93	...	...
● 84134380	4-32V	125	Random	48-660	19M1089	122.81	112.29	104.10

(32199)

DC SOLID-STATE RELAYS

- Features same packages as Crouzet's traditional and touch-safe solid-state relays on pages 1670-1671
- Transistor output versions offer 4kV optical isolation
- Very low leakage current (<10µA)
- Milliohm on-resistance



TOUCH-SAFE IP20 - FET OUTPUT

Mfg. Part No.	Control Voltage (VDC)	Output Current (A)	Max. Output (VDC)	Stock No.	Price Each
● 84137850	3-32	10	1-200	21M5226	65.37
● 84137860	3-32	15	1-100	17M8514	56.52
● 84137870	3-32	30	1-50	17M8515	52.41

TRADITIONAL IP00 - FET OUTPUT

● 84134850	-	10	1-200	17M8485	56.71
● 84134860	-	15	1-100	17M8486	56.31
● 84134870	4-	30	1-50	64M0226	53.67

TOUCH-SAFE IP20 - TRANSISTOR OUTPUT

● 84137750	3-32	10	1-60	20M3075	37.08
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TRADITIONAL IP00 - TRANSISTOR OUTPUT

● 84134750	-	10	1-60	17M8484	35.93
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(79408)

SOLID-STATE SERIES RELAYS

- Current ratings from 10 to 125A
- Output voltage from 24 to 660Vac
- Back to back SCR's for severe inductive loads
- Direct bond copper substrate
- Improved power lead frame design
- LED input status indicator
- Feature same screw-terminal package as Crouzet's traditional solid-state relays on pages 1670-1671



Specifications:

- 4000Vac Optical Isolation
- Operating temperature: -40° to 80°C

- Operating Frequency: 47 to 63Hz
- Housing Material: UL94V-0

GNA5 SERIES, SCREW TERMINALS

Mfg. Part No.	Load Current (A)	Input Voltage (VDC)	Output Voltage (VAC)	Stock No.	Price Each
● 84134900	10	3-32V	-	17M8487	28.43
● 84134901	10	90-280V	-	17M8488	20.09
● 84134910	25	4-32V	-	17M8491	33.08
● 84134911	25	90-280V	-	17M8492	31.54
● 84137911*	25	90-280V	24-280	19K5842	43.25

GNA5 SERIES, 1/4" INPUT AND OUTPUT TERMINALS

● 84134907	10	3-32V	-	17M8489	27.97
● 84134909	10	90-280V	-	17M8490	30.49
● 84134917	25	3-32V	-	17M8493	30.59
● 84134919	25	90-280V	-	17M8494	32.32

GNA5 SERIES, 3/16" INPUT AND 1/4" OUTPUT TERMINALS

● 84134914	25	3-32V	-	55M6341	20.44
● 84134915	25	90-280V	-	55M6342	21.58

*Comes with IP20 "touch-safe" cover (12928)

(148843)

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(148843)

SOLID-STATE RELAYS



Features:

- True 25A or 40A per channel rating
- Dual input channels for independent output operation
- DBC substrate for superior I2T & thermal performance
- Internal transient protection eliminates the need for external MOV
- Available with 1/4" QC or saddle-clamp terminals



Specifications:

- 4000Vac optical isolation
- Operating temperature: -40° to 80°C
- Operating frequency: 47 to 63Hz
- Housing material: UL94V-0

ZERO VOLTAGE SWITCHING

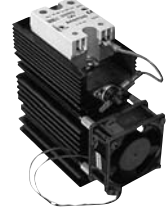
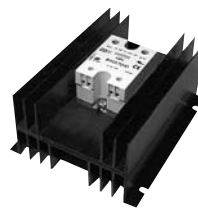
Mfg. Part No.	Current (A)	Output Voltage (VAC)	Input Voltage (VDC)	Stock No.	Price Each	
					1-14	15-24
● 84140000	25	24-280	4-15V	30C9955	66.93	60.42
● 84140010	25	24-280	17-32V	17M8518	62.76	56.66
● 84140510	25	48-660	17-32V	68K8669	77.27	73.59
● 84140200	40	24-280	4-15V	17M8519	68.47	61.83
● 84140210	40	24-280	17-32V	73H5419	60.86	...
● 84140603	40	48-660	4-15V	68K8675	60.89	59.07
● 84140213	40	24-280	17-32V	68K8664	54.22	52.60

RANDOM SWITCHING

● 84145020	0.5	24-250	4-6.2V	44P2234	58.63	55.84
● 84140100	25	24-280	4-15V	30C9957	38.49	...
● 84140300	40	24-280	4-15V	17M8520	71.14	64.25
● 84140611	40	48-660	17-32V	68K8677	88.57	84.35

(68210)

HEAT SINKS



HS-5

HS-8.1

HS-12

HS series heat sink are for use with GN, GNA5 and GD series solid state relays. Body material: Aluminum. Body finish: Black anodized.

Mfg. Part No.	Description	Max. °C/W	Stock No.	Price Each	
				1-14	15-24
● HS8.1	Heat Sink for One Single-Phase SSR Panel or DIN Rail Mount	2.0	68K4374	26.82	25.20
● HS5	For Single Phase SSR Panel Mount	0.7	19K5346	34.16	31.52
HS-10	Heat Sink for One Single-Phase SSR Panel or DIN-Rail Mount	1.1	20C3416	70.19	64.96
HS-12	HS-10 w/12VDC Fan and Thermal Cutout	0.55	28C3417	110.49	100.41
● HS13	For Single Phase and Three Phase SSR DIN Rail Mount	0.8	89H9287	67.73	63.62

(68209)

PANEL MOUNT SOLID STATE RELAYS



Features:

- Input status LED indicator
- Dual SCR output
- Direct bond copper substrate
- Internal transient protection - built-in snubber
- High surge capability
- Optional finger-safe terminal cover (RSS-CVR)

Specifications:

- Blocking voltage: 1200V
- Optical isolation: 4000V
- Zero cross
- Output voltage: 48-660VAC
- Contacts: SPST-NO

AC RELAYS

Mfg. Part No.	Control Voltage (VAC)	Load Current (A)	Stock No.	Price Each		
				1-14	15-24	25-49
● RSSAN-10A	90-280	10	31B3391	29.42	26.13	24.90
● RSSAN25A	90-280	25	80K6136	30.35	...	...
● RSSAN-50A	90-280	50	80K6135	38.22	...	...
● RSSAN-75A	90-280	75	31B3392	62.16	55.22	52.62
● RSSAN-90A	90-280	90	31B3393	70.59	62.71	59.75

▶ CONTINUED ▶

SOLID-STATE PANEL-MOUNT RELAYS

PANEL MOUNT SOLID STATE RELAYS (CONT.)

DC RELAYS

Mfg. Part No.	Control Voltage (VAC)	Load Current (A)	Stock No.	Price Each		
				1-14	15-24	25-49
● RSSDN-10A	4-32	10	13M2780	22.07	19.60	18.68
● RSSDN-25A	4-32	25	80K6137	23.07	...	...
● RSSDN-50A	4-32	50	13M2781	35.49	...	...
● RSSDN-75A	4-32	75	31B3394	56.89	50.54	48.16
● RSSDN-90A	4-32	90	31B3395	66.37	58.97	56.19

ACCESSORIES

Mfg. Part No.	Description	For Use With	Stock No.	Price Each	
				1-14	15-49
● RSS-CVR	Finger-safe terminal cover	RSS series solid-state relays	31B3390	2.11	

MINIATURE SOLID-STATE RELAYS



Just Added



SPST-NO relays provide 3750V_{ins} optical isolation from sensitive logic circuits to field devices. PC terminal, screw, blade-style or socket compatible. Suffix "N" relays have quick connect terminals for push-on connectors which fit blade sizes 0.187" (4.75) and 0.250" (0.635) for the load size. Suffix "K" relays have quick-connect terminals and are socket-mountable in type no. 70-459-1. Suffix "H" miniature printed circuit mount relay, only 0.500". Suffix "M" compact relay, panel or printed circuit mount. Suffix "S" relays have screw terminals with screws. Dimensions (inches): 1.70L x 0.40W x 1.00H (Suffix V), 1.20L x 1.00W x 0.83H (Suffix F and N), 2.00L x 1.00W x 0.864H (Suffix S). UL recognized File No. E52197.

PC BOARD THRU-HOLE SIP

Mfg. Part No.	Max. Load Current (A)	Control Voltage (VDC)	Load Voltage	Stock No.	Price Each		
					1-14	15-24	25-49
● 70S2-04-D-03-V	3	3-32	8-50VAC	10M6467	16.30	15.89	15.39
● 70S2-01-A-03-V	3	3-15	3-60VDC	10M6451	15.82	15.34	14.35
● 70S2-04-B-03-V	3	3-32	24-140	10M6459	15.82	15.31	14.80
● 70S2-04-C-03-V	3	3-32	24-280VAC	10M6462	15.80	15.31	14.83

PC BOARD THRU-HOLE W/FLANGE

● 70S2-04-C-10-M	10	3-30	24-280VAC	10M6464	18.48	18.01	17.45
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QUICK-CONNECT W/FLANGE

● 70S2-01-A-05-N	5	3-15	3-60VDC	10M6452	26.32	24.94	23.29
● 70S2-04-B-06-N	6	3-30	24-140VAC	10M6461	24.68	23.86	22.90
● 70S2-04-C-06-N	6	3-30	24-280VAC	14M6826	23.67	22.55	21.19
● 70S2-04-B-12-N	12	3-30	24-140VAC	17M8461	22.82	22.04	20.67
● 70S2-04-C-12-N	12	3-30	24-280VAC	10M6465	16.37	15.56	14.61

SCREW TERMINALS W/FLANGE

● 70S2-01-A-05-S	5	3-15	3-60VDC	10M6453	22.60	21.51	20.52
● 70S2-02-A-05-S	5	9-30	3-60VDC	10M6455	23.02	22.28	21.58
● 70S2-04-B-06-S	6	3-30	24-140VAC	17M8460	23.03	21.50	20.19
● 70S2-04-C-06-S	6	3-30	24-280VAC	10M6463	32.51	29.93	28.54
● 70S2-04-B-12-S	12	3-30	24-140VAC	14M6825	19.23	17.48	16.03
● 70S2-04-C-12-S	12	3-30	24-280VAC	10M6466	18.16	16.59	15.51
● 70S2-05-C-12-S	12	6-30	24-280VAC	10M6471	25.32	24.68	23.91
● 70S2-03-B-25-S	25	3-30	24-140VAC	10N9137	34.65	33.78	32.73
● 70S2-03-C-25-S	25	3-30	24-280VAC	10M6457	33.82	32.15	30.18

PANEL MOUNT SOLID-STATE RELAYS



High reliability, opto-isolated solid-state AC output relays enable switching of AC loads up to 125A and DC output models to switch loads up to 40A VDC. LED lamp indicators. AC output has back-to-back SCRs. Isolation voltage: 4000VAC std. (input to output). Temperature range: -30°C to +80°C. Input current DC: 14mA @ 5VDC. Input current AC: 8.5mA @ 120VAC, 22mA @ 240VAC. Leakage current: 8mA @ 120VAC, 10mA max. @ 240VAC. Dimensions: 2.250L x 1.750W x 0.996H. UL recognized file No. E52197.



CONTINUED

PANEL MOUNT SOLID-STATE RELAYS (CONT.)

SCREW TERMINALS / SAFETY COVER

Mfg. Part No.	Dual Marked	Load Current (A)	Output Voltage	Control Voltage	Stock No.	Price Each	
						1-14	15-49
● 6210AXXSZS-AC90	W6210ASX-1	10	24-280VAC	90-280VAC	10M6324	26.36	
● 6225AXXSZS-AC90	W6225ASX-1	25	24-280VAC	90-280VAC	10M6329	34.30	
● 6250AXXSZS-AC90	W6250ASX-1	50	24-280VAC	90-280VAC	10M6334	41.75	
● 6475AXXSZS-AC90	W6475ASX-1	75	48-560VAC	90-280VAC	23C1283	80.78	
● 6690AXXSZS-AC90	W6690ASX-1	90	48-660VAC	90-280VAC	18C1281	82.94	
● 66125AXXSZS-AC90	W66125ASX-1	125	48-660VAC	90-280VAC	18C1280	98.99	
● 6210AXXSZS-DC3	W6210DSX-1	10	24-280VAC	3-32VDC	10M6325	23.87	
● 6225AXXSZS-DC3	W6225DSX-1	25	24-280VAC	3-32VDC	10M6330	27.28	
● 6250AXXSZS-DC3	W6250DSX-1	50	24-280VAC	3-32VDC	48F4397	69.39	
● 6475AXXSZS-DC3	W6475DSX-1	75	48-560VAC	3-32VDC	23C1272	98.83	
● 6690AXXSZS-DC3	W690DSX-1	90	48-600VAC	3-32VDC	10M6338	80.26	
● 66125AXXSZS-DC3	W66125DSX-1	125	48-660VAC	3-32VDC	18C4142	86.68	

MOSFET OUTPUT

Mfg. Part No.	Dual Marked	Load Current (A)	Output Voltage	Control Voltage	Stock No.	Price Each	
						1-14	15-49
● 6312AXXMDS-DC3	W6212DDX-1	12	3-200VDC	3.5-32VDC	10M6328	19.32	
● 6325AXXMDS-DC3	W6225DDX-1	25	3-200VDC	3.5-32VDC	10M9738	58.99	
● 6340AXXMDS-DC3	W6240DDX-1	40	3-200VDC	3.5-32VDC	17M8254	55.97	

SOLID-STATE RELAYS



- Protective cover for greater safety
- Built-in varistor effectively absorbs external surges
- Operation indicator enables monitoring operation
- 5 to 90A output current
- Screw terminals

Just Added



The G3NA is an industry standard "hockey puck" style, solid state relay. Ideal for industrial switching applications where long life, heavy duty loads and fast switching speed are required. Standard operation indicator. Output load current can be significantly increased with a mfg. part no. Y92B heat sink. Dimensions: 2.28 x 1.69 x 1.06" (58 x 43 x 27). -UTU models are also VDE (TUV) approved. Additional models available; go online or call.

AC INPUT

Mfg. Part No.	Load Current (A)	Output Voltage (VAC)	Input Voltage (VAC)	Stock No.	Price Each		
					1-24	25-49	50-99
● G3NA-205B-AC100-120	5	24-240	100-120	31C6828	23.80	21.42	
● G3NA-D210B-AC100-240	10	5-200	100-240	92B8846	35.86	32.28	
● G3NA-210B-AC100-120	10	24-240	100-120	17M6659	25.18	22.66	
● G3NA-225B-DC5-24	25	24-240	5-24	17M6662	20.83	20.12	
● G3NA-240B-AC100-120	40	100-120	100-120	90M0351	36.17	34.93	
● G3NA-275B-UTU-AC100-240	75	24-240	100-240	45J4055	78.40	70.56	
● G3NA-475B-UTU-AC100-240	75	200-480	100-240	45J4059	91.46	82.32	
● G3NA-290B-UTU-AC100-240	90	24-240	100-240	45J4057	110.33	99.30	
● G3NA-490B-UTU-AC100-240	90	200-480	100-240	17M6667	100.17	90.16	

DC INPUT

Mfg. Part No.	Load Current (A)	Output Voltage (VAC)	Input Voltage (VDC)	Stock No.	Price Each		
					1-24	25-49	50-99
● G3NA-205B-DC5-24	5	24-240	5-24	02C6833	18.92	17.03	
● G3NA-210B-UTU-DC5-24	10	24-240	5-24	89C5635	17.04	16.46	
● G3NA-210B-DC5-24	10	24-240	5-24	17M6660	19.35	17.42	
● G3NA-D210B-DC5-24*	10	5-200	5-24	90M0350	34.51	31.07	
● G3NA-220B-DC5-24	20	24-240	5-24	17M6661	24.52	22.07	
● G3NA-225B-AC100-120	25	24-240	100-120	17M6663	30.31	27.28	
● G3NA-240B-DC5-24	40	24-240	5-24	17M6665	39.19	35.28	
● G3NA-275B-UTU-DC524	75	24-240	5-24	45J4056	64.91	62.69	
● G3NA-475B-UTU-DC5-24	75	200-480	5-24	45J4060	88.60	83.08	

*DC Output Voltage

HEATSINKS

Mfg. Part No.	For Use With	Stock No.	Price Each	
			1-24	25-49
● Y92B-A150N	G3NA Series 40A Relays	89C8822	21.20	19.08
● Y92B-A100	G3NA Series 10 and 20A Relays	17M8256	14.70	13.23

SOLID-STATE PANEL-MOUNT RELAYS • SOLID-STATE DIN MOUNT RELAYS

SOLID-STATE RELAYS

Just Added



OPTO 22



Standard Case



Plastic Case

- 4,000V optical isolation input to output
- Zero voltage turn-on
- Turn-on/turn-off time: 1/2 cycle maximum
- Operating frequency: 25 to 65Hz (operates at 400Hz with six times off-state leakage)
- Coupling capacitance input to output: 8pF maximum

- DV/DT off-state: 200 volts per microsecond
- DV/DT commutating: snubbed for rated current at 0.5 power factor
- TTL compatible
- Operating temperature range: -40°C to +100°C
- UL recognized, CSA certified, CE compliant

DC CONTROLLED SERIES

Mfg. Part No.	Nominal Line Voltage (VAC)	Nominal Current (A)	1-Cycle Surge (A) Peak	Operating Voltage Range (VAC)	Stock No.	Price Each
● 120D3	120	3	85	12-140	96F1083	16.83
● 120D10	120	10	110	12-140	96F1081	24.31
● 120D25	120	25	250	12-140	18M9771	26.18
● 120D45	120	45	650	12-140	18M9772	37.40
● 240D3	240	3	85	24-280	18M9784	16.83
● 240D10	240	10	110	24-280	96F1061	24.31
● 240D110	240	10	110	24-280	14M9232	27.30
● 240D10-17	240	10	110	24-280	96F6098	46.05
● 240D25	240	25	250	24-280	18M9782	28.05
● 240D125	240	25	250	24-280	52M1720	30.09
● 240D25-17	240	25	250	24-280	18M9783	30.86
240D25-18	240	25	250	24-280	75K1885	29.21
240D30-HS	240	30	250	24-280	12N4081	109.20
● 240D45	240	45	650	24-280	18M9785	39.27
● 240D145	240	45	650	24-280	14M9234	42.55
● 240D45-17	240	45	650	24-280	18M9786	41.14
● 380D25	380	25	800	24-420	18M9790	36.40
● 380D45	380	45	650	24-420	96F6491	47.32

TRANSIENT PROOF DC CONTROLLED SERIES

● 480D10-12	480	10	110	100-530	18M9793	33.66
● 480D15-12	480	15	150	100-530	96F6493	36.40
● 480D25-12	480	25	250	100-530	18M9794	32.76
● 480D45-12	480	45	650	100-530	18M9795	40.04
● 575D15-12	575	15	150	100-600	96F6479	44.25
575D30-HS	575	30	300	100-600	06R5673	65.94
● 575D45-12	575	45	650	100-600	18M9796	51.52
● 575D145-12	575	45	650	100-600	14M9235	47.32

AC CONTROLLED SERIES

● 120A10	120	10	110	12-140	18M9769	27.12
● 120A25	120	25	250	12-140	18M9770	28.05
● 240A10	240	10	110	24-280	18M9780	28.05
● 240A25	240	25	250	24-280	96F1086	33.66

DC SSR'S

● DC60S3	60	3	5	5-60	18M9068	14.96
● DC60S5	60	5	10	5-60	18M9069	22.40

Z SERIES SOLID STATE RELAYS

● Z120D10	120	10	110	12-140	18M9765	24.72
● Z240D10	240	10	110	24-280	18M9766	17.26
● Z240D10-17	240	10	110	24-280	18M9767	18.27

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each
● SAFETY COVER	Safety Cover for All Power Series Solid-State Relays	51M9003	2.45

(3749)

P&B SOLID-STATE RELAYS

Just Added



Tyco Electronics



SSRT series relays have TRIAC output and are controlled by an optoelectronic coupler. Intended for use as an On/Off switch for loads through 25 amps. EMI and RFI are greatly reduced due to zero voltage turn-on and zero current turn-off of the load. SPST-NO contacts. Plastic case is UL rated self-extinguishing. 400V rms isolation. Overall height: 0.87". Line voltage: 24-280VAC.

SSR series have medium/high power, 120/240VAC, 47-70Hz inverse parallel SCR output solid-state relay and are controlled by an opto electronic coupler. Intended for use as On/Off switch for loads through 110 amps. Line voltage: 24-280VAC. SPST-NO contacts. 400Vrms isolation. Zero voltage turn-on except "R" suffix, which is random voltage turn-on. UL recognized.

TRIAC OUTPUT

Mfg. Part No.	Control Voltage	Switching Current (A _{RMS})	Stock No.	Price Each		
				1-24	25-49	50-99
● SSRT-240A10	90-280VAC	.05-10	18M9337	30.98	28.42	26.78
● SSRT-240A25	80-280VAC	.05-25	18M9338	50.04	43.79	39.62
● SSRT-240D10	3-32VDC	.05-10	29M9964	27.76	25.44	24.00
● SSRT-240D25	3-32VDC	.05-25	76M8682	33.42	30.63	28.26

SCR OUTPUT

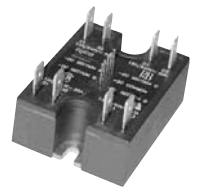
SSR-240A25.	90-280VAC	.05-25	89F945	49.88	45.72	42.98
● SSR-240A50	90-280VAC	.05-25	29M9963	69.10	63.36	59.57
● SSR-240D25	3-32VDC	.05-25	89F948	37.14	33.93	31.81
● SSR-240D25R	3-32VDC	.05-25	18M9336	39.08	35.81	33.78
● SSR-240D50	3-32VDC	.05-50	26M8310	52.18	47.85	45.12
● SSR-480D25	3-32VDC	.10-25	92B8196	63.62	60.34	58.70
SSR-480D125.	3-32VDC	.05-125	92F7746	79.89	73.21	69.07

(3301)

P&B DUAL AND QUAD AC OUTPUT SOLID-STATE RELAYS



Tyco Electronics



SSRD series relays comprise 2 totally independent, optically-isolated, inverse parallel SCR output solid-state relays in 1 standard package. Used as 2 On/Off switches for loads through 25 amps. 2 x SPST-NO. 2500Vrms isolation. Overall dimensions: 2.25" L x 1.75" W x 1.26" H. SSRQ series relay comprises 4 independent, optically-isolated, triac output solid-state relays in 1 package. Used as 4 On/Off switches for loads through 20A. 4 x SPST-NO. 250Vrms isolation. Overall dimensions: 2.3" L x 1.75" W x 1.225" H. Line voltage: 24-280VAC. Input voltage: 4-15VDC. Both are UL recognized for industrial applications.

SSRD SERIES - DUAL AC OUTPUT

Mfg. Part No.	Line Voltage (VAC)	Input Voltage (VDC)	Switching Current @ 25°C (A _{RMS})	Stock No.	Price Each
● SSRD-240D25	24-280	4-15	25	26M8311	73.95
SSRD-240D40.	24-280	4-15	40	89F961	95.85

SSRQ SERIES - QUAD AC OUTPUT

SSRQ-240D20.	24-280	4-15	20	89F959	95.63
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(3303)

PROPAK™ AC OUTPUT RELAYS



crydom



- Zero-cross (resistive loads) or random-fire (inductive/phase-control loads) output
- SCR output for heavy industrial loads
- LED input status indicator
- Optically isolated
- Box clamp terminals for easy installation

Relays feature status indicating LED and "fingerproof" easy-to-use input and output cage-type terminals. All types are panel mount and offer zero-cross switching. For random-fire output add "-10" to mfg. part no. suffix. CMD series have 3-32VDC control. CMA series have 10-140VAC control. ISO 9002 certified. Dimensions: 3.0 (76.2) L x 1.75 (44.5) W x 1.15 (29.2).

DC CONTROL 240VAC OUTPUT (24-280V_{RMS})

Mfg. Part No.	Load Current (A _{RMS})	1-Cycle Surge (A _{pk})	Stock No.	Price Each			
				1-14	15-24	25-49	50-99
● CMD2425	0.15-25	250	03M5685	39.45	37.65	36.08	34.52
● CMD2450	0.15-50	625	83F4376	45.54	43.47	41.65	39.84

DC CONTROL 480VAC OUTPUT (48-530V_{RMS})

● CMD4825	0.15-25	250	16M2413	49.18	46.94	44.99	43.03
● CMD4850	0.15-50	625	03M5687	54.02	51.56	49.41	47.27

➤ CONTINUED ➤

New products added weekly

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(148886)

SOLID-STATE DIN MOUNT RELAYS

PROPAK™ AC OUTPUT RELAYS (CONT.)

DC CONTROL 480VAC OUTPUT (48-530V _{RMS})				Price Each			
Mfg. Part No.	Load Current (A _{RMS})	1-Cycle Surge (Apk)	Stock No.	1-14	15-24	25-49	50-99
● CMD4890	0.15-90	1200	03M5688	84.38	80.54	77.19	73.83
● CMD48125	0.15-125	1750	03M5686	96.15	91.78	87.96	84.13
DC CONTROL 600VAC OUTPUT (48-660V _{RMS})				Price Each			
● CMD6050	0.15-50	625	83F4391	56.48	53.92	51.67	49.42
AC CONTROL 240VAC OUTPUT (24-280V _{RMS})				Price Each			
● CMA2425	0.15-25	250	03M5684	41.89	39.99	38.32	36.66
● CMA2450	0.15-25	625	48F936	47.00	44.86	42.99	41.12
AC CONTROL 480VAC OUTPUT (48-530V _{RMS})				Price Each			
● CMA4850	0.15-50	625	76K3908	60.56	56.90	54.57	51.57

(28129)

COOLPAK™ AC OUTPUT RELAYS

- Integral heat sink design
- SCR output for heavy industrial loads
- Zero-cross (resistive loads) or random-fire (inductive/phase-control loads) output
- LED input status indicator
- Finger-proof easy-to-use input and output cage-type terminals



crydom



Control voltage 90-140Vrms for CMRA and 4-32VDC for CMDR. All types are ISO 9002 certified.

AC CONTROL 240VAC OUTPUT (24-280V _{RMS})				Price Each			
Mfg. Part No.	Load Current (A _{RMS})	One-Cycle Surge (Apk)	Stock No.	1-14	15-24	25-49	50-99
● CMRA2435	0.15-35	0.25	03M5689	70.05	66.87	64.08	61.30
● CMRA2445	0.15-45	0.625	48F954	64.64	62.53	61.69	...
● CMRA2455	0.25-55	1	48F955	90.22	86.12	82.53	78.94
● CMRA2465	0.25-65	1.2	48F956	103.63	98.92	94.80	90.68
AC CONTROL 480VAC OUTPUT (48-530V _{RMS})				Price Each			
● CMRA4835	0.15-35	0.25	48F957	72.85	69.54	66.64	63.74
● CMRA4845	0.15-45	0.625	03M5690	78.08	74.53	71.42	68.32
● CMRA4855	0.25-55	1	48F959	93.81	89.55	85.82	82.09
● CMRA4865	0.25-65	1.2	48F960	107.79	102.89	98.60	94.31
AC CONTROL 600VAC OUTPUT (48-660V _{RMS})				Price Each			
● CMRA6045	0.15-45	0.625	48F962	81.07	77.38	74.16	70.94
● CMRA6055	0.25-55	1	48F963	97.35	92.92	89.05	85.18
● CMRA6065	0.25-65	1.2	48F964	111.89	106.80	102.35	97.90
AC CONTROL 600VAC OUTPUT (48-660V _{RMS})				Price Each			
● CMRA6035	0.15-35	0.25	76K3909	75.58	72.14	69.14	66.13
DC CONTROL 240VAC OUTPUT (24-280V _{RMS})				Price Each			
● CMDR2435	0.15-35	0.25	03M5691	67.13	64.08	61.41	58.74
● CMDR2445	0.15-45	0.625	03M5692	72.18	68.90	66.03	63.16
● CMDR2455	0.25-55	1	03M5693	87.26	83.30	79.83	76.36
● CMDR2465	0.25-65	1.2	03M5694	100.71	96.13	92.13	88.12
DC CONTROL 480VAC OUTPUT (48-530V _{RMS})				Price Each			
● CMDR4835	0.15-35	0.25	03M5695	69.89	66.72	63.94	61.16
● CMDR4845	0.15-45	0.65	03M5696	75.12	71.71	68.72	65.73
● CMDR4855	0.25-55	1	03M5697	90.84	86.71	83.10	79.48
● CMDR4865	0.25-65	1.2	03M5698	104.85	100.08	95.91	91.74
DC CONTROL 600VAC OUTPUT (48-660V _{RMS})				Price Each			
● CMDR6035	0.15-35	0.25	03M5699	72.64	69.34	66.45	63.56
● CMDR6045	0.15-45	0.625	83F4403	78.08	74.53	71.42	68.32
● CMDR6055	0.25-55	1	83F4404	94.43	90.14	86.38	82.63
● CMDR6065	0.25-65	1.2	03M5700	108.95	104.00	99.66	95.33

(32983)

DIN MOUNT SOLID-STATE RELAYS



crydom



RoHS Compliant Available

- Integral heat-sink eliminates need for thermal calculations
- 22.5mm DIN mount package
- Current ratings up to 30A at 660VAC
- SCR output for heavy industrial loads
- "Fingerproof" easy-to-use input and output cage-type terminals
- LED status indicator

The CKRD and CKRA series feature zero-cross switching. Options include: random turn-on, add suffix "R" to mfg. part no., and internal transient voltage protection, add suffix "P" to mfg. part no. CMDR series have a 4.5 - 32VDC control. CKRA series have a 90 - 280VAC control and are also available with a 24VAC control, go online or call.

240VAC OUTPUT (24-280V _{RMS})				Price Each			
Mfg. Part No.	Load Current (A _{RMS})	One-Cycle Surge (Apk)	Stock No.	1-14	15-24	25-49	50-99
● CKRD2410	0.15-10	120	03M5677	41.21	39.33	37.69	36.06
● CKRD2420	0.15-20	250	03M5678	44.09	42.09	40.33	38.58
● CKRD2420P	0.15-20	250	03M5679	44.94	42.89	41.11	39.32
● CKRD2430	0.15-30	625	03M5680	47.01	44.88	43.01	41.14
● CKRD2430P	0.15-30	625	10M5142	47.86	45.68	43.78	41.88
480VAC OUTPUT (48-530V _{RMS})				Price Each			
● CKRD4810	0.15-10	120	03M5681	49.61	47.33	45.23	43.33
● CKRD4820	0.15-20	250	03M5682	51.92	49.56	47.50	45.43
● CKRD4830	0.15-30	625	03M5683	55.34	52.82	50.62	48.42
240VAC OUTPUT (24-280V _{RMS})				Price Each			
● CKRA2410	0.15-10	120	03M5673	44.07	42.07	40.32	38.57
● CKRA2430P	0.15-30	625	03M5674	54.62	52.13	49.96	47.79
480VAC OUTPUT (48-530V _{RMS})				Price Each			
● CKRA4810	0.15-10	250	18C4243	50.34	48.05	46.05	44.05
● CKRA4830	0.15-30	625	03M5675	59.51	56.89	54.36	52.02
● CKRA4830P	0.15-30	625	03M5676	60.90	58.13	55.71	53.29

(58671)

SOLID STATE RELAY ASSEMBLIES

RoHS Compliant Available

Crouzet
More than a standard



DR7111



DR454121.3

- Features:**
- DIN Rail Mount SSR / Heat Sink Assemblies
 - No Heat Sink Calculations Required
 - Built-In Transient Protection
 - LED Input Status Indicator
 - With or Without IP20 Touch-Safe Housing
 - AC or DC Inputs
 - SSR's are UL / CSA / TuV Approved
 - CE Certified & EMC Compliant

- Specifications:**
- Standard Ratings up to 45A @ 660Vac
 - 4000Vac Optical Isolation
 - Operating temperature: -30° to 80°C
 - Operating Frequency: 47 to 63Hz
 - Housing Material: UL94V-0

AC INPUT—STANDARD IPOO HOUSING							Price Each	
Mfg. Part No.	No. of Phases	Load Current (A)	Input Voltage (VAC)	Output Voltage (VAC)	Stock No.	1-5	6-14	
● DR4111	1	16	90-250	48-660	55M5274	62.83	60.76	
● DR454121.3	1	26	90-250	48-660	55M5276	112.58	108.86	
● DR24121	2	45	90-250	48-660	36M2331	213.93	203.75	
● DR34121	3	30	90-250	48-660	55M5272	270.12	257.26	
AC INPUT—IP20 TOUCH-SAFE HOUSING							Price Each	
● DR7111	1	16	90-250	48-660	55M5279	64.21	62.07	
● DR457121.3	1	26	90-250	48-660	55M5278	114.08	110.29	
● DR27121	2	45	90-250	48-660	55M5271	199.53	192.76	
● DR37121	3	30	90-250	48-660	55M5273	274.83	261.74	
DC INPUT—STANDARD IPOO HOUSING							Price Each	
Mfg. Part No.	No. of Phases	Load Current (A)	Input Voltage (VDC)	Output Voltage (VAC)	Stock No.	1-5	6-14	
● DR4110	1	16	4-32	48-660	10M6138	56.42	54.55	
● DR24120	2	45	4-32	48-660	55M5269	198.30	188.86	
● DR34120	3	30	4-32	48-660	54K3008	246.71	234.96	

CONTINUED

Current Order Status & History

Check the status of your current order or access past orders from our website under MY ACCOUNT eSuite. Log in or register today.

(148881)

SOLID-STATE DIN MOUNT RELAYS

SOLID STATE RELAY ASSEMBLIES (CONT.)

DC INPUT—IP20 TOUCH-SAFE HOUSING

Mfg. Part No.	No. of Phases	Load Current (A)	Input Voltage (VAC)	Output Voltage (VAC)	Stock No.	Price Each	
						1-5	6-14
● DR7110	1	16	4-32	48-660	22M3899	51.99	50.29
● DR454120.3	1	26	4-32	48-660	55M5275	105.00	101.50
● DR457120.3	1	26	4-32	48-660	55M5277	106.49	102.97
● DR27120	2	45	4-32	48-660	55M5270	185.16	178.88
● DR37120	3	30	4-32	48-660	54K3009	251.41	239.44

(107925)

HYBRID POWER RELAYS



- Silent operation
- 20A output (resistive only)
- Service life > 5 million operations at full load
- 17.5mm, DIN rail mount

The hybrid power relay is a power switching component. When the R.H.P. control input is active, an electronic switching component establishes the power circuit while absorbing transient peaks; a few milliseconds later, an electromechanical relay short-circuits the electronic component in order to maintain the circuit. There is therefore no power to be dissipated, hence no heat sink needs to be added. Likely causes of wear are absorbed by the electronic power component, providing optimum relay service life. When the control signal disappears, the opposite opening cycle occurs. **Dimensions (H x L x W):** 81mm x 65.5mm x 17.5mm.



Contactor function: Output closed when control voltage is present at input terminals; output open when no voltage is present at input terminals. The LED is lit when the output is active. **Day/Night function:** Output closed when control voltage is present at input terminals; output open when no voltage is present at input terminals. Pushbutton front used to select operating mode: Auto (LED lit); Forced operation (LED flashing); Stop (LED not lit).

Mfg. Part No.	Function	Control Voltage	Stock No.	Price Each	
				1-14	5-9
● 84138000	DC Input Contactor	4-32VDC	17M8516	83.21	
● 84138001	AC Input Contactor	90-260VAC	17M8517	80.45	
● 84138201	AC Input Day/Night	90-260VAC	25C4208	57.05	

(72425)

COOLTECH SOLID-STATE RELAYS



Crouzet's new CoolTech solid-state relays offer the latest in integral heat sink / SSR technology. Standard features include; an epoxy-free design, internal transient protection, DBC substrate, IP20 touch-safe housing, EMC compliance, and relay or contactor terminal configuration. The CoolTech is rated up to 30A @ 660Vac in a compact 22.5mm housing, or 45A in a 45mm housing.

22.5MM DIN RAIL

Mfg. Part No.	Control Voltage	Output Current (A)	Max. Output Voltage (VAC)	Terminal Configuration	Stock No.	Price Each	
						1-9	10-24
● GNR10DZH	4-32VDC	10	280	Relay	17M6639	53.00	50.92
● GNR10DCZ	4-32VDC	10	280	Contactor	17M6638	49.99	48.02
● GNR30DZH	4-32VDC	30	660	Relay	17M6645	63.33	60.81
● GNR30DCZ	4-32VDC	30	660	Contactor	17M6644	63.35	60.84
● GNR10BHZ	90-140VDC	10	280	Relay	17M6637	57.58	55.32
● GNR10BCZ	90-140VAC	10	280	Contactor	17M6636	51.34	49.30
● GNR30BHZ	90-140VAC	30	660	Relay	17M6643	71.47	68.64
● GNR30BCZ	90-140VAC	30	660	Contactor	17M6642	71.48	68.64

45MM DIN RAIL

● GNR35DZH	4-32VDC	35	660	Relay	17M6648	73.66	70.72
● GNR35BHZ	90-140VAC	35	660	Relay	17M6646	76.26	73.24
● GNR45DZH	4-32VDC	45	660	Relay	17M6652	81.04	77.86
● GNR45BHZ	90-140VAC	45	660	Relay	17M6650	88.55	85.04
● GNR35DCZ	4-32VDC	35	660	Contactor	17M6647	63.36	60.83
● GNR35BCZ	90-140VAC	35	660	Contactor	29K8047	76.28	73.24
● GNR45DCZ	4-32VDC	45	660	Contactor	17M6651	81.04	77.86
● GNR45BCZ	90-140VAC	45	660	Contactor	17M6649	83.89	80.62

▶ CONTINUED ▶

COOLTECH SOLID-STATE RELAYS (CONT.)

90MM THREE-PHASE DIN RAIL

Mfg. Part No.	Control Voltage	Output Current (A)	Max. Output Voltage (VAC)	Terminal Configuration	Stock No.	Price Each	
						1-9	10-24
● GNR25DCZ	4-32VDC	25	660	Contactor	17M6641	193.66	186.02
● GNR25BCZ	90-140VAC	25	660	Contactor	17M6640	197.50	189.68

(84668)

DUAL SOLID STATE RELAYS



Features:

- 25 or 40A dual AC output relays
- Output voltage from 48 to 280Vac
- Direct bond copper substrate
- Back to back dual SCR output
- Zero crossing or random turn on

Specifications:

- 4000Vac Optical Isolation
- Operating temperature: -40° to 80°C
- Operating Frequency: 47 to 63Hz
- Housing Material: UL94V-0



Mfg. Part No.	Load Current (A)	Input Voltage (VDC)	Output Voltage (VAC)	Switching	Stock No.	Price Each	
						1-4	5-9
● 84140003	25	4-15	-	Zero Cross	68K8659	53.72	52.22
● 84140510	25	17-32	48-660	Zero Cross	68K8669	77.27	73.59
● 84140603	40	4-15	48-660	Zero Cross	68K8675	60.89	59.07
● 84140213	40	17-32	24-280	Zero Cross	68K8664	54.22	52.60
● 84140611	40	17-32	48-660	Random	68K8677	88.57	84.35

(107928)

SIMM MODULAR INTERFACE RELAYS



- Compact 6.2mm wide package
- Ratings up to 6A @ 250VAC
- N.O., SPDT, Transistor or TRIAC Output
- LED input status indicator



Front panel marker strips, 2-position jumper, and 10-position jumper (red) also available, go online or call.

OUTPUT RELAYS

Mfg. Part No.	Output Type	Supply Voltage	Output Rating (A)	Stock No.	Price Each	
					1-14	15-24
84145001	Transistor	24VDC	0.5	89H7928	42.63	39.78
84145010	Transistor	5VDC	2	89H7931	37.14	34.66
84145011	Transistor	24VDC	2	89H7932	44.27	41.35
84145021	SCR	24VDC	0.5	89H7935	50.77	47.43
84145031	SCR	24VDC	1	89H7938	68.63	64.08
84145041	SPDT	24VDC	6	89H7939	26.66	24.82
84145042	SPDT	24VAC/DC	6	89H7940	34.88	32.83
84145043	SPDT	110VAC	6	89H7941	38.16	36.19
84145046	SPDT	230V	6	89H7942	38.17	36.21

INPUT RELAYS

84145061	SPDT	24VDC	0.05	89H7947	30.90	29.30
84145071	SPDT	24VDC	0.05	89H7951	37.24	35.05
84145004	Transistor	110V	0.5	89H7929	47.45	44.30
● 84145005	Transistor	230V	0.5	44P2233	51.02	48.59

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each	
			1-14	15-24
84145052	10 Position Jumper - Blue	89H7945	14.06	13.18

(79402)

TechCast® Product Training

Use the library of online training modules located on our homepage under Useful Tools, with specific guidance for complex solutions.

(148857)

SOLID-STATE DIN MOUNT RELAYS

SOLITRON SOLID-STATE RELAYS



- User friendly - just snap onto DIN rail
- Ideal alternative to mercury relays
- One or two-pole switching
- Two -and three-phase switching
- Zero-cross switching for resistive/motor loads
- Random switching available (RJ1B Series)
- Built-in snubber network-protection
- LED indication
- AC and/or DC control voltage
- Up to 70 A output current
- Higher rated outputs available upon request
- Up to 660 VAC switching
- Up to 1200 Vp non-repetitive voltage



Solid state relays with heat sinks integrated directly onto the relay provide an alternative to (environmentally hazardous) mercury relays. IP20 touch-safe cover is easily removed to facilitate connection via ring terminals. Touch-safe cover can quickly be snapped back into place. Mfg. part no. ending with the suffix "P" feature an integrated fan and over-temperature protection. Many additional sizes and ratings (including 75A and 90A) are available; go online and call

SINGLE POLE SCR OUTPUT—4-32VDC CONTROL

Mfg. Part No.	Size in mm (h x w x d)	Current (A)	Line Voltage (VAC)	Stock No.	Price Each	
					1-4	5-9
● RJ1A23D20U	80 x 23 x 103	20	24-265	05M4282	50.83	48.51
● RJ1A23D30U	80 x 23 x 103	30	24-265	05M4283	68.56	65.43
● RJ1A60D20U	80 x 23 x 103	20	42-660	05M4286	54.38	51.89
● RJ1A60D30U	80 x 23 x 103	30	42-660	05M4287	83.93	80.09
● RJ1A60D50U	80 x 45 x 103	50	42-660	01J3045	96.93	92.50

SINGLE POLE SCR OUTPUT—24-275VAC or 24-48VDC CONTROL

RJ1A23A20U	80 x 23 x 103	20	24-265	89C7834	50.83	48.51
● RJ1A23A30U	80 x 23 x 103	30	24-265	05M4281	68.56	65.43
● RJ1A60A20U	80 x 23 x 103	20	42-660	05M4284	54.38	51.89
● RJ1A60A30U	80 x 23 x 103	30	42-660	89C7838	83.93	80.09
● RJ1A60A50U	80 x 45 x 103	50	42-660	05M4285	99.29	94.76

DUAL SCR OUTPUT (2 POLE OUTPUT)—4-32VDC CONTROL

RJ2A48D12E	80 x 22.5 x 103	2 x 12A	42-530	71K9889	144.21	137.62
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3 PHASE (2 PHASE SWITCHING)—5-32VDC CONTROL

● RJ2A60D25	82 x 45 x 103	3 x 25A	40-660	05M4292	167.85	160.18
● RJ2A60D32	82 x 90 x 103	3 x 32A	40-660	05M4293	204.49	195.15

3 PHASE (2 PHASE SWITCHING)—24-275VAC & 24-190VDC CONTROL

● RJ2A60A25E	82 x 45 x 103	3 x 25A	40-660	05M4291	179.67	171.46
● RJ2A60A32E	82 x 90 x 103	3 x 32A	40-660	26K5051	218.67	208.68

3 PHASE (3 PHASE SWITCHING)—5-32VDC CONTROL

RJ3A22D32EP	122 x 45 x 103	3 x 32A	24-280	26K5066	250.59	239.14
● RJ3A60D20	84 x 45 x 103	3 x 20A	40-660	79K3472	185.58	177.10
● RJ3A60D25	84 x 45 x 103	3 x 25A	40-660	05M4300	215.13	205.30
● RJ3A60D32EP	122 x 45 x 103	3 x 32A	40-660	05M4301	283.68	270.72

3 PHASE (3 PHASE SWITCHING)—24-275VAC & 24-190VDC CONTROL

● RJ3A22A20E	82 x 45 x 103	3 x 20A	24-280	05M4294	185.58	177.10
● RJ3A60A20E	82 x 45 x 103	3 x 20A	40-660	05M4298	213.95	204.17

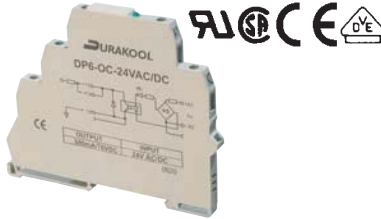
(34001)

DIN RAIL INDUSTRIAL RELAYS



Features:

- Relays DP6-0C - with transistor output, rated load up to 0.5A / 70VDC
- Relays DP6-1T - with triac output 1.2A / 400VAC
- Relays DP6-1P - with changeover relay, rated load 6A / 250V (AC1)
- 35mm DIN rail mount, EN 50022
- Adapted for the co-operation with interconnection strip type DG20
- DP6-0C adapted for the co-operation with interconnection strip type ZG20
- Equipped in LED green



Mfg. Part No.	Carry Current	Coil Voltage	Contacts	Stock No.	Price Each
					1-9
● DP6-0C-24VAC/DC	500mA	24VAC/DC	...	78M6780	38.25
● DP6-1T-24VAC/DC	1.2A	24VAC/DC	...	78M6784	38.73
● DP6-1P-24VAC/DC	6A	24VAC/DC	SPDT-C/O	78M6783	21.28
● DP6-1P-12VDC	6A	36VDC	SPDT-C/O	78M6782	21.28
● DP6-1P-115VAC/DC	6A	115VAC/DC	SPDT-C/O	78M6781	21.28

(107903)

8A-45A SOLID STATE DIN MOUNT RELAYS

Just Added



861 Modular Style



SSRDIN Style

861 Modular Style:

- 100% solid-state circuitry
- Enclosed heat sink for thermal management
- Internal snubber protects from transients
- Isolation of input and output terminals ensures no interference between separate circuits
- Flexible mounting: Mount to din rail or panel
- Dimensions: 3.5"L x 0.7"W x 2.6"H

SSRDIN Style:

- Integral heat sink for thermal management
- Internal snubber protects from transients
- Isolation of input and output terminals ensures no interference between separate circuits
- Flexible mounting: Mount to din rail or panel
- Dimensions: 3.15"L x 0.88"W x 3.8"H (10-30A); 3.1"L x 1.79"W x 4.2"H (45A)

861 MODULAR STYLE SCR OUTPUT, ZERO CROSS SWITCHING

Mfg. Part No.	Input Voltage	Output Voltage	Contacts	Load Current (A)	Stock No.	Price Each
						1-4
● 861SSR210-AC-1	90-280VAC	24-280VAC	SPST-NO	10	30M2666	40.01
● 861SSRA208-AC-1	90-280VAC	24-280VAC	SPST-NO	8	30M2662	50.20
● 861SSR410-AC-1	90-280VAC	28-480VAC	SPST-NO	10	35M3567	42.50
● 861SSR210-DC-1	3-32VDC	24-280VAC	SPST-NO	10	30M2667	32.94
● 861SSRA208-DC-1	3-32VDC	24-280VAC	SPST-NO	8	30M2663	24.74
● 861SSR210-DC-2	3-32VDC	24-280VAC	SPST-NO	10	35M3565	34.28
● 861SSR210-DC-4	3-32VDC	24-280VAC	SPST-NC	10	35M3566	52.22
● 861SSR410-DC-1	3-32VDC	48-480VAC	SPST-NO	10	35M3568	33.75
● 861SSR115-DD	3.5-32VDC	3-50VDC	SPST-NO	15	30M2664	37.46
● 861SSR208-DD	3.5-32VDC	3-150VDC	SPST-NO	8	30M2665	41.38

SSRDIN STYLE

SCR OUTPUT, ZERO CROSS SWITCHING

SSR210DIN-AC22	90-280VAC	24-280VAC	SPST-NO	10	08R2596	61.16
SSR220DIN-AC22	90-280VAC	24-280VAC	SPST-NO	20	08R2598	72.62
SSR230DIN-AC22	90-280VAC	24-280VAC	SPST-NO	30	08R2600	83.45
SSR245DIN-AC45	90-280VAC	24-280VAC	SPST-NO	45	08R2602	114.66
SSR210DIN-DC22	4-32VDC	24-280VAC	SPST-NO	10	08R2597	61.16
SSR220DIN-DC22	4-32VDC	24-280VAC	SPST-NO	20	08R2599	72.62
SSR230DIN-DC22	4-32VDC	24-280VAC	SPST-NO	30	08R2601	83.45
SSR245DIN-DC45	4-32VDC	24-280VAC	SPST-NO	45	08R2603	114.66

MOSFET OUTPUT, DC SWITCHING

SSR310DIN-DC22*	4-32VDC	0-60VDC	SPST-NO	10	08R2604	109.57
SSR320DIN-DC22*	4-32VDC	0-60VDC	SPST-NO	20	08R2605	126.13
SSR330DIN-DC22*	4-32VDC	0-60VDC	SPST-NO	30	08R2606	137.60

* UL and CSA not available on MOSFET versions. (88871)

G3PA/G3PB SOLID STATE RELAYS



G3PA and G3PB single-phase models feature built-in heat sink for increased service life and reliability for circuits that cycle frequently. Voltage turn-on at zero crossing reduces initial inrush and load currents. G3PA has replaceable triac output cartridge (order replacement cartridges below). Control power LED indicator. DIN rail mountable. Conforms to UL, CSA, and CE.

G3PA/G3PB SINGLE-PHASE RELAYS

Mfg. Part No.	Output Volts	Load Current Max. (A)	Stock No.	Price Each	
				1-4	5-14
G3PA-420B-VD DC12-24	180-480	20	89H3731	130.48	120.94
● G3PB-215B-VD DC12-24	100-240	15	12C1125	47.88	44.37
● G3PB-225B-VD DC12-24	100-240	25	12C1130	55.32	51.27

➔ CONTINUED ➔

SOLID-STATE DIN MOUNT RELAYS • ELECTROMECHANICAL DIN MOUNT RELAYS


G3PA/G3PB SOLID STATE RELAYS (CONT.)

G32A TRIAC CARTRIDGES

Mfg. Part No.	Output Volts	Load Current Max. (A)	Stock No.	Price Each	
				1-4	5-14
G32A-A40VD DC524	...	40	38B471	67.03	62.13
G32A-A60VD DC524	...	60	38B474	105.55	97.83
G32AA420VDC1224	...	20	66J9079	106.42	98.64

(88114)

Mounting products on DIN rail?
See our selection of DIN rails and accessories



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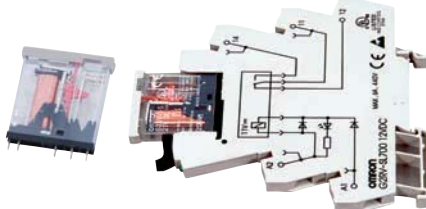
See page 2259 in Enclosures, Boxes, Racks & Thermal Mgt

(89495)

6MM DIN MOUNT RELAYS



- Mechanical indicator
- Transparent housing
- Strong mechanical pin
- Optional LED
- Green LED indicator
- SPDT contacts
- Switching voltage max: 400VAC
- Switching current max: 6A
- Switching power: 1500VA/180W



Incorporates a strong mechanical pin to avoid bending during replacement, while large contact surface ensures reliable connection between socket and relay. Dimensions: 92.5W x 107H x 6.2T mm. Cross bars series P2RV available in various colors and number of poles; go online or call.

RELAYS

Mfg. Part No.	Coil Voltage	Terminal	Stock No.	Price Each		
				1-24	25-49	50-99
● G2RV-1-S-DC11	12VDC	Plug-In	93K6105	7.40	6.66	5.92
● G2RV-1-S-DC21	24VDC	Plug-In	93K6106	6.88	6.44	6.14
● G2RV-1-S-DC48	48VDC	Plug-In	93K6107	7.30	6.86	6.55

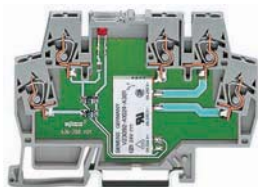
RELAY / SOCKET COMBINATION

● G2RV-SL700-AC/DC48	48VAC/VDC	Screw	93K6100	19.36	18.14	17.32
● G2RV-SL700-AC110	110VAC	Screw	93K6101	21.96	20.59	19.68
● G2RV-SL700-AC230	230VAC	Screw	93K6102	21.96	20.59	19.68
● G2RV-SL700-DC12	12VDC	Screw	93K6103	19.27	17.35	15.36
● G2RV-SL700-DC24	VDC	Screw	93K6104	22.64	20.39	18.05
● G2RV-SL500-AC/DC24	24VAC/VDC	Push-In	39M4639	18.86	17.68	16.90
● G2RV-SL500-AC/DC48	48VAC/VDC	Push-In	39M4640	20.55	19.26	18.40
● G2RV-SL500-AC110	110VAC	Push-In	39M4641	22.56	21.15	20.21
● G2RV-SL500-AC230	230VAC	Push-In	39M4642	22.56	21.15	20.21
● G2RV-SL500-DC12DC11	12VDC	Push-In	39M4643	23.25	20.94	18.54
● G2RV-SL500-DC24 (DC21)	24VDC	Push-In	39M4644	27.01	24.32	21.54

(88884)

859 SERIES SLIM RELAYS

DIN-rail mounted relays feature slim 6mm wide package, jumper system, marking system and switch status indication. 1 changeover contact, SPDT. Wire size: 28-14 AWG. Switching current/voltage up to 5A/250V.



Mfg. Part No.	Coil Voltage	Stock No.	Price Each	
			1-24	25-99
● 859-302	5VDC	04M4817	26.27	24.24
● 859-303	12VDC	28K2321	26.27	24.24
● 859-304	24VDC	04M4818	23.38	21.57
● 859-353	12V AC/DC	79K2249	36.13	33.34
● 859-354	24V AC/DC	04M4819	27.19	25.09
● 859-357	115V AC/DC	12M6719	34.59	31.92

(84734)

788 SERIES PLUGGABLE RELAY MODULES



DIN-rail mount relays feature CAGE CLAMP® technology with up to 16A and 250V of switching power. Relays are 15mm pluggable. Allow for addition of switch status indication, free-wheeling diode. Dual jumper slots plus separation between coil and load side. Includes relay, terminal base and plug-in status indicator.

SPDT RELAYS w/TERMINAL BASE

Mfg. Part No.	Coil Voltage	Wire Size (AWG)	Stock No.	Price Each	
				1-24	25-99
● 788-303	12VDC	22-12	04M4794	14.34	13.18
● 788-304	24VDC	22-12	28K2303	14.34	13.18
● 788-506	24VAC	22-12	04M4796	16.58	15.23
● 788-507	115VAC	22-12	28K2305	18.82	17.29

ACCESSORIES

Mfg. Part No.	Description	Rating (A)	Stock No.	Price Each	
				1-24	25-99
● 788-120	Plug-in status indicator w/diode	12VDC	28K2298	3.54	3.26
● 788-113	2-way Comb push-in jumper	...	79K2241	0.94	0.87

(84750)

857 SERIES PLUGGABLE RELAYS

Just Added



- Features:
- Industries smallest pitch, reduces panel space
 - Pluggable relays for easy placement
 - Flexible jumpering system eliminates redundant wiring
 - Safe operation with three-way isolation (2.5kV)

- Specifications:
- Module width: 6.0mm
 - Input voltage range: VN -15 % to +20 %
 - Max. switching voltage: 250VAC
 - Max. continuous current: 6A
 - Ambient temperature: -25°C to +50°C



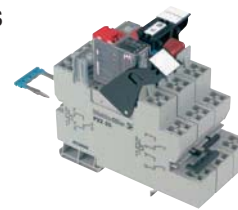
Mfg. Part No.	Coil Voltage	Stock No.	Price Each
			1-24
● 857-303	12VDC	08N1396	26.02
● 857-304	24VDC	96M0187	18.37
● 857-354	24V AC/DC	59P3142	26.92
● 857-357	115V AC/DC	58P0634	23.31
● 857-358	230V AC/DC	59P3143	34.26

(142241)

PLUGGABLE RELAYS



- Designed to Shorten Installation and Maintenance Time
- Robust Locking/Release Lever Provides Relay Retention



Jumping capability for common coil connections or contacts between relay modules.

FULLY ASSEMBLED SOCKET WITH RELAY

Mfg. Part No.	Coil Voltage	Contacts	Output Voltage (V)	Output Current (A)	Stock No.	Price Each
						1-24
● 8530630000	24VDC	DPDT	250/2	8	90C1025	16.80

REPLACEMENT RELAYS

Mfg. Part No.	Coil Voltage	Contacts	Output Current (A)	Stock No.	Price Each
					1-24
● 4058570000	24VDC	DPDT	8	45J3226	5.36

(72822)

ELECTROMECHANICAL DIN MOUNT RELAYS • MERCURY DISPLACEMENT RELAYS

6.1mm MICRO RELAYS



- Compact Design
- Pluggable

Use standard jumpers.

Mfg. Part No.	Coil Voltage	Contacts	Clamp	Stock No.	Price Each
					1-24
● 8533640000	24VDC	SPDT	Screw	71C9332	19.71
● 8533660000	24VDC	SPDT	Tension	94C3839	19.71

(72823)

FLARE SERIES 6.2mm WIDE RELAY/TERMINAL BLOCKS



DIN rail mount Flare series terminal block relay combinations provide a means of isolating the PLC or controller from the process. The Flare series is available in mechanical, solid-state and multifunction relays. Multifunction relay features DIP switch selection for daily operation (on-delay, one-shot, cycle-on, cycle off and off-delay operation) and the time range settings (0.1-1.2 sec., 0.4-5 sec., 3.5-40 sec. and 30-300 sec.). Coil and contact wiring on opposite sides of the block for clear visual separation. 4kV electrical isolation. 10 AWG solid or 12 AWG stranded max. wiring size. Order mfg. part no. Z8.000.0200.8 insulated jumpers for -Vcc bridging separately; go online or call.

MECHANICAL RELAYS WITH SCREW CLAMP

Mfg. Part No.	Input	Output Voltage		Output Current	Stock No.	Price Each
		Minimum	Maximum			1-24
● 80.010.4000.0	24VDC	24V/8mA	250V AC/DC	6A	02M0649	34.02
● 80.010.4131.0	110V AC/DC (+10%/−15%)	...	250V AC/DC	6A	02M0650	56.88
● 80.010.4141.0	230V AC/DC (+10%/−15%)	...	250V AC/DC	6A	04M6774	56.88

MECHANICAL RELAYS WITH SCREW CLAMP

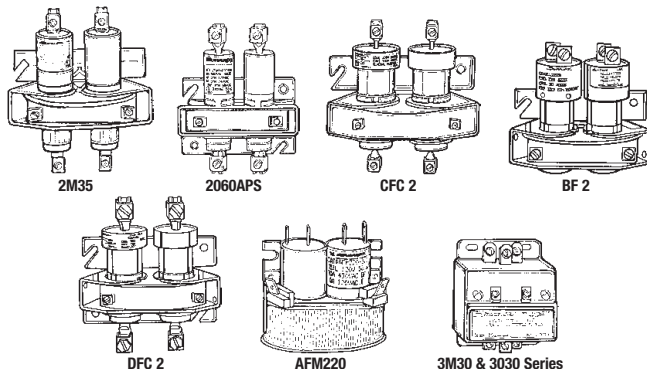
Mfg. Part No.	Input	Output Voltage	Output Current	Stock No.	Price Each
					1-24
● 80.020.4101.0	24VDC	48VDC	2A	02M0652	63.38
● 80.020.4100.0	24VDC	48VDC	0.5A	02M0651	56.89

TIMER AND MULTIFUNCTION RELAYS WITH SPRING CLAMP

Mfg. Part No.	Input	Output Voltage	Output Current	Function	Stock No.	Price Each
						1-24
● 81.020.4100.0	24VDC	250V AC/DC	6A	Multifunction	02M0656	96.27

(17632)

MERCURY DISPLACEMENT RELAYS



- All relays are normally-open
- Tubes are hermetically sealed
- Pull-in voltage is 85% of nominal; typical contact resistance is 4 milliohms
- Long life, quiet operation; self-renewing liquid mercury contacts are virtually immune to wear, pitting or corrosion

General-purpose, resistive, motor load, and tungsten ratings are available. Other control voltages available, 24VAC thru 480VAC.

➤ CONTINUED ➤

MERCURY DISPLACEMENT RELAYS (CONT.)

ELECTRICAL RATINGS

Mfg. Part No.	Alternating Current (A)			Motor Load 3 Phase (Hp)		Direct Current (A)		Tungsten Lamp (A @ 120VAC)
	@120V	@208V	@240V	@120V	@240V	@120VDC	@240VDC	
AFM	20	20	20	...	1.5	10.0	8.0	10
BF	30	30	30	...	5.0	25.0	15.0	30
BFC	60	60	60	5.0	10.0	30	20	60
BFL	35	35	35	...	5.0	25.0	15.0	30
CFC	100	100	100	...	20.0	50.0	30.0	100
3M30	25	25	25	1.5	3.0	...	...	25
2030, 3030	30	30	30	...	...	...	...	25
1M, 2M, 3M35	35	35	35	3.0	7.5	17.0	10.0	35
1, 2, 3060	60	60	60	5.0	10.0	30.0	20.0	60

GENERAL PURPOSE

Mfg. Part No.	Contacts	Coil Voltage	Coil Resist. (Ω)	Power (W)	Stock No.	Price Each
						1-2
AFM10-303-M	SPST-NO	120VAC	3510	1.70	92B3380	49.04
AFM220-310	SPST-NO	24VDC	144	3.84	93F2790	112.78
AFM20-303-M	SPST-NO	120VAC	3510	1.70	90F7071	56.10
AFM20-310-M	SPST-NO	24VDC	247	2.30	66F5530	56.10
AFM220-303	DPST-NC	120VAC	1196	3.60	90F7073	113.90
AFM320-303	3PST-NO	120VAC	470	7.26	90F7075	158.54
BF-7032	SPST-NO	120VAC	902	3.69	93F2791	78.47
BF-7046	SPST-NO	24VDC	230	2.50	90B7517	82.39
BF2-7027	DPST-NC	120VAC	350	7.10	98F4499	151.14
BF3-7024	3PST-NO	120VAC	135	9.20	93F2792	225.60
BFC3-708	3PST-NO	120VAC	4.5	3.65	98F4527	414.60
BFL2-7027	DPST-NC	120VAC	350	7.10	99F8644	160.75
BFL3-7024	3PST-NO	120VAC	135	9.20	50B2981	256.22
CFC-718	SPST-NO	120VAC	180	10.2	90F7095	273.32
CFC3-708	3PST-NO	120VAC	23	39.0	90F7099	793.03
DFC-301	SPST-NO	120VAC	180	8.8	98F6407	381.95
DFC3-301	3PST-NO	120VAC	18	42.9	98F7609	1091.38

RESISTIVE AND MOTOR LOADS

1060APS120AC	SPST-NO	120VAC	902	3.47	90F7090	108.60
1M35A120AC	SPST-NO	120VAC	902	3.69	90F7083	66.01
2030APS120AC	DPST-NC	120VAC	340	6.45	88F4369	83.57
2035A120AC	DPST-NC	120VAC	350	7.10	99F7248	119.42
2035A24DC	DPST-NC	24VDC	90	6.40	50B2987	115.64
2060APS120AC	DPST-NC	120VAC	350	7.46	90F7091	200.83
2060APS24DC	DPST-NC	24VDC	90	6.00	50B2988	200.83
2M35A120AC	DPST-NO	120VAC	350	7.10	90F7085	126.60
3030APS24DC	3PST-NO	24VDC	96	6.00	93F2793	94.69
3030APS120AC	3PST-NO	120VAC	340	4.80	90F7081	95.63
3035A120AC	3PST-NO	120VAC	135	9.20	93F2794	176.46
3035A24DC	3PST-NO	24VDC	51	11.30	50B2990	176.46
3050A120AC	3PST-NO	120VAC	135	9.10	52F5589	288.32
3060APS120AC	3PST-NO	120VAC	122	9.54	90F7093	295.17
3060APS24DC	3PST-NO	24VDC	46	11.10	96B4733	304.82
3M30APS120AC	3PST-NO	120VAC	340	4.80	90F7078	98.82
3M35A120AC	3PST-NO	120VAC	135	9.20	90F7087	193.86

(4058)

MERCURY DISPLACEMENT RELAYS



- AC or DC coils
- 1 to 3 poles
- Normally open or normally closed contacts available

- Panel or DIN rail mounting
- Exceptional surge capability

Handle tungsten resistive and motor loads. Current range: 35A-100A, up to 600VAC or 250VDC at lower currents. Contactor tubes hermetically sealed in stainless steel tubes. Frequency of operation: 60 per minute max. Pull-in voltage: 80% of rated voltage typical for AC and DC models. Operate time typical: 50 milliseconds. Operating temperature: -35°C to +60°C. WML series relays for resistive and tungsten loads with AC power, optional DIN adapter mfg. part no. BT5664 for 1-pole relays, mfg. part no. B75665 for 2 and 3 pole relays, also available; go online or call. UL listed, CSA certified. Relays shown have normally open contacts. Replace "A" with "B" for normally closed contacts.

➤ CONTINUED ➤

MERCURY DISPLACEMENT RELAYS • HIGH-VOLTAGE RELAYS • MULTI-POLE RELAYS

MERCURY DISPLACEMENT RELAYS (CONT.)

Number of Poles	Dimensions (inches)		
	L	W	H
1-Pole/35-60A	2.3	2.0	5.1
2-Pole/35-60A	2.3	3.5	5.1
3-Pole/35-60A	3.4	3.8	5.1

DC COIL RELAYS, 24VDC

Mfg. Part No.	Contact Current (A)	Coil Resist. (Ω)	Contacts	Stock No.	Price Each			
					1-24	25-49	50-99	100-499
M35A-12VDC	35	39	SPST-NO	88K2806	111.39	106.33	100.25	90.13
M35AA-12VDC	35	19	DPST-NC	88K2810	223.52	213.36	201.17	180.85
M35AAA-12VDC	35	14	3PST-NO	88K2814	262.46	250.53	236.22	212.36
M35A-24VDC	35	186	SPST-NO	88K2808	86.24	82.32	77.62	69.78
M35AA-24VDC	35	98	DPST-NC	88K2812	153.12	146.16	137.81	123.89
M35AAA-24VDC	35	64	3PST-NO	88K2816	225.28	215.04	202.76	182.28
M60A-12VDC	60	39	SPST-NO	88K2818	87.52	83.54	78.77	70.81
M60AA-12VDC	60	19	DPST-NC	88K2822	220.42	210.40	198.38	178.34
M60AAA-12VDC	60	14	3PST-NO	88K2826	256.88	245.20	231.19	207.84
M60A-24VDC	60	186	SPST-NO	88K2820	100.32	95.76	90.29	81.17
M60AA-24VDC	60	98	DPST-NC	88K2824	174.24	166.32	156.82	140.98
M60AAA-24VDC	60	63	3PST-NO	88K2828	256.96	245.28	231.27	207.91

AC COIL RELAYS, 120VAC

Mfg. Part No.	Contact Current (A)	Coil Resist. (Ω)	Contacts	Stock No.	Price Each			
					1-24	25-49	50-99	100-499
M35A-120VAC	35	700	SPST-NO	88K2807	91.52	87.36	82.37	74.05
M35AA-120VAC	35	218	DPST-NC	88K2811	151.36	144.48	136.23	122.47
M35AAA-120VAC	35	111	3PST-NO	88K2815	197.12	188.16	177.41	159.49
M35A-240VAC	35	2800	SPST-NO	88K2809	65.78	62.79	59.21	53.23
M35AA-240VAC	35	1200	DPST-NC	88K2813	158.40	151.20	142.56	128.16
M35AAA-240VAC	35	430	3PST-NO	88K2817	130.13	124.22	117.12	105.29
M60A-120VAC	60	700	SPST-NO	88K2819	98.56	94.08	88.71	79.75
M60AA-120VAC	60	218	DPST-NC	88K2823	172.48	164.64	155.24	139.56
M60AAA-120VAC	60	111	3PST-NO	88K2827	241.12	230.16	217.01	195.09
M60A-240VAC	60	2800	SPST-NO	88K2821	98.56	94.08	88.71	79.75
M60AA-240VAC	60	1200	DPST-NC	88K2825	179.52	171.36	161.57	145.25
M60AAA-240VAC	60	430	3PST-NO	88K2829	255.20	243.60	229.68	206.48

(3979)

KILOVAC 8A - 25A POWER RELAYS

- SPDT contacts
- Coil voltage: 26.5VDC
- Max. isolation voltage: 8000VDC



HC-1 and HC-3



HC-1 and HC-3 series relays have contacts sealed in a vacuum. HC-1 relays are widely used in RF applications. Their copper contacts are not designed for load switching. HC-3 series relays have tungsten contacts, switch low current loads. HC-5 series relays have contacts sealed in SF-6 gas for make-only power switching in capacitive discharge applications. HC-2 and HC-4 series relays have contacts sealed in a vacuum and meet requirements of MIL-R-83725. HC-2 has copper contacts not designed for load switching. HC-4 relays have tungsten contacts, switch low level loads. HC-6 series relays have contacts sealed in SF-6 gas for make only power switching in capacitive discharge applications. Each has a 0.5625"-32 threaded base with hex nut and lockwasher for mounting.

Mfg. Part No.	Max. Carry Current (A)	Power Switch	Switch Voltage (kV)	Stock No.	Price Each
					1-9
HC-1	25	Carry Only	3.5	09J3880	409.76
HC-2	25	Carry Only	8	09J3881	490.69
HC-3	18	Make & Break	3.5	09J3882	349.81
HC-4	15	Make & Break	8	09J3883	323.43
HC-5	8	Make Only	3.5	09J3884	505.41
HC-6	8	Make Only	8	09J3885	411.45

(83662)



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(148830)

801 SERIES GENERAL PURPOSE AND 901 SERIES LOW-LEVEL DUST TIGHT RELAYS



- Available in 12, 24, 36, and 48 Poles with Form C
- Available in 6, 12, 24, 28, 48 and 110VDC and 115VAC
- Non-Latching, Solenoid-Activated
- Temperature Range: -55°C to +85°C
- Double Throw, Transfer Switching
- Gold-Plated Terminals are Standard
- Applications: Data/Voice Communications, Test Equipment and Instrumentation

801 series general-purpose relays have gold-plated contacts rated 5A resistive to 150W, with resistance of 20mΩ. 901 series low-level relays have gold-plated bifurcated contacts rated 1A resistive to 50W, with resistance of 10mΩ. Both relay series mate with mfg. part no. 88061 connector, ordered separately below. 52-pole, magnetic latching, environmental and hermetically sealed units also available; go online or call. The following options are for relays listed in table below. Add appropriate suffix to relay when ordering.

Suffix	Option	Suffix	Option
-1	Alternate Direction (Toggle Switch)	-2	Top Mounting Flange
-4	Coil Terminal 1-6 Side of Relay	-3	Side Mounting Flange
-B	Boot for Toggle Switch	-M	Magnetically Shielded Coil
-F	Bifilar Coil	-S	Coil Suppression
-H	High Insulation: 50,000MΩ	-W	High Dielectric to 1500VAC

801 SERIES DC RELAYS

Mfg. Part No.	Contact Configuration	Coil Voltage	Stock No.	Price Each	
				Each	2-4
801-12C12	12PDT	12	59F702	384.80	349.65
801-24C12	24PDT	12	59F751	530.40	481.95
801-36C12	36PDT	12	59F753	686.40	623.70
801-48C12	48PDT	12	59F755	863.20	784.35
801-12C24	12PDT	24	59F703	384.80	349.65
801-24C24	24PDT	24	59F712	530.40	481.95
801-36C24	36PDT	24	59F721	686.40	623.70
801-48C24	48PDT	24	59F756	863.20	784.35
801-12C28	12PDT	28	59F750	384.80	349.65
801-24C28	24PDT	28	59F752	530.40	481.95

801 SERIES AC RELAYS

801-12C115	12PDT	115	59F792	411.84	374.22
801-24C115	24PDT	115	59F794	557.44	506.52
801-36C115	36PDT	115	59F796	713.44	648.27
801-48C115	48PDT	115	59F798	890.24	808.92

901 SERIES DC RELAYS

901-12C-12	12PDT	12	59F1665	374.40	340.20
901-12C-24	12PDT	24	59F1666	374.40	340.20
901-24C-12	24PDT	12	59F1668	520.00	472.50
901-24C-24	24PDT	24	59F1669	520.00	472.50
901-36C-24	36PDT	24	59F1671	676.00	614.25

CONNECTOR PACKAGES

Mfg. Part No.	Plating	Contains Components	Stock No.	Price Each	
				Each	2-4
88601	Gold	1 Connector Block 1 Identification Label 8601-006-1 1 Identification Label 8601-006-2 1 Retainer 8601-3 20 Contacts, Either 8601-1 (Tin-Plated) or 8601-1-G76 (Gold-Plated)	59F741	31.56	28.68

PREWIRED CONNECTORS

Mfg. Part No.	Plating	Description	Stock No.	Price Each	
				Each	2-4
88601-18C	Gold	1 Connector Block 1 Identification Label 8601-006-1 1 Identification Label 8601-006-2 1 Retainer 8601-3 20 Contacts, Either 8601-1 (Tin-Plated) or 8601-1-G76 (Gold-Plated) 18" Pre-Wired Cable, #22 AWG Wire, Color Coded: Common, Normally Open and Normally Closed. End Stripped 3/16"	44F2076	104.79	95.17

(73440)

CONTACTORS/MOTOR STARTERS/AC DRIVES

30C DEFINITE PURPOSE CONTACTORS



Features:

- 20FLA to 150FLA
- Robust 1 to 4-pole contactor
- Industry standard mounting
- Arc covers as standard

Specifications:

- Dielectric strength: 2200VAC
- Insulation system: 130°C class B
- Temperature range: -40°C to +65°C
- Wire size: Box lug 14-4, #10-32 screw 16-8*



Mfg. Part No.	Carry Current (A)	Contacts	Coil Voltage (VDC)	Coil Resist. (Ω)	Stock No.	Price Each
						1-4
30C30-1023-155-5120	30	3PST-NO	120	180	59P3477	27.72
30C30-1023-155-5230	30	3PST-NO	240	720	59P3478	27.72
30C40-1023-144-5120	40	3PST-NO	120	180	59P3479	33.14
30C40-1023-144-5230	40	3PST-NO	240	720	59P3480	33.14
30C60-1023-166-5120	60	3PST-NO	120	180	59P3481	76.59
30C60-1023-166-5230	60	3PST-NO	240	720	59P3482	76.59

* Must use ring terminal (107908)

ELECTROMECHANICAL MINI-CONTACTORS AND OVERLOADS



Just Added



- Compact size / powerful performance ratio
- Approximately 2.25 cubic inches
- One frame size for three current ratings
- Up to 7.5HP motor rating
- Up to 20A resistive rating
- 120VAC coil voltage
- Captive screw clamp
- DIN rail or back panel mounting (PCB mounting for solder pin types)



Mini-contactors and mini-overloads provide a compact and light contactor and/or overload solution. Dimensions (H x W x D in mm): CGMS : 58 x 45 x 57mm; CGT-12M: 73 x 45 x 64mm. Additional motor protection ranges for the thermal overloads, other auxiliary contact configurations/types, additional coil voltages, cage clamp, fast-on or solder pin connections, and manual motor starters and direct bridge adaptors available; go online or call.

120VAC COIL WITH 1NO AUXILIARY CONTACT

Mfg. Part No.	Continuous Current (A)	Motor Rating @ 480VAC (HP)	Stock No.	Price Each
				1-4
CGMS-6A-120-10	20	3	71K2018	18.32
CGMS-9A-120-10	20	5	71K2028	19.54
CGMS-12A-120-10	20	7.5	71K2008	20.76

THERMAL OVERLOADS FOR MINI-CONTACTORS

Mfg. Part No.	Motor Protection Range (A)	Stock No.	Price Each
			1-4
CGT-12M-6	4-6	08R0959	26.64
CGT-12M-9	6-9	08R0960	26.64
CGT-12M-13	9-13	71K2074	26.64

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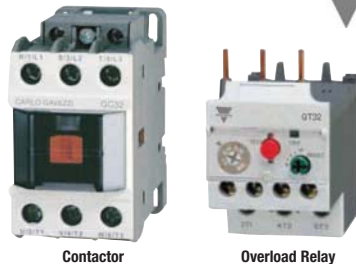
ELECTROMECHANICAL MEDIUM CONTACTORS AND OVERLOADS



Just Added



- Robust housing design
- One frame size for three current ratings
- Up to 20HP motor rating
- Up to 50A resistive rating
- 120VAC coil voltage
- Easily interchangeable coils
- Captive screw clamps
- DIN rail or back panel mounting



Midi-contactors and midi-overloads are ideal where you're looking for a robust yet compact contactor and/or overload solution. Coils are easily changeable should a coil voltage other than 120VAC be required. Dimensions (H x W x D in mm): GC18-32S: 83 x 45 x 93mm; GT32S: 75 x 45 x 86mm. Additional motor protection ranges for the thermal overloads, other auxiliary contact configurations/types, additional coil voltages, cage clamp, fast-on or solder pin connections, and manual motor starters and direct bridge adaptors available; go online or call.

➔ CONTINUED ➔

ELECTROMECHANICAL MEDIUM CONTACTORS AND OVERLOADS (CONT.)

120VAC COIL WITH 1NO/1NC AUXILIARY CONTACT

Mfg. Part No.	Continuous Current (A)	Motor Rating @ 480VAC (HP)	Stock No.	Price Each
				1-4
GC18SA120	40	10	73M2766	47.73
GC25SA120	40	15	73M2772	49.95
GC32SA120	50	20	73M2778	62.16

THERMAL OVERLOADS FOR MEDIUM CONTACTORS

Mfg. Part No.	Motor Protection Range (A)	Stock No.	Price Each
			1-4
GT32S16A	12-18	08R0961	39.96
GT32S25A	18-25	73M2935	39.96
GT32S32A	22-32	73M2936	58.83

(147862)

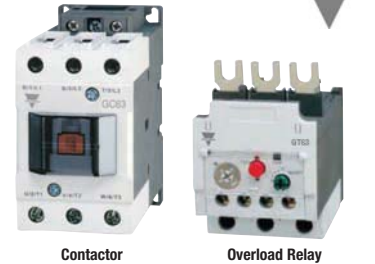
ELECTROMECHANICAL MEDIUM CONTACTORS AND OVERLOADS



Just Added



- Rugged housing design
- One frame size for three current ratings
- Up to 40HP motor rating
- Up to 75A resistive rating
- 120VAC coil voltage
- Easily interchangeable coils
- Lug terminal connections for line and load
- DIN rail or back panel mounting



Midi-contactors and midi-overloads provide a robust yet compact contactor and/or overload solution. Coils are easily changeable should a coil voltage other than 120VAC be required. Dimensions (H x W x D in mm): GC40-63L: 106 x 55 x 122mm; GT63L: 81 x 55 x 96mm. Additional motor protection ranges for the thermal overloads, other auxiliary contact configurations/types, additional coil voltages, cage clamp, fast-on or solder pin connections, and manual motor starters and direct bridge adaptors available; go online or call.

120VAC COIL WITH 2NO/2NC AUXILIARY CONTACT

Mfg. Part No.	Continuous Current (A)	Motor Rating @ 480VAC (HP)	Stock No.	Price Each
				1-4
GC40LA120	60	30	73M2796	74.37
GC50LA120	70	40	73M2808	102.12
GC63LA120	75	40	73M2820	105.45

THERMAL OVERLOADS FOR MEDIUM CONTACTORS

Mfg. Part No.	Motor Protection Range (A)	Stock No.	Price Each
			1-4
GT63L40A	28-40	73M2946	83.25
GT63L50A	34-50	73M2947	83.25
GT63L65A	45-65	73M2949	83.25

(147863)

ELECTROMECHANICAL MEDIUM CONTACTORS AND OVERLOADS



Just Added



- High current/HP switching in a relatively compact housing
- One frame size for three current ratings
- Up to 75HP motor rating
- Up to 140A resistive rating
- 120VAC coil voltage
- Easily interchangeable coils
- Lug terminal connections for line and load
- DIN rail or back panel mounting



Midi-contactors and Midi-overloads are ideal for a high current/HP switching in a relatively compact contactor and/or overload solution. Coils are easily changeable should a coil voltage other than 120VAC be required. Dimensions (H x W x D in mm): GC75-95L: 140 x 70 x 137mm; GT95L: 97 x 70 x 106mm. Additional motor protection ranges for the thermal overloads, other auxiliary contact configurations/types, additional coil voltages, cage clamp, fast-on or solder pin connections, and manual motor starters and direct bridge adaptors available; go online or call.

120VAC COIL WITH 2NO/2NC AUXILIARY CONTACT

Mfg. Part No.	Continuous Current (A)	Motor Rating @ 480VAC (HP)	Stock No.	Price Each
				1-4
GC75LA120	110	50	73M2842	113.22
GC85LA120	135	60	73M2852	116.55
GC95LA120	140	75	73M2870	279.72

➔ CONTINUED ➔

CONTACTORS/MOTOR STARTERS/AC DRIVES

ELECTROMECHANICAL MIDI-CONTACTORS AND OVERLOADS (CONT.)

THERMAL OVERLOADS FOR MIDI-CONTACTORS

Mfg. Part No.	Motor Protection Range (A)	Stock No.	Price Each	
			1-4	5-9
GT95L75A	54-75	73M2971	93.24	
GT95L85A	63-85	73M2972	93.24	
GT95L95A	70-95	73M2973	93.24	

(147864)

DEFINITE PURPOSE CONTACTORS



- Switching up to 40A inductive, 50A resistive
- Coil voltage up to 575VAC, 50/60Hz
- Wire size: 14-4 AWG



ONE-POLE OUTPUT

Mfg. Part No.	Contacts	Inductive Load Current (A)	Coil Voltage (VAC)	Connection	Stock No.	Price Each	
						1-9	10+
CGDP1020B5	SPST-NO	20	24	Screw	39M3802	16.25	14.88
CGDP1020F5	SPST-NO	20	120	Screw	39M3803	16.25	14.88
CGDP1030LF5	SPST-NO	30	120	Lug	39M3805	18.80	17.21
CGDP1040LB5	SPST-NO	40	24	Lug	39M3806	19.90	18.22

TWO-POLE OUTPUT

CGDP2020B5	DPST	20	24	Screw	39M3808	16.59	15.18
CGDP2020F5	DPST	20	120	Screw	39M3809	17.47	15.99
CGDP2030LF5	DPST	30	120	Lug	39M3811	20.91	19.14
CGDP2040LB5	DPST	40	24	Lug	39M3812	22.11	20.24
CGDP2040LF5	DPST	40	120	Lug	39M3813	22.11	20.24

THREE-POLE OUTPUT

CGDP3020B5	3PST	20	24	Screw	39M3814	21.01	19.23
CGDP3020F5	3PST	20	120	Screw	39M3815	24.12	22.08
CGDP3020K5	3PST	20	240	Screw	39M3816	22.11	20.24
CGDP3030LB5	3PST	30	24	Lug	39M3817	26.54	24.29
CGDP3030LF5	3PST	30	120	Lug	39M3818	30.15	27.60
CGDP3030K5	3PST	30	240	Lug	39M3819	26.54	24.29
CGDP3040LB5	3PST	40	24	Lug	39M3820	28.75	26.32
CGDP3040LF5	3PST	40	120	Lug	39M3821	28.75	26.32
CGDP3040K5	3PST	40	240	Lug	39M3822	32.57	29.81

(91171)

SOLITRON SOLID STATE CONTACTORS WITH INTEGRATED HEAT SINK FOR ANALOG SWITCHING

- Five selectable modes of analog switching output
- Up to 50A one pole switching
- 0-10VDC or 4-20mA control signal
- LED indication(s)
- Built-in varistor (MOV)

RJ1P series single pole analog switching SSR for resistive loads up to 50A @ 660VAC. Five selectable modes of operation: Phase angle, Distributed full cycle, Burst control (1, 3 or 10 seconds). 24VAC/DC supply voltage is required for the 0-10VDC controlled versions. Types with an over-temperature transistor alarm output are available upon request. User friendly just snap onto DIN rail. Up to 660 VAC switching. Up to 1200 Vp non-repetitive voltage.

SINGLE POLE SCR OUTPUT (ANALOG SWITCHING), 4-20mA OR 0-10VDC CONTROL

Mfg. Part No.	Control Signal	Current (A)	Line Voltage (VAC)	Stock No.	Price Each	
					1-4	5-9
RJ1P23150E	4-20 mA	50	90-265	71K9881	183.71	177.88
RJ1P23V50E	0-10 VDC	50	90-265	71K9882	190.52	184.47
RJ1P48150E	4-20 mA	50	200-550	71K9883	197.32	191.06
RJ1P48V50E	0-10 VDC	50	200-550	71K9884	204.12	197.64
RJ1P60150E	4-20 mA	50	410-660	71K9885	210.93	204.23
RJ1P60V50E	0-10 VDC	50	410-660	71K9886	217.73	210.82

(110617)



SOLITRON SOLID STATE CONTACTORS WITH INTEGRATED HEAT SINK AND MODBUS COMMUNICATION INTERFACE



CARLO GAVAZZI



Just Added

- Four modes of operation: On/Off (zero switching), Phase Angle, Distributed Full Cycle or Burst Firing
- MODBUS RTU interface over RS, Dual RJ45 sockets for easy installation and daisy chaining
- Fault detection for over-temperature, faulty SSR (shorted, 1/2 wave or open circuit), phase loss or full load loss
- Current monitoring and voltage monitoring/power measurement offered with more sophisticated models (BC and CS)
- 24VDC control voltage

RJ1P23MB series single pole multi-mode switching SSR for resistive loads up to 50A @ 265VAC. This relay is equipped with a fieldbus communication interface. The relay operates under control of a microcontroller that handles communication, monitors operational parameters and controls the SSR as it switches the load. The RJ1PMB supports the Modbus RTU communication protocol over an RS485 interface. The communication interface allows modification and reading of several parameters very quickly through a single RJ45 connection. Diagnostic information is easily accessible for troubleshooting and repair. The basic controller (BC suffix) has four switching modes, and provides fault detection for over-temperature, faulty SSR (shorted, xxx wave or open circuit), phase loss or full load loss. The current sensing model (CS suffix) provides all of these basic controller features, but also current monitoring of the load. The voltage monitoring and power measuring model (CV suffix) offers the basic controller functions, but also voltage monitoring and power measurement.

SINGLE POLE SCR OUTPUT (ZERO SWITCHING WITH MODBUS RTU INTERFACE), 24VDC CONTROL

Mfg. Part No.	Type of Controller	Current (A)	Line Voltage (VAC)	Stock No.	Price Each	
					1-4	5-9
RJ1P23MBT50EBC	Basic	50	24-265	99M1080	293.04	283.54
RJ1P23MBT50ECS	Basic with Current Sensing	50	24-265	99M1081	346.32	335.09
RJ1P23MBT50ECV	Basic with Voltage Monitoring and Power Measuring	50	24-265	99M1082	341.88	330.80

(110619)

RPH SERIES HYBRID SOLID STATE RELAY CONTACTORS



Just Added



Features (1RHP and 3RHP):

- Combined SSR and EMR advantages
- Mercury-free alternative to replace MDRs
- Highly reliable and longer life than standard EMRs
- LED input status indicator
- Wire, lug or quick connect termination
- DP contactor footprint
- No heat sink required
- Quiet operation

Specifications:

- 1RHP: 17.5 mm DIN rail mount
- 1RHP: US Patent No. 6,347,024 B1
- 1RHP/ 3RHP: 40 and 50A output
- 1RHP/ 3RHP: Voltage ratings to 240VAC
- 1RHP/ 3RHP: Life: 2 million operations at full load

1RHP DIN RAIL MOUNT RELAYS

Mfg. Part No.	Control Voltage Type	Control Voltage	Load Current (A)	Load Voltage (VAC)	Stock No.	Price Each	
						1-14	15-14
1RHP2520A	AC	90-250	20	250	51P3674	46.89	
1RHP2520D32	DC	4-32	20	250	51P3675	43.92	

3RHP PANEL MOUNT RELAYS

3RHP2840E	AC	20-26	40	280	51P3688	123.27	
3RHP6040E	AC	20-26	40	600	51P3694	126.65	
3RHP2850E	AC	20-26	50	280	51P3691	140.17	
3RHP6050E	AC	20-26	50	600	51P3697	143.55	
3RHP2840F	AC	100-130	40	280	51P3689	124.14	
3RHP6040F	AC	100-130	40	600	51P3695	127.52	
3RHP2850F	AC	100-130	50	280	51P3692	141.02	
3RHP6050F	AC	100-130	50	600	51P3698	144.39	
3RHP2840G	AC	208-240	40	280	51P3690	124.56	
3RHP6040G	AC	208-240	40	600	51P3696	127.92	
3RHP2850G	AC	208-240	50	280	51P3693	141.44	
3RHP6050G	AC	208-240	50	600	51P3699	144.82	
3RHP1240D5	DC	4.5-5.5	40	120	51P3678	130.03	
3RHP2440D5	DC	4.5-5.5	40	240	51P3684	130.03	
3RHP1250D5	DC	4.5-5.5	50	120	51P3681	146.93	
3RHP2450D5	DC	4.5-5.5	50	240	51P3687	146.93	
3RHP1240D12	DC	10-15	40	120	51P3676	130.46	
3RHP2440D12	DC	10-15	40	240	51P3682	130.46	
3RHP1250D12	DC	10-15	50	120	51P3679	147.33	
3RHP2450D12	DC	10-15	50	240	51P3685	147.33	
3RHP1240D24	DC	22-27	40	120	51P3677	130.90	

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CONTACTORS/MOTOR STARTERS/AC DRIVES

RPH SERIES HYBRID SOLID STATE RELAY CONTACTORS (CONT.)

3RHP PANEL MOUNT RELAYS

Mfg. Part No.	Control Voltage Type	Control Voltage	Load Current (A)	Load Voltage (VAC)	Stock No.	Price Each
● 3RHP2440D24	DC	22-27	40	240	51P3683	130.90
● 3RHP1250D24	DC	22-27	50	120	51P3680	147.77
● 3RHP2450D24	DC	22-27	50	240	51P3686	147.77

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each
DMB3	DIN Rail Bracket; For Use With:3RHP Series Solid State Contactor	51P3672	8.72
● HAC1	Auxiliary Contact; 5A at 600VAC; SPDT-1NO/1NC; Quick Connect	51P3673	24.50

(142169)

A202 LIGHTING CONTACTORS



Features:

- Switchings of large tungsten, fluorescent, mercury arc lamp loads
- The magnetically latching contactors withstand large initial inrush currents of tungsten lamp loads without contact welding
- Do not require derating
- Designed and tested for lighting and resistive loads
- No control power necessary to maintain contact closure
- Low installed cost

Specifications:

- All except 30A devices: Cu/Al
- 30A devices: Cu only
- Ballast load: 600 AC, breaking all lines
- Tungsten lamp loads, maximum volts
- Line-to-line: 480V AC
- Line-to-neutral: 277V AC
- UL Listed File # E44424, Guide NRNT
- CSA Certified File # LR39402, Class 3231-01



The A202 Lighting Contactor from Eaton's electrical business provides a safe and convenient means for local or remote switching of relatively large tungsten, fluorescent or mercury arc lamp loads.

OPEN A202 MAGNETICALLY LATCHED LIGHTING CONTACTORS

Mfg. Part No.	Continuous Current (A)	No. of Poles	Coil Voltage (VAC)	Stock No.	Price 1-2
A202K1BAM	30	2	120	45K6163	670.28
A202K1CAM	30	3	120	45K6167	675.42
A202K1DAM	30	4	120	45K6173	728.13
A202K1EAM	30	5	120	45K6175	897.26
A202K1CWM	30	3	240	89M4523	649.44
A202K1DWM	30	4	240	89M4525	728.13
A202K1EWM	30	5	240	89M4527	862.76
A202K1CXM	30	3	440	89M4524	649.44
A202K1DXM	30	4	440	89M4526	700.13
A202K1EXM	30	5	440	89M4528	862.76
A202K2CAM	60	3	120	48K9201	1298.11
A202K2DAM	60	4	120	89M4531	1566.09
A202K2EAM	60	5	120	89M4534	2072.37
A202K2CWM	60	3	240	89M4529	1248.20
A202K2DWM	60	4	240	89M4532	1566.09
A202K2EWM	60	5	240	89M4535	696.96
A202K2CXM	60	3	440	89M4530	228.83
A202K2DXM	60	4	440	89M4533	1505.86
A202K2EXM	60	5	440	89M4536	566.28

(110567)

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(148835)



COMPACT DEFINITE PURPOSE CONTACTORS



1-Pole Binding head screw/QC



2-Pole Binding head screw/QC



2-Pole Box Lugs/QC

- Insulation Voltage: 690V
- Magnet Coil Class F, 155°C
- Operating temperature: -25 to +70°C
- Coil Power VAC: 2.2kW
- Coil Terminals: Screw with Quick Connect
- Coil Voltage AC Max: 120V

- Coil Voltage AC Min: 110V
- Contacts: DPST-NO-DB
- Horsepower: 3hp
- Line Voltage: 230V

C25 Series 20 - 40A single and double-pole contactors feature a compact, efficient design with a low VA coil and straight-through wiring. New contactor housing design effectively limits dust and other contaminants from magnet structure, reduces or eliminates noise.

1-POLE CONTACTORS BINDING HEAD SCREWS AND QUICK CONNECT TERMINALS

Mfg. Part No.	Inductive Current Rating (A)	Max HP Rating 115 V	Max HP Rating 230 V	Coil Voltage (VAC)	Stock No.	Price Each
C25ANB125T	25	2	3	24	46K2670	16.53
C25ANB125A	25	2	3	120	46K2667	16.53
C25ANB130T	30	2	5	24	46K2674	21.18
C25ANB130A	30	2	5	120	46K2671	19.56
C25ANB140T	40	3	7.5	24	46K2679	23.96
C25ANB140A	40	3	7.5	120	46K2676	23.96

2-POLE CONTACTORS BINDING HEAD SCREWS AND QUICK CONNECT TERMINALS

C25BNB220T	20	1.5	3	24	46K2693	18.46
C25BNB220A	20	1.5	3	120	46K2689	19.96
C25BNB220B	20	1.5	3	240	46K2690	18.46
C25BNB225T	25	2	3	24	46K2698	22.76
C25BNB225A	25	2	3	120	46K2694	22.76
C25BNB225B	25	2	3	240	46K2695	22.76
C25BNB230T	30	2	5	24	46K2707	25.07
C25BNB230A	30	2	5	120	46K2699	26.08
C25BNB230B	30	2	5	240	46K2702	26.08
C25BNB240T	40	3	7.5	24	46K2713	32.03
C25BNB240A	40	3	7.5	120	46K2709	29.47
C25BNB240B	40	3	7.5	240	46K2710	29.47

2-POLE CONTACTORS BOX LUGS AND QUICK CONNECT TERMINALS

C25BNF240T	40	3	7.5	24	46K2725	34.83
C25BNF240A	40	3	7.5	120	46K2722	32.23
C25BNF240B	40	3	7.5	240	46K2723	34.83

(105807)

C30CN LIGHTING CONTACTORS



C30CNE



C30CNM

- 30 amp power pole rating
- Up to 12 poles maximum
- Power poles latch easily onto the base, and designating them as NO or NC is simple matter of left or right positioning. Additional poles, either NO or NC, may be easily added at any time.
- Low input VA permits long wire runs
- Come in a wide range of input voltages and with coils from 24V to 277V AC and 12V to 24V DC

ELECTRICALLY HELD 2-WIRE OR 3-WIRE CONTROL

The mechanically held lighting contactor provides effective control in applications such as office buildings, industrial plants, hospitals, stadiums, airports, etc. They are ideal for applications that require quiet, energy-efficient operation. Designed to handle different load types. Tungsten (incandescent filament), Ballast (fluorescent and mercury arc), High intensity discharge (HID).

➤ CONTINUED ➤

CONTACTORS/MOTOR STARTERS/AC DRIVES

C30CN LIGHTING CONTACTORS (CONT.)

Mfg. Part No.	No. of Poles	Coil Voltage (VAC)	Stock No.	Price Each
C30CNE20A0	2	120	46K3294	419.00
C30CNE20B0	2	240	46K3295	419.00
C30CNE20C0	2	480	89M4583	419.00

MECHANICALLY HELD 2-WIRE LIGHTING CONTACTORS

C30CNM20A02A0	2	120	46K3303	653.00
C30CNM20B02A0	2	240	89M4584	788.48
C30CNM20C02A0	2	480	89M4586	788.48

MECHANICALLY HELD 3-WIRE LIGHTING CONTACTORS

C30CNM20A03A0	2	120	46K3304	688.00
C30CNM20B03A0	2	240	89M4585	830.72
C30CNM20C03A0	2	480	89M4587	830.72

ACCESSORIES

Mfg. Part No.	Description	For Use With	Stock No.	Price Each
C320AMH1	Single Pole Auxiliary Contact	C30CN Lighting Contactors	46K3395	31.50
C320AMH2	Double Pole Auxiliary Contact	C30CN Lighting Contactors	46K3396	47.26
C320MH2WA0	2-Wire Mech Held Module 120VAC	C30CN 2-Wire Lighting Contactors	46K3529	173.00
C320MH2WH0	2-Wire Mech Held Module 240VAC	C30CN 2-Wire Lighting Contactors	46K3530	173.00
C320MH3WA0	3-Wire Mech Held Module 120VAC	C30CN 3-Wire Lighting Contactors	46K3533	204.00
C320MH3WH0	3-Wire Mech Held Module 240VAC	C30CN 3-Wire Lighting Contactors	46K3534	204.00
C320PRP1	Single Power Pole	C30CN Lighting Contactors	46K3583	86.50
C320PRP2	Double Power Pole	C30CN Lighting Contactors	46K3584	173.00

(110586)

50MM DEFINITE PURPOSE CONTACTORS (CONT.)

4-POLE CONTACTORS WITH SCREW/PRESSURE PLATE AND QUICK CONNECT TERMINALS SIDE BY SIDE

Mfg. Part No.	Current Rating (A)	Max HP 1 phase 115 V	Max HP 3 phase 230 V	Max HP 3 phase 480 V	Coil Voltage (VAC)	Stock No.	Price Each 1-4
C25END430T	30	2	10	15	24	46K3173	55.95
C25END430A	30	2	10	15	120	46K3169	55.95
C25END430B	30	2	10	15	208-240	46K3170	55.95

3-POLE CONTACTORS WITH BOX LUGS & QC TERMINALS SIDE BY SIDE

C25DNF330A	30	2	10	15	120	46K3066	64.81
C25DNF340T	40	3	10	20	24	46K3094	68.49
C25DNF340A	40	3	10	20	120	46K3077	68.49
C25DNF340B	40	3	10	20	208-240	46K3087	68.49
C25FNF360T	60	5	20	40	24	46K3225	103.95
C25FNF360A	60	5	20	40	120	46K3218	103.95
C25FNF360B	60	5	20	40	208-240	46K3221	103.95
C25FNF375T	75	5	20	50	24	46K3231	146.76
C25FNF375A	75	5	20	50	120	46K3226	146.76
C25FNF375B	75	5	20	50	208-240	46K3229	94.61

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price 1-4
C320KG1	Side Mount Auxiliary Contact -1NO	46K3499	11.30
C320KG2	Side Mount Auxiliary Contact -1NC	46K3505	11.30
C320KG3	Side Mount Auxiliary Contact -1NO/1NC	46K3506	18.90
C320KG4	Side Mount Auxiliary Contact -2NO	46K3508	18.90
C320KG5	Side Mount Auxiliary Contact -2NC	46K3509	18.90
C321KM60B	Mechanical Interlock Kit (15 - 75 amps)	46K3642	23.15

(105818)

50MM DEFINITE PURPOSE CONTACTORS



15-50A Screw/Pressure & QC Side by Side



60-75A Box lugs & QC Side by Side



15-50A Box lugs & QC Side by Side



Side Mounted Auxiliary Contact



Side Mounted Snap Switch Auxiliary Contact

- Current rating: 15-75A
- Available in 2, 3, and 4 pole configurations
- Universal mounting plate
- Contacts: Double Break
- Coil terminals: 10 - 14 AWG
- Magnet coil: Class F, 155°C
- Ambient temperature: 150°F (65°C)

Definite Purpose Contactors and Starters are electrically operated switching devices specifically designed for the heating, ventilation, air conditioning and refrigeration (HVAC) industry. They are typically controlled by automatic, i.e. thermostat, control or manual, i.e. pushbutton, interfaces. They are suitable for a wide range of other low-cycle duty applications requiring low cost switching of single- and three-phase loads. In addition to HVAC, these compact and relatively low cost devices can be found in the following applications: Elevators, Pool and spa, Food processing, Pumps and compressors, Lighting, Hoists and cranes, Welding, Battery chargers, Printing presses, Power supplies, Vending machines, Agricultural applications

3-POLE CONTACTORS WITH SCREW/PRESSURE PLATE & QUICK CONNECT TERMINALS SIDE BY SIDE

Mfg. Part No.	Current Rating (A)	Max HP 1 phase 115 V	Max HP 3 phase 230 V	Max HP 3 phase 480 V	Coil Voltage (VAC)	Stock No.	Price Each 1-4
C25DND325T	25	2	7.5	10	24	46K2970	39.69
C25DND325A	25	2	7.5	10	120	46K2961	51.98
C25DND325B	25	2	7.5	10	208-240	46K2965	51.98
C25DND330T	30	2	10	15	24	46K2993	41.21
C25DND330A	30	2	10	15	120	46K2975	56.56
C25DND330B	30	2	10	15	208-240	46K2983	56.56

4-POLE CONTACTORS WITH SCREW/PRESSURE PLATE AND QUICK CONNECT TERMINALS SIDE BY SIDE

C25END425T	25	2	7.5	10	24	46K3168	49.52
C25END425A	25	2	7.5	10	120	46K3164	49.52
C25END425B	25	2	7.5	10	208-240	46K3165	49.52

➤ CONTINUED ➤

XT-IEC CONTACTORS AND OVERLOAD RELAYS



Contactor with Overload Relay



Overload Relay



C Frame Contactor



D Frame Contactor



F Frame Contactor



Contactor with Overload Relay

- IEC contactors available from 7 to 2500 amps
- Reversing contactors, FVNR and FVR starters, and CMC's (integrated Starters) available
- Low wattage coils are available in a wide range of both AC: 12V to 600V 50/60 Hz, DC: 12V to 220V
- DC coil has same physical dimensions as AC coil
- Panel or DIN rail mounting

The XT series is the perfect product solution for IEC applications all over the world. Compact, space saving, and easy to install (requires no tools). It is the efficient and effective solution for customer applications from 7A to 2000A. Eaton revolutionary design is the latest in leading edge technology combining space-savings with generations of IEC design experience tracing its origins to its engineering roots in 1899 in Bonn, Germany. The tool-less design allows contactors and overload relays to be combined easily into non-reversing and reversing contactors, starters, combination motor controllers. Manual Motor Protectors are also available on the website. Ambient temperature range: -25°C to +50°C.

45MM IEC CONTACTOR AND STARTERS

Mfg. Part No.	Current Rating AC-3 (A)	Max HP 230 VAC	Max HP 460 VAC	Max HP 575 VAC	Coil Voltage	Stock No.	Price Each 1-2
XTCE007B10A*	7	2	3	5	120VAC	51M9135	54.64
XTCE007B10TD	7	2	3	5	24VDC	51M9136	70.93
XTCE009B10A*	9	3	5	7-1/2	120VAC	51M9137	59.43

➤ CONTINUED ➤

CONTACTORS/MOTOR STARTERS/AC DRIVES

XT-IEC CONTACTORS AND OVERLOAD RELAYS (CONT.)

Mfg. Part No.	Current Rating AC-3 (A)	Max HP 230 VAC	Max HP 460 VAC	Max HP 575 VAC	Coil Voltage	Stock No.	Price Each 1-2
● XTCE012B10A*	12	3	7-1/2	10	120VAC	51M9139	72.38
● XTCE012B10TD	12	3	7-1/2	10	24VDC	51M9140	92.51
● XTCE015B10A*	15.5	3	10	10	120VAC	51M9141	80.52
● XTCE015B10TD	15.5	3	10	10	24VDC	51M9142	96.81
● XTCE018C10A	18	5	10	15	120VAC	51M9143	83.39
● XTCE018C10TD	18	5	10	15	24VDC	12N1621	101.14
● XTCE025C10A	25	7-1/2	15	20	120VAC	51M9144	100.18
● XTCE032C10A	32	10	20	25	120VAC	74K2721	125.10
● XTCE032C10TD	32	10	20	25	24VDC	17M8808	145.23

55MM IEC CONTACTORS AND IEC STARTERS

● XTCE040D00A	40	15	30	40	120VAC	51M9145	145.23
● XTCE040D00TD	40	15	30	40	24VDC	17M8809	168.70
● XTCE050D00A	50	20	40	50	120VAC	51M9146	160.07
● XTCE065D00A	65	25	50	60	120VAC	51M9147	169.66
● XTCE065D00TD	65	25	50	60	24VDC	17M8811	208.96

65MM IEC CONTACTORS AND STARTERS

● XTCE080F00A	80	30	60	75	120VAC	12N1624	209.34
● XTCE080F00TD	80	30	60	75	24VDC	12N1625	260.84

110MM IEC CONTACTORS AND STARTERS

XTCE115G00A	115	40	75	100	120VAC	01N4596	352.05
XTCE115G00TD	115	40	75	100	24VDC	57P7192	403.06
XTCE150G00A	150	50	100	125	120VAC	57P7193	525.75
XTCE150G00TD	150	50	100	125	24VDC	57P7194	629.27

MOTOR OVERLOAD RELAYS - ELECTRONIC

Mfg. Part No.	Overload Release I _n (A)	For Use With Contactor Range (A)	Stock No.	Price Each 1-2
C396A2AP05SELXB	0.1-0.5	7-15.5	71M0169	56.53
C396A2A002SELXB	0.4-2	7-15.5	71M0172	56.53
C396A2A005SELXB	1-5	7-15.5	71M0175	56.53
C396A2A008SELXB	1.6-8	7-15.5	71M0178	56.53
C396A2A032SELXB	6.4-32	7-15.5	57P7186	63.88
C396A2A032SELXC	6.4-32	18-32	71M0181	63.88
C396A2A045SELXD	9-45	15-45	71M0184	88.72
C396A2A075SELXD	15-75	15-75	57P7187	88.72
C396B2A110SELXF	22-110	65-80	71M0188	124.72
C396C2A150SELAX	30-150	80-150	71M0189	265.64

ACCESSORIES

Mfg. Part No.	Description	For Use With Contactor Range (A)	Stock No.	Price Each 1-9
● XTCEXFAC11	Auxiliary Contact -1NO & 1NC	0-32	51M9114	17.93
● XTCEXFAC20	Auxiliary Contact -2NO	0-32	51M9116	17.93
● XTCEXFCC02	Auxiliary Contact -2NC	0-32	84K7859	17.93
● XTCEXFCC22	Auxiliary Contact -2NO & 2NC	0-32	84K7860	30.76
● XTCEXFAG11	Auxiliary Contact -1NO & 1NC	32-150	57P7191	17.93
● XTCEXFBG20	Auxiliary Contact -2NO	32-150	51M9125	17.93
● XTCEXFBG02	Auxiliary Contact -2NC	32-150	17M8780	17.93
● XTCEXFBG22	Auxiliary Contact -2NO & 2NC	32-150	51M9126	30.76

COMMONING LINKS

XTCEXCLK3B	Commoning Link - 3 contactors	0-15	57P7188	26.69
XTCEXCLK4B	Commoning Link - 4 contactors	0-15	57P7189	30.76
XTCEXCLK5B	Commoning Link - 5 contactors	0-15	57P7190	33.07

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XT SERIES IEC MOTOR STARTERS COMPLETE UNITS



Frame C



Contactor with Overload Relay

CONTINUED

XT SERIES IEC MOTOR STARTERS COMPLETE UNITS (CONT.)

Features

- IEC starters available from 7 to 650 amps
- FVNR and FVR starters available
- Low wattage coils are available in a wide range of both AC: 12V to 600V 50/60 Hz and DC: 12V to 220V
- DC coil has same physical dimensions as AC coil
- Panel or DIN rail mounting

The XT starter is the perfect product solution for IEC applications all over the world. The XT starter is ordered and delivered as a single part number and is compact, space saving, and easy to install. It is the efficient and effective solution for customer motor control applications from 7A to 650A. Eaton's revolutionary design combines XT contactor technology with thermal bimetallic overload relay (or electronic solid state relay is available) combining space-savings with generations of IEC design experience tracing its origins to its engineering roots in 1899 in Bonn, Germany. Contactors and overload relays to be combined easily into non-reversing and reversing contactors, starters, combination motor controllers. Manual Motor Protectors are also available on the website. Ambient temperature range: -25°C to +50°C.

XT IEC MOTOR STARTERS

Full voltage, non-reversing, 3-pole starters with C396 series electronic overload relay. 120VAC coil voltage; screw terminals.

Mfg. Part No.	Load Current Max (A)	Overload Adjustment (A)	Max KW rating at 380V	Max HP rating at 230V	Max HP rating at 460V	Stock No.	Price Each 1-9
XTAE007B10A3E002	7	0.4 - 2	0.55	1/3	3/4	71M0190	129.68
XTAE007B10A3E005	7	1 - 5	1.5	1	2	71M0191	129.68
XTAE007B10A3E008	7	1.6 - 8	3	2	3	71M0192	129.68
XTAE009B10A3E032	9	6.4 - 32	4	3	5	71M0193	219.61
XTAE012B10A3E032	12	6.4 - 32	5.5	5	7-1/2	71M0194	155.11
XTAE015B10A3E032	15	6.4 - 32	7.5	5	10	71M0195	163.74
XTAE018C10A3E032	18	6.4 - 32	7.5	5	10	71M0197	170.36
XTAE025C10A3E032	25	6.4 - 32	11	7-1/2	15	71M0198	187.65
XTAE032C10A3E032	32	6.4 - 32	15	10	20	71M0199	214.09
XTAE040D00A3E045	40	9 - 45	18.5	15	30	71M0200	272.56
XTAE065D00A3E075	65	15 - 75	30	25	50	71M0201	315.79

ACCESSORIES

Mfg. Part No.	Description	For Use With Contactor Range (A)	Stock No.	Price Each 1-9
● XTCEXFAC11	Auxiliary Contact -1NO & 1NC	0-32	51M9114	17.93
● XTCEXFAC20	Auxiliary Contact -2NO	0-32	51M9116	17.93
● XTCEXFCC02	Auxiliary Contact -2NC	0-32	84K7859	17.93
● XTCEXFCC22	Auxiliary Contact -2NO & 2NC	0-32	84K7860	30.76
● XTCEXFAG11	Auxiliary Contact -1NO & 1NC	32-150	57P7191	17.93
● XTCEXFBG20	Auxiliary Contact -2NO	32-150	51M9125	17.93
● XTCEXFBG02	Auxiliary Contact -2NC	32-150	17M8780	17.93
● XTCEXFBG22	Auxiliary Contact -2NO & 2NC	32-150	51M9126	30.76

COMMONING LINKS

XTCEXCLK3B	Commoning Link - 3 contactors	0-15	57P7188	26.69
XTCEXCLK4B	Commoning Link - 4 contactors	0-15	57P7189	30.76
XTCEXCLK5B	Commoning Link - 5 contactors	0-15	57P7190	33.07

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XT CONTROL RELAYS



- DC coil has same physical dimensions as AC coil
- AC control from 12V to 550V 50Hz, 600V 60Hz
- DC control from 12V to 220V
- 4-pole configurations
- IP20 finger and back-of-hand proof



Mini frame control relays and auxiliary contacts for use in various applications. Is the perfect product solution for IEC applications all over the world. Compact, space saving, and easy to install, the XT line is efficient and effective solution for customer applications. Thermal current: 10A. Ambient temperature range: -25°C to +50°C. Available with screw or spring cage terminals.

Mfg. Part No.	Contact Configuration	Coil Voltage	Stock No.	Price Each 1-4	Price Each 5-14
● XTRM10A22A	4PST-2NC/2NO	120VAC	51M9249	32.47	30.31
● XTRM10A22TD	4PST-2NC/2NO	24VDC	51M9250	37.74	35.22
● XTRM10A31A	4PST-3NO/1NC	120VAC	84K7962	32.47	30.31
● XTRM10A40TD	4PST-NO	24VDC	51M9253	37.74	35.22
● XTRM10A40A	4PST-NO	120VAC	51M9252	32.47	30.31
● XTRM10A31TD	4PST-3NO/1NC	24VDC	51M9251	37.74	35.22

(88556)

CONTACTORS/MOTOR STARTERS/AC DRIVES

S701 SOFT START CONTROLLERS



- Solid state unit allows for unlimited START/STOP operations per hour
- Wide control voltage range from 24-480VAC/DC
- Adjustable ramp time for soft start and soft stop of 0.5-10 seconds
- Compact size, DIN rail or panel mount

Specifically designed to be a low cost option for soft starting small (15HP and down) 3-phase motors. Provides the user with the ability to adjust initial torque, ramp up and down time and also select Kick Start for high inertial loads. Designed to be used with a manual motor starter or full voltage starter. UL, cUL listed, CSA certified, CE marked.

Mfg. Part No.	Output Current Max. (A)	Line Voltage (VAC)	Control Voltage (VAC/DC)	Power Rating (HP)		Stock No.	Price Each
				230V	460V		
S701C03N3S	3.5	208-240	24-240	1	...	48K5384	231.51
S701D03N3S	3.5	380-415	24-415	...	...	48K5386	238.06
S701E03N3S	3.5	440-480	24-480	...	1.5	48K5387	238.06
S701G03N3S	3.5	500-600	24-480	...	...	48K5389	243.16
S701C15N3S	15	208-240	24-240	3	...	48K5385	373.47
S701E15N3S	15	380-415	24-480	...	10	48K5388	388.03
S701G15N3S	15	500-600	24-480	...	...	48K5390	422.24
S701C25N3S	25	208-240	24-240	7.5	...	51K9936	599.15
S701E25N3S	25	380-415	24-300	...	15	51K9939	634.82
S701G25N3S	25	500-600	24-300	...	...	51K9941	662.48

(89404)

S752 SOFT START CONTROLLERS



- Built-in protective features including overload protection and phase loss/unbalance
- Built-in bypass contactor for minimal heat generation
- Multiple trip class settings (10, 20 and 30)
- Adjustable ramp times for start and stop of 0 to 30 seconds
- 24VDC control only

Combines the soft starter overload, bypass contactor into one device for fast and easy installation. Designed to be a complete package combining SCRs, bypass contactor and overload in one compact device. UL, cUL listed, CSA certified, CE marked.

Mfg. Part No.	Output Current Max. (A)	Full Load Current (A)		Power Rating (HP)		Stock No.	Price Each
		Min.	Max.	230V	460V		
S752L02N3S	1.9	0.59	1.9	0.33	0.75	48K5397	382.93
S752L04N3S	4.4	1.4	4.4	1	2	48K5400	401.86
S752L09N3S	9	2.8	9	2	5	48K5403	449.91
S752L16N3S	16	5	16	5	10	48K5406	510.33
S752L27N3S	27	8.4	27	7.5	20	51K9944	630.45
S752L50N3S	50	16	50	15	30	51K9947	776.78

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FREEDOM NEMA STARTERS



Starter w/ Solid State Overload Relay



Starter w/ Bimetallic Overload Relay



Just Added

- Features**
- Electronic Overload Relays has broad 5:1 FLA range for maximum flexibility
 - Coverage from 0.05 - 1500 Amps to all your needs
 - Long life twin break, silver cadmium oxide contacts - provide excellent conductivity and superior resistance to welding and are erosion. Generously sized low resistance and cool operation.
 - Steel mounting plate standard on all open type starters

➤ CONTINUED ➤

FREEDOM NEMA STARTERS (CONT.)

Three-phase, full voltage magnetic starters are most commonly used to switch AC motor loads. Starters consist of a magnetically actuated switch (contactor) and an overload relay assembled together. Freedom Series contactors and starters are available from NEMA Size 00-8 and feature a compact space-saving design, state-of-the-art technology and the latest in high strength, impact and temperature resistant insulating materials. Freedom Series contactors and starters are available in a variety of control system voltages. The C396 is a self-powered, robust electronic overload relay designed for integrated use with Freedom NEMA contactors. Meets and exceeds all NEMA, UL, and CSA standards.

NEMA STARTERS WITH SOLID STATE OVERLOAD RELAYS

Mfg. Part No.	Size, FLA	Coil Volts	Cont. Amp Rating	Max. HP 240 VAC	Max. HP 480 VAC	Stock No.	Price Each
AN14ANO3E005	Size 00, 1-5	120	9	1.5	2	08R6463	382.77
AN14ANO3E008	Size 00, 1.6-8	120	9	1.5	2	08R6464	382.77
AN14ANOB3E005	Size 00, 1-5	240	9	1.5	2	08R6465	382.77
AN14ANOB3E008	Size 00, 1.6-8	240	9	1.5	2	08R6466	382.77
AN14BNO3E008	Size 0, 1.6-8	120	18	3	5	08R6467	462.93
AN14BNO3E032	Size 0, 6.4-32	120	18	3	5	08R6468	462.93
AN14BNOB3E008	Size 0, 1.6-8	240	18	3	5	08R6469	462.93
AN14BNOB3E032	Size 0, 6.4-32	240	18	3	5	08R6470	462.93
AN14DNO3E008	Size 1, 1.6-8	120	27	7.5	10	08R6471	513.03
AN14DNO3E032	Size 1, 6.4-32	120	27	7.5	10	08R6472	513.03
AN14DNOB3E008	Size 1, 1.6-8	240	27	7.5	10	08R6473	513.03
AN14DNOB3E032	Size 1, 6.4-32	240	27	7.5	10	08R6474	513.03
AN14GNO3E045	Size 2, 9-45	120	45	10	25	08R6475	927.86
AN14GNOB3E045	Size 2, 9-45	240	45	10	25	08R6476	927.86

NEMA STARTERS WITH BIMETALLIC OVERLOAD RELAYS

Mfg. Part No.	Size	Coil Volts	Cont. Amp Rating	Max. HP 240 VAC	Max. HP 480 VAC	Stock No.	Price Each
AN16ANOAC	Size 00	120	9	1.5	2	45K5735	309.62
AN16ANOBC	Size 00	240	9	1.5	2	45K5736	309.62
AN16BNOAC	Size 0	120	18	3	5	45K5742	386.78
AN16BNOBC	Size 0	240	18	3	5	45K5744	386.78
AN16DNOAB	Size 1	120	27	7.5	10	45K5754	444.89
AN16DNOBB	Size 1	240	27	7.5	10	45K5757	444.89
AN16GNOAB	Size 2	120	45	10	25	45K5767	828.66
AN16GNOBB	Size 2	240	45	10	25	45K5769	828.66

ACCESSORIES FOR NEMA STARTERS

Mfg. Part No.	Description	Motor FLA	Stock No.	Price Each
H2004B-3	Heater Pack, qty 3	0.814-1.32	48K1134	54.75
H2005B-3	Heater Pack, qty 3	1.20-1.96	48K1135	54.75
H2006B-3	Heater Pack, qty 3	1.79-2.90	48K1136	54.75
H2007B-3	Heater Pack, qty 3	2.15-3.49	48K1137	54.75
H2008B-3	Heater Pack, qty 3	3.23-5.23	48K1138	54.75
H2009B-3	Heater Pack, qty 3	4.55-7.40	48K1139	54.75
H2010B-3	Heater Pack, qty 3	6.75-11.0	48K1140	54.75
H2011B-3	Heater Pack, qty 3	9.14-14.0	48K1141	54.75
H2012B-3	Heater Pack, qty 3	14.0-22.8	48K1142	54.75
H2013B-3	Heater Pack, qty 3	18.7-30.7	48K1143	54.75
H2014B-3	Heater Pack, qty 3	23.5-38.5	48K1144	54.75
H2015B-3	Heater Pack, qty 3	29.0-44.1	48K1145	54.75

NEMA AUXILIARY CONTACTS

Mfg. Part No.	Description	Stock No.	Price Each
C320KGS3	NEMA auxiliary contact, side mount, 1NO/1NC	46K3459	48.55
C320KGT3	NEMA auxiliary contact, top mount, 1NO/1NC	46K3491	48.55
C320KGT15	NEMA auxiliary contact, top mount, 2NO/2NC	46K3482	97.10

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VMX SERIES SENSORLESS VECTOR DRIVES

Just Added



- Self-tuning sensorless vector
- Full function PID capability
- Removable NEMA 12 keypad with speed pot
- Serial communication port (RS-485) and Modbus standard



Designed to provide adjustable speed control of three-phase motors, these microprocessor-based, sensorless vector drives have standard features that can be programmed to tailor the drive's performance to suit a wide variety of application requirements. IGBT's provide quiet motor operation, high motor efficiency and smooth low speed performance. All drives come standard with 2 analog inputs, 6 digital inputs, 2 programmable outputs, 1 analog output. 240VAC units 0.5 to 3HP can be utilized with a single-phase or three-phase input allowing the user to operate a three-phase motor with a single-phase supply. Programming software is not required but is available for no charge at commercialcontrols.eaton.com. Dynamic braking resistors and 575VAC versions also available; go online or call.

➤ CONTINUED ➤

CONTACTORS/MOTOR STARTERS/AC DRIVES

MOVX SERIES SENSORLESS VECTOR DRIVES (CONT.)

VECTOR DRIVES

Mfg. Part No.	Supply Voltage (VAC)	Power Rating (HP)	Input Current (A)		Output Current (A)	Stock No.	Price Each
			Single-Phase	Three-Phase			
● MVXF25A0-1	115	0.25	6.3	...	1.6	12N1600	302.40
● MVXF50A0-1	115	0.5	9	...	2.5	12N1601	327.60
● MVX001A0-1	115	1	18	...	4.2	12N1604	344.40
● MVXF50A0-2	230	0.5	6.3	2.9	2.5	12N1602	317.52
● MVX001A0-2	230	1	11.5	6.3	5	12N1605	352.80
● MVX002A0-2	230	2	15.7	8.8	7	12N1607	453.60
● MVX003A0-2	230	3	27.5	12.5	10	12N1609	529.20
● MVX005A0-2	230	5	...	19.6	17	12N1611	617.40
● MVX007A0-2	230	7.5	...	31.5	25	12N1613	1008.00
● MVX001A0-4	460	1	...	4.5	3	12N1606	462.00
● MVX002A0-4	460	2	...	5.7	4	12N1608	487.20
● MVX003A0-4	460	3	...	7	5	12N1610	617.40
● MVX005A0-4	460	5	...	8.5	8.5	12N1612	718.20
● MVX007A0-4	460	7.5	...	14	13	12N1614	1096.20
● MVX010A0-4	460	10	...	20.6	18	12N1615	1377.60

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each
● MVXRM	Keypad Remote Mount Kit With 5m Cable	12N1603	26.46
● MVXCOPY	7 Key Copy Keypad	12N1599	132.72
MVXENC5	NEMA 1 Type Enclosure For Conduit Entry, Small Frame (9.7"H x 4.2"W x 5.7"D)	48K3129	132.72
MVXENCL	NEMA 1 Type Enclosure For Conduit Entry, Large Frame (12.8"H x 5.2"W x 7.4"D)	48K3128	141.12

(89408)

COMPACT VECTOR AC DRIVES



Features:

- AC drives reduce motor wear
- Improve energy efficiency
- Compact size
- Easy-to-apply advanced functions
- High torque at low frequencies

Specifications:

- Control Method: Phase-to-phase sinusoidal modulation PWM
- Output frequency range: 0.5Hz to 400Hz
- Frequency precision: ±0.01% of the max. frequency
- Digital setting: 0.1Hz
- Overload current rating: 150% for 1 min
- Acceleration/Deceleration time: 0.01 to 3000s
- Start torque: 200% min/1Hz
- Carrier frequency modification range: 2.0kHz to 14.0 kHz

Just Added



240V - SINGLE PHASE

Mfg. Part No.	Max. Motor Capacity (kW)	Stock No.	Price Each
			Each
3G3MX-AE002	0.20	09R1996	416.21
3G3MX-AE004	0.40	09R1997	462.38
3G3MX-AE007	0.75	09R1998	559.18
3G3MX-AE015	1.50	09R1999	602.94
3G3MX-AE022	2.20	09R2000	799.94

240V - THREE PHASE

3G3MX-A2002	0.20	09R2001	349.86
3G3MX-A2004	0.40	09R2806	341.00
3G3MX-A2007	0.75	09R2002	459.99
3G3MX-A2015	1.50	57P6392	573.87
3G3MX-A2022	2.20	09R2003	653.56
3G3MX-A2037	3.70	09R2004	799.94
3G3MX-A2055	5.50	09R2005	1222.99
3G3MX-A2075	7.50	09R2006	1462.40

480V - THREE PHASE

3G3MX-A4004	0.40	09R2007	579.35
3G3MX-A4007	0.75	08P3444	635.77
3G3MX-A4015	1.50	09R2008	638.86
3G3MX-A4022	2.20	09R2009	814.64
3G3MX-A4037	3.70	09R2010	885.45
3G3MX-A4055	5.50	09R2011	1093.72
3G3MX-A4075	7.50	09R2012	1316.36

(147946)

MICRO AC DRIVES

Just Added



Features:

- AC drives reduce motor wear
- Improve energy efficiency
- Compact size
- Easy-to-apply advanced functions
- High torque at low frequencies

Specifications:

- Control method Phase-to-phase sinusoidal modulation PWM
- Output frequency range: 0.5Hz to 400Hz
- Frequency precision: ±0.01% of the max. frequency
- Digital setting: 0.1Hz
- Analog setting: Max. frequency/1000
- Overload current rating: 150% for 1min
- Acceleration/Deceleration time: 0.01 to 3000s
- Carrier frequency modification range: 2kHz to 12kHz



240V - SINGLE PHASE

Mfg. Part No.	Max. Motor Capacity (kW)	Stock No.	Price Each
			Each
3G3JX-AE002	0.20	08R0700	303.14
3G3JX-AE004	0.40	09R1978	334.45
3G3JX-AE007	0.75	09R1979	398.09
3G3JX-AE015	1.50	09R1980	457.25
3G3JX-AE022	2.20	09R1981	507.88

240V - THREE PHASE

3G3JX-A2002	0.20	09R1982	259.86
3G3JX-A2004	0.40	09R1983	283.48
3G3JX-A2007	0.75	13N4046	332.97
3G3JX-A2015	1.50	09R1984	404.58
3G3JX-A2022	2.20	09R1985	485.99
3G3JX-A2037	3.70	09R1986	648.10
3G3JX-A2055	5.50	09R1987	919.99
3G3JX-A2075	7.50	09R1988	1128.95

480V - THREE PHASE

3G3JX-A4004	0.40	09R1989	443.92
3G3JX-A4007	0.75	09R1990	480.52
3G3JX-A4015	1.50	09R1991	553.37
3G3JX-A4022	2.20	09R1992	643.64
3G3JX-A4037	3.70	09R1993	758.22
3G3JX-A4055	5.50	09R1994	1007.88
3G3JX-A4075	7.50	09R1995	1173.07

(147947)

8903L SERIES MULTIPOLE LIGHTING CONTACTORS



NEMA 1 Enclosure



Open Style Electrically Held



Open Style Mechanically Held

Features

- 30 A ballast lighting rating, 20 A tungsten lighting rating
- Electrically and mechanically held
- Field-convertible contacts with N.O. and N.C. indicators (8 N.C. contacts maximum)
- Silver-Cadmium-Oxide double break contacts

ELECTRICALLY HELD

Mfg. Part No.	No. of Poles	Coil Voltage Max. (VAC)	Enclosure Type	Stock No.	Price Each
8903LG20V01	2	24	NEMA 1	16B7619	446.00
8903L020V01	2	24	OPEN	16B7663	404.00
8903LG20V02	2	120	NEMA 1	16B7620	446.00
8903L020V02	2	120	OPEN	16B7664	404.00
8903LG30V01	3	24	NEMA 1	16B7626	489.00
8903L030V01	3	24	OPEN	81C3657	446.00
8903LG30V02	3	120	NEMA 1	16B7627	489.00
8903L030V02	3	120	OPEN	16B7667	446.00
8903L040V01	4	24	NEMA 1	17C9410	617.00
8903L040V01	4	24	OPEN	16B7669	575.00

➔ CONTINUED ➔

CONTACTORS/MOTOR STARTERS/AC DRIVES

8903L SERIES MULTIPOLE LIGHTING CONTACTORS (CONT.)

Mfg. Part No.	No. of Poles	Coil Voltage Max. (VAC)	Enclosure Type	Stock No.	Price Each
8903LG40V02	4	120	NEMA 1	16B7629	617.00
8903LO40V02	4	120	OPEN	16B7670	575.00
8903LG60V01	6	24	NEMA 1	16B7634	890.00
8903LO60V01	6	24	OPEN	16B7673	746.00
8903LG60V02	6	120	NEMA 1	16B7635	890.00
8903LO60V02	6	120	OPEN	16B7674	746.00
8903LG80V01	8	24	NEMA 1	16B7640	1160.00
8903LO80V01	8	24	OPEN	16B7678	1017.00
8903LG80V02	8	120	NEMA 1	16B7641	1160.00
8903LO80V02	8	120	OPEN	16B7679	1017.00

MECHANICALLY HELD

8903LXG20V01	2	24	NEMA 1	16B7701	702.00
8903LXO20V01	2	24	OPEN	16B7733	590.00
8903LXG20V02	2	120	NEMA 1	16B7702	702.00
8903LXO20V02	2	120	OPEN	16B7734	590.00
8903LXG30V01	3	24	NEMA 1	16B7705	738.00
8903LXO30V01	3	24	OPEN	81C3710	624.00
8903LXG30V02	3	120	NEMA 1	81C3691	738.00
8903LXO30V02	3	120	OPEN	16B7736	624.00
8903LXG40V01	4	24	NEMA 1	16B7708	761.00
8903LXO40V01	4	24	OPEN	16B7738	647.00
8903LXG40V02	4	120	NEMA 1	16B7709	761.00
8903LXO40V02	4	120	OPEN	16B7739	647.00
8903LXG60V01	6	24	NEMA 1	16B7715	1160.00
8903LXO60V01	6	24	OPEN	16B7742	1044.00
8903LXG60V02	6	120	NEMA 1	16B7716	1160.00
8903LXO60V02	6	120	OPEN	16B7743	1044.00
8903LXG80V01	8	24	NEMA 1	16B7722	1287.00
8903LXO80V01	8	24	OPEN	17C9424	1173.00
8903LXG80V02	8	120	NEMA 1	16B7723	1287.00
8903LXO80V02	8	120	OPEN	16B7746	1173.00

(105823)

DEFINITE PURPOSE CONTACTORS (CONT.)

3-POLE

Mfg. Part No.	Full Load (A)	Resistive Load (A)	Voltage			Stock No.	Price Each
			50Hz	60Hz	115V		
8910DPA43V14	40	50	24	24	3	50F4306	67.56
8910DPA43V02	40	50	110	120	3	50F4308	67.56
8910DPA43V09	40	50	220	208-240	3	50F4307	67.56
8910DPA53V14	50	62	24	24	3	50F4315	133.60
8910DPA53V02	50	62	110	120	3	50F4317	133.60
8910DPA53V09	50	62	220	208-240	3	50F4316	133.60
8910DPA63V02	60	75	110	120	5	50F4323	148.18
8910DPA63V09	60	75	220	208-240	5	50F4322	148.18
8910DPA93V02	90	120	110	120	7.5	50F4335	238.77
8910DPA93V09	90	120	220	208-240	7.5	50F4334	238.77

4-POLE

8910DPA14V02	20	25	110	120	1	50F4284	58.35
8910DPA24V02	25	35	110	120	2	50F4293	66.02
8910DPA34V02	30	40	110	120	2	50F4302	76.01
8910DPA44V02	40	50	110	120	3	50F4311	87.53

(2305)

TESYS D-LINE 9-150A IEC CONTACTORS



- 45mm wide for panel space savings (up to 32A)
- Control motors up to 20HP @ 480VAC, 150A
- Finger-safe terminals and safety cover
- Reduced installation time with quickfit spring terminal system
- Low power consumption DC coils

DEFINITE PURPOSE CONTACTORS



SQUARE D Schneider Electric



2-Pole Compact



2-Pole



3-Pole

- 2-, 3-, and 4-pole versions 600VAC max
- Quick-connect terminals and binder head screws for easy wiring

Definite purpose contactors are ideal for heating, air conditioning, refrigeration, data processing and food service equipment. Includes box lugs on 40A contactors and larger. Coils may also be changed quickly without a tool. Mfg. part no. 9999D snap-on auxiliary contact modules for 8910DPA series fasten on to either side of contactors; ordered separately on this page. Other versions available; go online or call.

2-POLE

Mfg. Part No.	Full Load (A)	Resistive Load (A)	Voltage			HP	Stock No.	Price Each
			50Hz	60Hz	115V			
8910DPA12V02	20	25	110	120	1	50F4278	40.70	
8910DP12V14	20	30	24	24	1	50F4267	29.33	
8910DP12V02	20	30	110	120	1	50F4268	29.33	
8910DPA22V02	25	35	110	120	2	50F4287	44.53	
8910DP32V14	30	40	24	24	2	50F4273	42.24	
8910DPA32V02	30	40	110	120	2	50F4296	54.51	
8910DP32V02	30	40	110	120	2	50F4275	42.24	
8910DP42V14	40	50	24	24	2	17C9487	49.91	
8910DPA42V14	40	50	24	24	3	50F4303	60.65	
8910DPA42V02	40	50	110	120	3	50F4305	60.65	
8910DPA42V09	40	50	220	208-240	3	50F4304	60.65	
8910DPA62V02	60	75	110	120	5	50F4320	142.04	

3-POLE

8910DPA13V02	20	25	110	120	1	50F4281	46.84
8910DPA23V14	25	35	24	24	2	50F4288	51.44
8910DPA23V02	25	35	110	120	2	50F4290	51.44
8910DPA23V09	25	35	220	208-240	2	50F4289	51.44
8910DPA33V14	30	40	24	24	2	50F4297	57.59
8910DPA33V02	30	40	110	120	2	50F4299	57.59
8910DPA33V09	30	40	220	208-240	2	50F4298	57.59

➔ CONTINUED ➔

Mfg. Part No.	Maximum Inductive Current (A)	Maximum Resistive Current (A)	Coil Voltage (VAC)	Stock No.	Price Each
LC1D09B7	9	20	24	31C9326	90.43
LC1D09F7	9	20	110	79C9456	90.43
LC1D09G7	9	20	120	31C9327	90.43
LC1D09U7	9	20	240	31C9328	90.43
LC1D12B7	12	25	24	31C9333	114.48
LC1D12G7	12	25	120	31C9334	114.48
LC1D12U7	12	25	240	31C9335	114.48
LC1D18B7	18	32	24	31C9340	130.84
LC1D18G7	18	32	120	31C9341	130.84
LC1D18U7	18	32	240	31C9342	130.84
LC1D25B7	25	40	24	31C9347	145.27
LC1D25G7	25	40	120	31C9348	145.27
LC1D32B7	32	50	24	31C9354	165.47
LC1D32G7	32	50	120	31C9355	165.47
LC1D40B7	40	60	24	31C9361	262.63
LC1D40G7	40	60	120	31C9362	262.63
LC1D40U7	40	60	240	31C9363	262.63
LC1D50B7	50	70	24	31C9364	281.87
LC1D50G7	50	70	120	31C9365	281.87
LC1D50U7	50	70	240	31C9366	281.87
LC1D65B7	65	80	24	31C9367	387.69
LC1D65G7	65	80	120	31C9368	387.69
LC1D65U7	65	80	240	31C9369	387.69
LC1D80B7	80	110	24	31C9370	349.21
LC1D80G7	80	110	120	31C9371	349.21
LC1D80U7	80	110	240	31C9372	349.21

(2364)

CONTACTORS/MOTOR STARTERS/AC DRIVES

ACCESSORIES FOR D-LINE CONTACTORS



Side Mount 2 Contacts



Front Mount 2 Contacts



Front Mount 4 Contacts

Standard auxiliary contact blocks with rated operational voltage of up to 660V. Rated thermal current: 10A. Mechanical durability: 30 million operating cycles. UL listed, CSA certified, and CE compliant.

AUXILIARY CONTACTS FRONT SNAP-ON MOUNTING

Mfg. Part No.	For Use With	Contacts		Stock No.	Price Each
		N.O.	N.C.		
LADN10	LC1D09 to D80	1	0	79C9277	13.76
LADN11	LC1D09 to D80	1	1	31C9311	21.74
LADN02	LC1D09 to D80	0	2	79C9275	21.74
LADN20	LC1D09 to D80	2	0	79C9279	21.74
LADN22	LC1D09 to D80	2	2	31C9312	43.60
LADN31	LC1D09 to D80	3	1	31C9313	43.60
LADN40	LC1D09 to D80	4	0	31C9314	43.60

AUXILIARY CONTACTS SIDE SNAP-ON MOUNTING

Mfg. Part No.	For Use With	Contacts		Stock No.	Price Each
		N.O.	N.C.		
LAD8N11	LC1D09 to D80	1	1	31C9316	21.74
LAD8N20	LC1D09 to D80	2	0	79C9314	21.74

COIL SUPPRESSORS AND CABLE ACCESSORIES

Mfg. Part No.	Description	Mounting On	Operating Voltage (V) 50/60 Hz	Stock No.	Price Each
LAD4BBVG	Cable Accessory	LC1D09 to D38 LC1DT20 to DT60	50-127	79C9302	24.16
LAD4RCU	Resistor/Capacitor Circuit	LC1D09 to LC1D32 (3P)	110-120	79C9305	27.52
LAD4VG	Varistor Peak Limiting	LC D09 to D32	50-127	79C9307	27.52

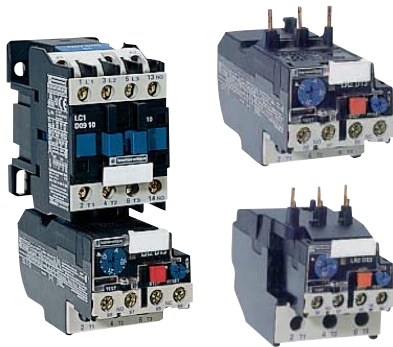
(2367)

IEC CLASS 10 TESYS D-LINE OVERLOAD RELAYS



- Selectable manual/auto reset
- Separate "stop" and "reset" controls
- Ready-to-wire screw terminals
- Ambient compensated, bi-metallic

Designed for direct mounting on underside of D-Line contactors. To create a motor starter, choose a contactor and an overload relay on page 1687. Class 10 without single-phase sensitivity, class 20 with and without single-phase sensitivity also available; go online or call.



Mfg. Part No.	For Contactor Series LC1...	Adjustable Current (A)	Stock No.	Price Each
LRD03	D09 to D32	0.25 - 0.4	31C9375	61.47
LRD05	D09 to D32	0.63 - 1.00	31C9377	61.47
LRD06	D09 to D32	1.00 - 1.70	31C9378	61.47
LRD07	D09 to D32	1.60 - 2.50	31C9379	61.47
LRD08	D09 to D32	2.50 - 4.00	31C9380	61.47
LRD10	D09 to D32	4.00 - 6.00	31C9381	61.47
LRD12	D09 to D32	5.50 - 8.00	31C9382	63.52
LRD14	D09 to D32	7.00 - 10.00	31C9383	63.52
LRD16	D12 to D32	9.00 - 13.00	31C9384	63.52
LRD21	D18 to D32	12.00 - 18.00	31C9385	63.52
LRD22	D25 to D32	16.00 - 24.00	31C9386	63.52
LRD32	D25 to D32	23.00 - 32.00	31C9387	74.79
LRD3322	D40-D80	17.00 - 25.00	31C9388	109.61
LRD3353	D40-D80	23.00 - 32.00	31C9389	109.61
LRD3355	D40-D80	30.00 - 40.00	31C9390	109.61

➔ CONTINUED ➔

IEC CLASS 10 TESYS D-LINE OVERLOAD RELAYS (CONT.)

Mfg. Part No.	For Contactor Series LC1...	Adjustable Current (A)	Stock No.	Price Each
LRD3357	D40-D80	37.00 - 50.00	31C9391	109.61
LRD3361	D50-D80	55.00 - 70.00	31C9393	130.10
LRD3363	D65-D80	63.00 - 80.00	31C9394	130.10

DIN RAIL MOUNTING KIT

Mfg. Part No.	For Use With	Stock No.	Price Each
LA7D3064	LRD3322 to LRD3363	15B9758	17.93

(2366)

IEC K-LINE OVERLOAD RELAYS



- Class 10
- Manual or auto reset
- Full load current dial
- Single-phase sensitivity
- AC or DC protection
- Ambient compensated bi-metallic



For 3-pole contactors with screw-clamp terminals.

RELAYS

Mfg. Part No.	Adjustable Current Range (A)	Stock No.	Price Each
● LR2K0304	0.036 to 0.054	16B727	56.15
● LR2K0305	0.054 to 0.8	42M2230	56.15
● LR2K0306	0.8 to 1.2	16B729	56.15
● LR2K0307	1.2 to 1.8	42M2231	56.15
● LR2K0308	1.8 to 2.6	16B731	56.15
● LR2K0310	2.6 to 3.7	42M2232	56.15
● LR2K0312	3.8 to 5.5	42M2233	56.15
● LR2K0314	5.5 to 8.0	16B734	56.15
● LR2K0316	8.0 to 11.5	16B735	56.15

TERMINAL BLOCK

Mfg. Part No.	Description	Stock No.	Price Each
LA7K0064	For separate clip-on mounting of the overload relay onto 35mm omega rail AM1DP200. Screw-clamp termination.	15B9778	11.33

(60173)

AUXILIARY CONTACT BLOCKS FOR K-LINE CONTACTORS



Standard auxiliary contact blocks have clip-on mounting. Rated 240V @ 2 Amp. Screw clamp connection. Mechanical durability: 30 million operating cycles. For use with K-Line mini IEC contactors on page 1689



Mfg. Part No.	For Use With	Contacts		Stock No.	Price Each
		N.O.	N.C.		
LA1KN04	LC1K06-K12	...	4	15B9586	13.51
LA1KN11	LC1K06-K12	1	1	92F5946	13.51
LA1KN20	LC1K06-K12	2	...	15B9589	13.51
LA1KN22	LC1K06-K12	2	2	96B0177	23.28
LA1KN40	LC1K06-K12	4	...	15B9593	13.51

(50988)

GV2 SERIES MANUAL MOTOR STARTERS



- For Control of Motors With Full Load Current Up to 32A

GV2 series manual motor starters comprise a manual isolation switch, an overload relay, and an instantaneous magnetic trip mechanism in one compact device. Snap onto 35mm DIN rails. Rated voltage: 600. Rated thermal current is 25A. Interrupting current at 480V is 12kA. Shock resistance is 30g per IEC 600 68-2. Vibration resistance is 5g (5 to 150 Hz) per IEC 600 68. Available with spring terminal clamps-add "3" to end of type number. Conform to IEC standards. Dimensions: 1.77H x 1.73W x 3.42"D. UL listed, CSA certified, and CE compliant. Order auxiliary contact blocks and enclosures separately; on pages 1687-1688. Go online or call.



➔ CONTINUED ➔

CONTACTORS/MOTOR STARTERS/AC DRIVES

GV2 SERIES MANUAL MOTOR STARTERS (CONT.)

Mfg. Part No.	Current (A)	Stock No.	Price Each
● GV2ME06	1.00-1.60	18M2076	133.31
● GV2ME07	1.60-2.50	18M2077	133.31
● GV2ME08	2.50-4.00	18M2078	133.31
● GV2ME10	4.00-6.30	18M2079	133.31
● GV2ME14	6.00-10.00	31C9302	133.31
● GV2ME16	9.00-14.00	18M2080	165.90
● GV2ME20	13.00-18.00	31C9304	165.90
● GV2ME21	17.00-23.00	18M2081	165.90
● GV2ME32	24.00-32.00	18M2083	165.90

(2370)

ATS SERIES TORQUE LIMITING SOFT STARTS



Features

- Maximum load voltage: 460 V
- Side-by-side mounting to minimize panel space
- Pass through wiring: input power on top, motor terminals on bottom
- Two indicator lights for quick status check
- Analog adjustment knobs

The Altistart® 01 soft start enhances starting performance by ensuring a smooth and controlled start for asynchronous motors, while providing torque surge suppression during both the starting and stopping operation. The Altistart 01 features simple installation through DIN rail mounting and a removable control wiring terminal.

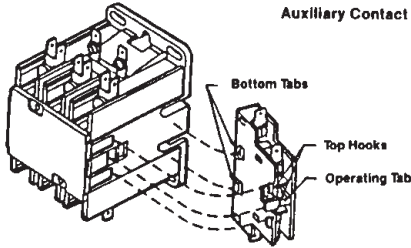
Mfg. Part No.	Full Load Current (A)	Power Rating, 3-Phase (kW)	Horsepower (hp)	Frame Size	Stock No.	Price Each
● ATSO1N103FT	3	1.1	0.25	1.5	19K8986	127.65
● ATSO1N106FT	6	2.2	0.5	3	11R7883	142.83
● ATSO1N109FT	9	4	1	5	19K8988	165.95
● ATSO1N112FT	12	5.5	2	7.5	11R7884	174.09

(105826)

AUXILIARY CONTACTS FOR DPA SERIES CONTACTORS



Auxiliary Contact



9999D Auxiliary Contact Installation

Mfg. Part No.	Contacts		Stock No.	Price Each
	N.O.	N.C.		
9999D10	1	0	50F4336	19.89
9999D01	0	1	50F4337	19.89
9999D11	1	1	50F4338	35.79

(2306)

K-LINE MINI IEC CONTACTORS



- Available up to 10HP @ 600VAC
- Captive, Screw Terminal, Slip-On Terminal, or Terminal Pin Wiring Available

Ideal as non-reversing, AC control circuit contactors for lighting and motor circuit applications. Snap-on accessories includes two or four auxiliary contact blocks, electric on-delay times and transient voltage suppressors; go online or call Newark. Ambient compensated. Includes single-phase sensitivity for phase unbalance and phase loss protection. Also available in 9 and 12A; go online or call Newark.



FASTON TERMINALS

Mfg. Part No.	FL (A)	Coil Voltage (VAC)		Auxiliary Contacts		Stock No.	Price Each
		50Hz	60Hz	N.O.	N.C.		
LC1K06017F7	6	110	110	0	1	16B229	54.84

SADDLE CLAMP TERMINALS

LC1K0610B7	6	24	24	1	0	92F5939	54.84
LC1K0601F7	6	110	120	0	1	92F5943	54.84
LC1K0610F7	6	110	110	1	0	92F5940	54.84
LC1K0910B7	9	24	24	1	0	96B0192	72.15
LC1K0910F7	9	110	110	1	0	96B0193	72.15

SOLDER PIN TERMINALS

LC1K06105B7	6	24	24	1	0	96B0191	54.84
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(2365)

FULL VOLTAGE STARTERS



SQUARE D Schneider Electric



S series magnetic starters are used for full-voltage starting and stopping of AC squirrel cage motors. Motor overload protection is provided via melting alloy type thermal overload relays. These ambient insensitive overload relays are available on NEMA sizes 00 through 6 and standard on size 7, and are designed for operation at 600 VAC, 50 to 60 Hz. They provide phase loss, phase unbalance protection and a power LED indication. To order add Form H10 (for Class 10), H20 (for Class 20), H30 (for selectable trip class protection).

NEMA 1 GENERAL PURPOSE ENCLOSURE

Mfg. Part No.	Continuous Current (A)	Coil Voltage (VAC)	Stock No.	Price Each
8536SAG12V02S	9	120	16B6855	298.42
8536SBG2V02S	18	120	16B6899	368.93
8536SBG2V03	18	240	16B6900	368.93
8536SCG3V02S	27	120	16B6990	420.21
8536SCG3V03	27	240	16B6991	420.21
8536SDG1V02S	45	120	16B7065	826.18

OPEN TYPE

8536SA012V02S	9	120	16B6871	274.92
8536SB02V02H20S	18	120	16B6938	391.01
8536SB02V02S	18	120	16B6941	345.43
8536SC03V02H20S	27	120	16B7028	441.58
8536SC03V02S	27	120	16B7031	396.72
8536SD01V02H20S	45	120	16B7090	766.36
8536SD01V02S	45	120	16B7093	720.06
8536SE01V02S	90	120	16B7140	1166.61

(83536)

ALITVAR® 11 AC DRIVES



Features:

- DIN rail mount: Compact design in an IP20 enclosure
- Sensorless flux vector control for improved low-speed torque
- Analog output
- Screw clamp terminal for easy wiring
- Rated to 50°C
- Adjustable switching frequencies up to 16kHz



ATV11H



ATV11P



7

115V SINGLE PHASE INPUT, 230V THREE PHASE OUTPUT

Mfg. Part No.	Supply Voltage (VAC)	Power Rating (HP)	Output Current (A)	Stock No.	Price Each
					1-9
● ATV11HU05F1U	115	0.25	1.6	11R7885	200.94
● ATV11HU18F1U		1	4.6	11R7889	244.23
● ATV11PU09F1U	115	0.5	2.4	11R7896	208.70

230V SINGLE PHASE INPUT, 230V THREE PHASE OUTPUT

● ATV11HU05M2U	230	0.25	1.6	11R7886	200.94
● ATV11HU09M2U	230	0.5	2.4	87C1964	214.37
● ATV11HU18M2U	230	1	4.6	11R7890	244.23
● ATV11HU29M2U	230	2	7.5	11R7892	316.39
● ATV11HU41M2U	230	3	10.6	11R7894	379.67

230V THREE PHASE INPUT, 230V THREE PHASE OUTPUT

● ATV11PU09M2U	230	0.5	2.4	11R7897	208.70
● ATV11PU18M2U	230	1	4.6	11R7898	244.23
● ATV11HU05M3U	230	0.25	1.6	11R7887	184.29
● ATV11HU09M3U	230	0.5	2.4	11R7888	192.05
● ATV11HU18M3U		1	4.6	11R7891	224.26

➤ CONTINUED ➤

CONTACTORS/MOTOR STARTERS/AC DRIVES

ALITVAR® 11 AC DRIVES (CONT.)

230V THREE PHASE INPUT, 230V THREE PHASE OUTPUT

Mfg. Part No.	Supply Voltage (VAC)	Power Rating (HP)	Output Current (A)	Stock No.	Price Each
					1-9
● ATV11HU29M3U		2	7.5	11R7893	290.86
● ATV11HU41M3U	230	3	10.6	11R7895	348.58

(90806)

AC POWER CONTACTORS



- 122 Series
- 2PNO contacts
 - Straight-thru wiring
 - 1/4" Auxiliary quick-connect terminals

Screw power terminals for #10 solid wire maximum, double-make contacts. 2.750H x 2.020W x 3.160"D (69.85 x 51.31 x 80.26). UL recognized, CSA certified.

Mfg. Part No.	Coil Volts (50/60Hz)	Contact Rating		Stock No.	Price Each
		Inductive	Resistive		1-9
122-901	24VAC	30A Cont; 150A Inrush @ 277VAC	40A @ 600VAC	93F7668	22.64
122-902	120VAC	75 @ 480V 50 @ 600V	40A @ 600VAC	93F7669	22.84
122-903	208/240VAC			93F7670	22.64
122-905	24VAC	40A Cont; 200A Inrush @ 277VAC	40A @ 600VAC	93F7671	23.82
122-907	208/240VAC	100A @ 480V 80A @ 600V		93F7673	23.82

(4000)

AC POWER CONTACTORS



- 154 Series
- 1/4" Double QC 3PNO Terminals
 - Interchangeable Mounting
 - Low Coil Wattage
 - Double-Break Controls
 - Low Temperature Rise

Mfg. Part No.	Coil Volts (50/60Hz)	Contact Rating		Stock No.	Price Each
		Inductive	Resistive		1-9
154-904	24VAC	Continuous 25A @ 600V Inrush; 150A @ 277V, 125A @ 480V, 100A @ 600V	35A @ 600VAC (Max.)	60F2653	41.10
154-905	120VAC			60F2654	41.10
154-907	24VAC	Continuous 30A @ 600V Inrush; 180A @ 277V, 150A @ 480V, 120A @ 600V	40A @ 600VAC (Max.)	60F2656	56.29
154-908	120VAC			60F2657	58.11
154-910	24VAC	Continuous 40A @ 600V Inrush; 240A @ 277V, 200A @ 480V, 160A @ 600V	50A @ 600VAC (Max.)	60F2659	59.11
154-911	120VAC			60F2661	59.11
154-912	208/240VAC			60F2663	59.11

(3999)

80-AMP DC POWER CONTACTORS



- UL 583 Recognized
- Silver Alloy or Copper Contact
- Dust-Resistant
- Dimensions: SPNO: 2.5H x 3.5W x 2.5"D or SPDT: 3.375H x 3.563W x 2.5"D



4-Terminal



6-Terminal

70 series are bracket mounting with 2.109" (53.57) centers. Contact rating: 80A @ 6 and 12VDC, 50A @ 24 and 36VDC. 300A inrush @ 6VDC, 150A @ 12VDC, 50A inrush @ 24 and 36VDC. Coil rating: 9W.

Mfg. Part No.	Contacts	Coil Voltage (VDC)	Coil Circuit and No. of Terminals*	Stock No.	Price Each
					1-9
● 70-901	SPNO	6	Isolated, 4	60F2725	20.07
● 70-902	SPNO	12	Isolated, 4	35M2084	20.43

➔ CONTINUED ➔

80-AMP DC POWER CONTACTORS (CONT.)

Mfg. Part No.	Contacts	Coil Voltage (VDC)	Coil Circuit and No. of Terminals*	Stock No.	Price Each
					1-9
● 70-906	SPNO	12	Isolated, 4	35M2086	41.84
● 70-910	SPDT	12	Isolated, 6	35M2087	71.89
● 70-914	SPNO	12	Grounded, 3A	35M2089	20.82
● 70-918	SPNO	12	Common, 3B	60F2694	20.82
● 70-922	SPDT	12	Isolated, 6	35M2090	46.99
● 70-903	SPNO	24	Isolated, 4	60F2727	20.54
● 70-907	SPNO	24	Isolated, 4	60F2677	41.94
● 70-911	SPDT	24	Isolated, 6	35M2088	70.83
● 70-915	SPNO	24	Grounded, 3A	60F2693	20.93
● 70-923	SPDT	24	Isolated, 6	35M2091	45.05
● 70-904	SPNO	36	Isolated, 4	35M2085	20.38

*A = Coil ground to case; B = Coil common to load; NOTE: 3A Grounding coil wire supplied, 4 terminals. A back-up wrench must be used to hold the bottom nut stationary. (3960)

100-AMP HEAVY-DUTY DC POWER CONTACTORS



4-Terminal



6-Terminal (124-910)



6-Terminal (124-912)

- Dust-Resistant Cover
- Ideal for Mobile DC Equipment

- Silver Alloy Contacts

124 series feature 100A continuous; 400A inrush. Maximum continuous coil watts: 12 at rated voltage. Maximum pick-up: 75% rated coil voltage, with design ambient from -40°C to +65°C. Contact termination: 5/16"-24 UNA-2A stud. Coil termination: #10-32 UNF-2A thread. 3-terminal versions have grounded coil; 4- and 6-terminal versions have isolated coil. Dimensions in inches.

Mfg. Part No.	Contacts	Coil Voltage (VDC)	Coil Circuit and No. of Terminals	Stock No.	Price Each
					1-14
● 124-902	SPNO	12	Isolated, 4	35M0121	36.81
● 124-906	SPNO	12	Grounded, 3	35M0123	36.81
● 124-910	SPDT	12	Isolated, 6	02F1142	57.12
● 124-903	SPNO	24	Isolated, 4	35M0122	36.81
● 124-911	SPDT	24	Isolated, 6	35M0124	57.12
124-904	SPNO	36	Isolated, 4	02F1136	36.81
● 124-912	SPDT	36	Isolated, 6	35M0125	100.18

(3957)

100-AMP HEAVY-DUTY DC POWER CONTACTORS



Just Added

120 series durable, water-resistant, continuous-duty contactors are ideal for high-temperature and high-vibration conditions. Isolated coil. Circuits: SPNO. Rated 100A full load, 400A inrush. Contacts: silver-alloy. Dimensions in inches. Copper contacts also available; go online or call.

Mfg. Part No.	Coil Voltage (VDC)	Coil Ohms	Stock No.	Price Each
				1-9
● 120-901	12	16.0	50F3662	19.54
● 120-907*	12	16.0	35M0072	19.94
● 120-913	12	16.0	31C7926	18.64
● 120-902	15	20.8	50F3663	19.54
● 120-904	24	64.0	50F3665	19.54
● 120-905	36	160.0	17P5846	18.66

*L-bracket (3959)

200 AND 500 AMP SEALED DC POWER CONTACTORS



- 586 Series
- Continuous duty, coil
 - 200A cont., 600A inrush
 - Silver alloy contacts
 - Water and dust resistant
 - Suited for high vibration applications



686 Series



Mfg. Part No.	Contacts	Coil Voltage (VDC)	Coil Ohms	Coil Circuit and No. of Terminals	Stock No.	Price Each
						1-9
● 586-902	SPNO	12	21.0	Isolated, 4	35M1913	52.98
● 586-911	SPDT	12	13.2	Isolated, 6	35M1916	77.36

➔ CONTINUED ➔

CONTACTORS/MOTOR STARTERS/AC DRIVES

200 AND 500 AMP SEALED DC POWER CONTACTORS (CONT.)

Mfg. Part No.	Contacts	Coil Voltage (VDC)	Coil Ohms	Coil Circuit and No. of Terminals	Stock No.	Price Each
						1-9
● 586-903	SPNO	15	32.8	Isolated, 4	16C2038	54.67
● 586-905	SPNO	24	84.0	Isolated, 4	35M1914	52.98
● 586-914	SPDT	24	53.0	Isolated, 6	35M1917	79.39
● 586-906	SPNO	36	189.0	Isolated, 4	35M1915	52.26

686 SERIES

Continuous duty, coil, 500A cont., 1200A inrush. Copper contacts. Water and dust resistant.

● 686-901	SPNO	12-36	3.3	Isolated, 4	88K2500	249.51
● 686-902	SPNO	48-96	3.3	Isolated, 4	88K2501	254.50

(3961)

MOTOR REVERSING CONTACTORS



- AC or DC operation
- One set of 3PST - NO contacts per coil
- Dual coils - mechanically interlocked
- Double make power contacts
- Up to 3 horsepower at 600VAC
- Up to 4 auxiliary contacts - 5A each



The A275 series relay is a 2-coil, compact motor reversing contactor. Rated 1.5HP, 240VAC (Phase 1); 3HP, 240VAC (Phases 2 & 3); 3HP, 480/600VAC. Dimensions: 2.98L x 2.73W x 3.62"H. UL recognized File No. E13224, CSA certified. 240VAC model and 7.5Hp 575 series also available; go online or call Newark.

AC COIL VOLTAGE

Mfg. Part No.	Coil Voltage	Coil Resist. (Ω)	Stock No.	Price Each	
				1-24	25-49
A275KXX-24VAC	24	4.63	60F3177	151.29	144.39
A275KXX-120VAC	120	125	60F3178	78.01	74.46
A275KXX-240VAC	240	500	60F3179	178.12	170.76

AC WITH 1 SPDT AUXILIARY SWITCH PER COIL

A275KXX90-24VAC	24	4.63	70B5424	180.77	172.52
A275KXX90-120VAC	120	125	89F1872	225.96	215.65
A275KXX90-240VAC	240	500	93K5783	178.12	170.76

AC WITH 2 SPDT AUXILIARY SWITCH PER COIL

A275KXX91-24VAC	24	4.63	60F3062	167.53	159.89
A275KXX91-120VAC	120	125	60F3063	210.24	200.65
A275KXX91-240VAC	240	500	98F4088	207.16	198.60

DC COIL VOLTAGE

A275KXX-24VDC	24	125	99F4798	151.29	144.39
A275KXX-115VDC	115	3240	93K5781	149.08	142.92

DC WITH 1 SPDT AUXILIARY SWITCH PER COIL

A275KXX90-24VDC	24	125	26H0733	178.12	170.76
A275KXX90-115/125VDC	115	3240	93K5782	178.12	170.76

DC WITH 2 SPDT AUXILIARY SWITCH PER COIL

A275KXX91-24VDC	24	125	70B7299	207.16	198.60
A275KXX91-115VDC	115	3240	50B7425	207.16	198.60

(3976)

KILOVAC 500A CONTACTORS



Bottom Mount



Side Mount

- Optional auxiliary contact for easy monitoring of power contact position
- Versatile coil/power connections
- Designed and built in accordance to AIAG QS9000
- Contacts: SPST-NO-DM

Intrinsically safe, operates in explosive/harsh environments with no oxidation or contamination of coils or contact, including long periods or non-operation. Series LEV100 100A contactors also available; go online or call.

Mfg. Part No.	Coil Voltage (VDC)	Coil Wire Length inches (mm)	Coil Terminal Connector	Mounting & Power Terminals	Stock No.	Price Each
						1-2
● LEV200A4ANA	12	15.3(390)	Wire Leads	Bottom & 10mm x M8	45M6266	130.17
● LEV200A4NAF	12	...	Stud	Side & 10mm x M8	45M6267	118.88
● LEV200A5ANA	24	15.3(390)	Wire Leads	Bottom & 10mm x M8	45M6268	146.55

➤ CONTINUED ➤

KILOVAC 500A CONTACTORS (CONT.)

Mfg. Part No.	Coil Voltage (VDC)	Coil Wire Length inches (mm)	Coil Terminal Connector	Mounting & Power Terminals	Stock No.	Price Each
						1-2
● LEV200A5NAF	24	...	Stud	Side & 10mm x M8	45M6269	138.42
● LEV200A6NAA	48	...	Stud	Bottom & 10mm x M8	45M6270	138.42

(94467)

KILOVAC SEALED POWER CONTACTORS



EV200 contactors are designed to be the smallest, lightest weight, lowest cost sealed contactors in the industry with their current ratings. Feature built-in coil economizers permitting a low coil holding power of 1.7W @ 12VDC and limiting back EMF to 0V. Applications for these intrinsically safe contactors include electric vehicles and industrial controls. SPST-NO main contacts can switch 500A. An optional SPST-NO auxiliary contact set is rated 2A. Mounting base has 2 holes (0.225") on 2.688" centers. Approximate size: 2.58" x 3.17" x 2.85" tall.



Mfg. Part No.	Max. Isolation Voltage VDC	Max. Carry Current Amps	Power Switch	Contact Arrangement	Coil Voltage VDC	Stock No.	Price Each
							1-2
EV200AAANA	12-1800	500	Make & Break	SPST-NO	9-36	09J3878	149.99
EV200HAANA	12-1800	500	Make & Break	SPST-NO+ SPST-NO Aux.	9-36	09J3879	170.20

(80117)

PBC SERIES IEC CONTACTORS AND OVERLOAD RELAYS



Just Added



Contactors

Overload Relay

Features:

- Three pole switching (main contacts) plus integral auxiliary contacts
- PBO series bimetallic thermal overload relays
- Designed to snap onto DIN rail or mount directly to a panel with screws
- Efficient 50/60 Hz coils (50 Hz or 60 Hz coils optional)
- Finger-safe (IP 20) terminals
- Modular design allows contactors and accessories to snap together
- Ideal for: Motion control, HVAC systems, elevator controls, and industrial machine control

Specifications:

- Contact arrangement: 3 Form X (3PST-NO-DM)
- Initial Dielectric Strength: 2.500V
- Operating temperature: -5°C to +40°C
- Maximum altitude: 2000m
- Pollution Class: 3
- Vibration: 2 to 13.2Hz
- Shock resistance: 13.2 to 100Hz

7

CONTACTORS

Mfg. Part No.	Load Current (A)	Coil Voltage (VAC)	Auxiliary Contacts	Stock No.	Price Each	
					1-14	15-24
● PBC-009A1B7	9	24	1NO	12N2858	26.88	24.65
● PBC-009A2B7	9	24	1NC	12N2863	26.88	24.65
● PBC-009A2E7	9	48	1NC	12N2864	33.91	32.25
● PBC-009A1E7	9	48	1NO	12N2859	26.29	24.03
● PBC-009A1F7	9	120	1NO	12N2860	26.88	24.65
● PBC-009A2F7	9	120	1NC	12N2865	33.91	32.25
● PBC-009A1M7	9	240	1NO	12N2861	28.59	26.20
● PBC-009A2M7	9	240	1NC	12N2866	37.05	35.56
● PBC-009A1Q	9	380	1NO	12N2862	37.05	35.56
● PBC-009A2Q	9	380	1NC	12N2867	37.05	35.56
● PBC-012A1B7	12	24	1NO	12N2868	28.66	26.29
● PBC-012A2B7	12	24	1NC	12N2873	28.66	26.29
● PBC-012A1E7	12	48	1NO	12N2869	37.16	35.76
● PBC-012A2E7	12	48	1NC	12N2874	37.16	35.76
● PBC-012A1F7	12	120	1NO	12N2870	28.66	26.29
● PBC-012A2F7	12	120	1NC	12N2875	37.16	35.76
● PBC-012A1M7	12	240	1NO	12N2871	30.20	27.69
● PBC-012A2M7	12	240	1NC	12N2876	39.11	37.96
● PBC-012A2Q	12	380	1NC	12N2877	39.11	37.96
● PBC-012A1Q	12	380	1NO	12N2872	39.11	37.96

➤ CONTINUED ➤

CONTACTORS/MOTOR STARTERS/AC DRIVES

PBC SERIES IEC CONTACTORS AND OVERLOAD RELAYS (CONT.)

Mfg. Part No.	Load Current (A)	Coil Voltage (VAC)	Auxiliary Contacts	Stock No.	Price Each	
					1-14	15-24
● PBC-025A1B7	25	24	1NO	12N2878	47.02	43.11
● PBC-025A2B7	25	24	1NC	12N2883	61.81	58.96
● PBC-025A1E7	25	48	1NO	12N2879	61.81	58.96
● PBC-025A2E7	25	48	1NC	12N2884	61.81	58.96
● PBC-025A1F7	25	120	1NO	12N2880	47.02	43.11
● PBC-025A2F7	25	120	1NC	12N2885	61.81	58.96
● PBC-025A2M7	25	240	1NC	12N2886	64.36	61.12
● PBC-025A1M7	25	240	1NO	12N2881	48.96	44.88
● PBC-025A2Q	25	380	1NC	12N2887	64.36	61.12
● PBC-025A1Q	25	380	1NO	12N2882	64.36	61.12
● PBC-032A2B7	32	24	1NC	12N2893	62.63	57.24
● PBC-032A1B7	32	24	1NO	12N2888	64.05	58.71
● PBC-032A2E7	32	48	1NC	12N2894	76.54	69.96
● PBC-032A1E7	32	48	1NO	12N2889	62.63	57.24
● PBC-032A2F7	32	120	1NC	12N2895	62.63	57.24
● PBC-032A1F7	32	120	1NO	12N2890	64.05	58.71
● PBC-032A2M7	32	240	1NC	12N2896	62.63	57.24
● PBC-032A1M7	32	240	1NO	12N2891	64.05	58.71
● PBC-032A2Q	32	380	1NC	12N2897	76.54	69.96
● PBC-032A1Q	32	380	1NO	12N2892	76.54	69.96
● PBC-040A3B7	40	24	1NO/1NC	12N2898	100.75	92.36
● PBC-040A3E7	40	48	1NO/1NC	12N2899	100.75	92.36
● PBC-040A3F	40	110	1NO/1NC	12N2900	100.75	92.36
● PBC-040A3M	40	220	1NO/1NC	12N2901	100.75	92.36
● PBC-040A3Q	40	380	1NO/1NC	12N2902	100.75	92.36
● PBC-050A3B7	50	24	1NO/1NC	12N2903	131.59	120.29
● PBC-050A3E7	50	48	1NO/1NC	12N2904	128.34	117.30
● PBC-050A3F	50	110	1NO/1NC	12N2905	131.59	120.29
● PBC-050A3M	50	220	1NO/1NC	12N2906	131.23	120.29
● PBC-050A3Q	50	380	1NO/1NC	12N2907	156.86	143.37
● PBC-065A3B7	65	24	1NO/1NC	12N2908	158.18	144.57
● PBC-065A3E7	65	48	1NO/1NC	12N2909	193.31	176.69
● PBC-065A3F	65	110	1NO/1NC	12N2910	161.73	148.25
● PBC-065A3M	65	220	1NO/1NC	12N2911	161.73	148.25
● PBC-065A3Q	65	380	1NO/1NC	12N2912	193.31	176.69
● PBC-080A3B7	80	24	1NO/1NC	12N2913	196.51	179.61
● PBC-080A3E7	80	48	1NO/1NC	12N2914	196.51	179.61
● PBC-080A3F	80	110	1NO/1NC	12N2915	200.88	184.18
● PBC-080A3M	80	220	1NO/1NC	12N2916	200.88	184.18
● PBC-080A3Q	80	380	1NO/1NC	12N2917	196.51	179.61

OVERLOAD RELAYS

Mfg. Part No.	Current Setting		For Use With	Stock No.	Price Each
	Min	Max			
● PBO-09P1016	100mA	160mA	9 to 32A IEC Contactors	12N2924	53.90
● PBO-09P1625	160mA	250mA	9 to 32A IEC Contactors	12N2925	53.90
● PBO-09P2540	250mA	400mA	9 to 32A IEC Contactors	12N2926	53.90
● PBO-09P4063	400mA	630mA	9 to 32A IEC Contactors	12N2927	53.90
● PBO-09P6310	630mA	1A	9 to 32A IEC Contactors	12N2928	40.99
● PBO-09D1016	1A	1.6A	9 to 32A IEC Contactors	12N2919	53.90
● PBO-09D1625	1.6A	2.5A	9 to 32A IEC Contactors	12N2920	53.90
● PBO-09D2540	2.5A	4A	9 to 32A IEC Contactors	12N2921	53.90
● PBO-09D4060	4A	6A	9 to 32A IEC Contactors	12N2922	53.90
● PBO-09D5580	5.5A	8A	9 to 32A IEC Contactors	12N2923	40.99
● PBO-09A0710	7A	10A	9 to 32A IEC Contactors	12N2918	40.99
● PBO-12A0913	9A	13A	12 to 32A IEC Contactors	12N2929	41.97
● PBO-18A1218	12A	18A	18 to 32A IEC Contactors	12N2930	47.28
● PBO-25A1725	17A	25A	25 to 32A IEC Contactors	12N2931	66.59
● PBO-32A2332	23A	32A	32A IEC Contactors	12N2932	79.27
● PBO-40A2332	23A	32A	40 to 80A IEC Contactors	12N2933	81.05
● PBO-40A3040	30A	40A	40 to 80A IEC Contactors	12N2934	106.54
● PBO-50A3750	37A	50A	50 to 90A IEC Contactors	12N2935	110.98

(119501)

Expert technical support

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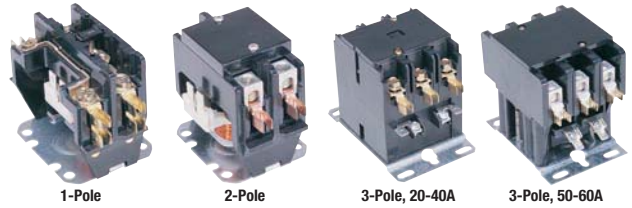
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PRODUCTS UNLIMITED 1-3 POLE DEFINITE PURPOSE CONTACTORS

RoHS Compliant Available

Tyco Electronics

Just Added



- 1-, 2- and 3-pole contactors
- Universal mounting plate
- Arc cover

- Shunt available on 1-pole models
- Optional interlock/auxiliary switches available on 3-pole models

Contact termination: #10-32 screw with quad 0.25" (6.35mm) quick connects or box lug with dual 0.25" (6.35mm) quick connects. Coil termination: dual 0.25" (6.35mm) quick connects. Model 98 - 3100 series features standard manual test button, coil dust cover and double E magnet system. "Y" in mfg. part no. denotes individual pack.

MODEL 93 - 3100 SERIES 1-POLE, SPST-NO-DM

Mfg. Part No.	Contact Carry Current (A)	Coil Voltage (VAC)	Relay Terminals	Torque (in.-lbs.)	Stock No.	Price Each
● 3100-15Q1999*	25	24	Screw w/Q.C.	25	29M9092	13.74
● 3100-15T1999*	25	120	Screw w/Q.C.	25	29M9096	13.74
● 3100-15U1999*	25	208/240	Screw w/Q.C.	25	29M9100	14.00
● 3100-15Q2999*	30	24	Screw w/Q.C.	25	52M1798	14.45
● 3100S15Q2999*†	30	24	Screw w/Q.C.	25	52M1799	15.28
● 3100-15Q2999C	30	24	Box Lug w/Q.C.	25	29M9095	15.33
● 3100-15T2999C	30	120	Screw w/Q.C.	25	29M9099	15.33
● 3100-15U2999*	30	208/240	Screw w/Q.C.	25	29M9102	14.74
● 3100-15U2999C	30	208/240	Screw w/Q.C.	25	29M9103	15.03
● 3100-15U2999CL	30	208/240	Box Lug w/Q.C.	40	29M9104	17.27
● 3100-15V2999CL	30	277	Box Lug w/Q.C.	40	29M9105	17.27
● 3100-15Q19999CL	40	24	Box Lug w/Q.C.	40	29M9093	22.85
● 3100-15T19999CL	40	120	Box Lug w/Q.C.	40	29M9097	22.84
● 3100-15U19999CL	40	208/240	Box Lug w/Q.C.	40	29M9101	22.40

MODEL 93 - 3100 SERIES 2-POLE, DPST-NO-DM

Mfg. Part No.	Contact Carry Current (A)	Coil Voltage (VAC)	Relay Terminals	Torque (in.-lbs.)	Stock No.	Price Each
● 3100-20Q5999*	25	24	Screw w/Q.C.	25	29M9108	28.37
● 3100-20Q5999C	25	24	Screw w/Q.C.	25	29M9109	29.86
● 3100-20T5999*	25	120	Screw w/Q.C.	25	29M9114	28.93
● 3100-20T5999C	25	120	Screw w/Q.C.	25	29M9115	29.27
● 3100-20U5999*	25	208/240	Screw w/Q.C.	25	29M9121	28.37
● 3100-20U5999C	25	208/240	Screw w/Q.C.	25	29M9122	24.57
● 3100N20U5999C‡	25	208/240	Screw	25	29M9161	29.09
● 3100-20Q6999*	30	24	Screw w/Q.C.	25	29M9110	17.34
● 3100Y20Q6999*	30	24	Screw w/Q.C.	25	29M9163	33.84
● 3100-20Q6999C	30	24	Screw w/Q.C.	25	29M9111	31.31
● 3100-20T6999*	30	120	Screw w/Q.C.	25	29M9116	30.38
● 3100-20T6999C	30	120	Screw w/Q.C.	25	29M9117	30.69
● 3100-20T6999CL	30	120	Box Lug w/Q.C.	40	29M9118	32.50
● 3100-20U6999*	30	208/240	Screw w/Q.C.	25	29M9123	30.38
● 3100-20U6999C	30	208/240	Screw w/Q.C.	25	29M9124	31.31
● 3100-20U6999CL	30	208/240	Box Lug w/Q.C.	40	29M9125	32.50
● 3100-20V6999CL	30	277	Box Lug w/Q.C.	40	29M9126	33.16
● 3100-20Q18999C	40	24	Screw w/Q.C.	25	29M9106	34.60
● 3100-20Q18999CL	40	24	Box Lug w/Q.C.	40	29M9107	36.46
● 3100-20T18999C	40	120	Screw w/Q.C.	25	29M9112	34.60
● 3100-20T18999CL	40	120	Box Lug w/Q.C.	40	29M9113	36.46
● 3100-20U18999C	40	208/240	Screw w/Q.C.	25	29M9119	34.79
● 3100-20U18999CL	40	208/240	Box Lug w/Q.C.	40	29M9120	35.73
● 3100A20U18999CL**	40	208/240	Box Lug w/Q.C.	40	29M9160	36.64
● 3100-30J16999BM+	50	120	Screw w/Q.C.	50	29M9130	101.61

MODEL 98 - 3100 SERIES 3-POLE, 3PST-NO-DM

Mfg. Part No.	Contact Carry Current (A)	Coil Voltage (VAC)	Relay Terminals	Torque (in.-lbs.)	Stock No.	Price Each
● 3100-30U7999CY	20	208/240	Screw w/Q.C.	25	29M9154	48.93
● 3100-30Q8999CY	25	24	Screw w/Q.C.	25	29M9140	56.46
● 3100-30T8999CY	25	120	Screw w/Q.C.	25	29M9146	45.40
● 3100-30U8999CY	25	208/240	Screw w/Q.C.	25	29M9155	56.46
● 3100-30Q9999CG	30	24	Box Lug w/Q.C.	40	29M9141	62.29

▶ CONTINUED ▶

CONTACTORS/MOTOR STARTERS/AC DRIVES • CURRENT MONITORING RELAYS

PRODUCTS UNLIMITED 1-3 POLE DEFINITE PURPOSE CONTACTORS (CONT.)

Mfg. Part No.	Contact Carry Current (A)	Coil Voltage (VAC)	Relay Terminals	Torque (in.-lbs.)	Stock No.	Price Each	
						1-4	
3100-30Q9999CY	30	24	Screw w/Q.C.	25	29M9142	59.26	
● 3100-30T9999AX††	30	120	Box Lug	40	29M9147	62.29	
● 3100-30T9999CG	30	120	Box Lug w/Q.C.	40	29M9148	62.29	
● 3100-30T9999CY	30	120	Screw w/Q.C.	25	29M9149	59.26	
● 3100-30T9999LN†	30	120	Screw w/Q.C.	25	29M9150	53.20	
● 3100-30U9999CG	30	208/240	Box Lug w/Q.C.	40	29M9156	62.29	
● 3100-30U9999CY	30	208/240	Screw w/Q.C.	25	29M9157	52.91	
● 3100-30U9999LN†	30	208/240	Screw w/Q.C.	25	29M9158	53.20	
● 3100-30V9999CY	30	277	Screw w/Q.C.	25	29M9159	52.91	
● 3100-30H9999CY	30	480	Screw w/Q.C.	25	29M9127	52.91	
● 3100-30Q10999CG	40	24	Box Lug w/Q.C.	40	29M9136	71.13	
● 3100-30Q10999CJ+	40	24	Box Lug w/Q.C.	40	29M9137	71.44	
● 3100-30Q10999LN†	40	24	Screw w/Q.C.	25	29M9138	62.29	
● 3100-30Q10999XP††	40	24	Box Lug	40	29M9139	70.83	
● 3100-30T10999CG	40	120	Box Lug w/Q.C.	40	29M9143	62.22	
● 3100-30T10999CJ+	40	120	Box Lug w/Q.C.	40	29M9144	63.78	
● 3100-30U10999CG	40	208/240	Box Lug w/Q.C.	40	29M9151	63.51	
● 3100-30U10999CJ+	40	208/240	Box Lug w/Q.C.	40	29M9152	63.78	
● 3100-30U10999LN†	40	208/240	Screw w/Q.C.	25	29M9153	69.77	

MODEL 93 - 3100 SERIES, 3-POLE, 3PST-NO-DM

Mfg. Part No.	Contact Carry Current (A)	Coil Voltage (VAC)	Relay Terminals	Torque (in.-lbs.)	Stock No.	Price Each	
						1-4	
● 3100Y30J16999CJ+	50	120	Box Lug w/Q.C.	50	29M9165	110.27	
● 3100Y30K16999CJ+	50	208/240	Box Lug w/Q.C.	50	29M9167	110.27	
● 3100-30J16999CJ+	50	120	Box Lug w/Q.C.	50	29M9131	85.97	
● 3100-30K16999CJ+	50	208/240	Box Lug w/Q.C.	50	29M9134	104.08	
3100Y30I17999CJ+	60	24	Box Lug w/Q.C.	50	29M9164	136.80	
● 3100Y30J17999CJ+	60	120	Box Lug w/Q.C.	50	29M9166	124.37	
● 3100Y30K17999CJ+	60	208/240	Box Lug w/Q.C.	50	29M9168	136.80	
● 3100-30I17999BV+ ††	60	24	Screw w/Q.C.	50	29M9128	121.30	
● 3100-30I17999CJ+	60	24	Box Lug w/Q.C.	50	29M9129	110.27	
● 3100-30J17999AT††	60	120	Screw w/Q.C.	50	29M9132	113.07	
● 3100-30U17999CJ+	60	120	Box Lug w/Q.C.	50	29M9133	119.40	
● 3100-30T17999CJ+	60	120	Box Lug w/Q.C.	50	29M9145	90.20	
● 3100-30K17999CJ+	60	208/240	Box Lug w/Q.C.	50	29M9135	95.62	

* Without arc cover; + Coil termination: 0.25" quick connect with #6-32 screw; † With SEM screws; ‡ Without quick connect; ** With quad disconnects; †† Coil terminals down; †‡ ¼ x 20 screws (90317)

P&B 25A-30A DEFINITE PURPOSE CONTACTORS



- 3PST-NO-DM contacts
- AC or DC coil
- For controlling motors, power supplies, heating elements and lighting
- Switch 3-phase motor loads to 25A, 600VAC, and resistive loads to 30A, 600VAC
- Field replaceable, silver-cadmium oxide contact
- Life expectancy: 500,000 operations

Main contact terminals arranged for straight-through wiring. Coil terminals are combination #8-32 screw terminals and .250" quick connects. Dimensions: 3.75L x 2.50W x 3.47"H. Other options available: Auxiliary switch, dust cover, other voltages, dual .250" (6.35mm) quick-connect terminals, DPST-NO-DM and SPST-NC-DB contacts; go online or call Newark.

Mfg. Part No.	Coil Input Voltage	Coil Resist. (Ω) ±10%	With Mounting Plate	Stock No.	Price Each	
					1-14	15-24
● P25P42A22P1-120	120VAC	...	Y	10F7834	99.10	89.19
● P25P42A12P1-120	120VAC	...	N	17M1727	90.10	84.38
● P25P42A22P1-240	240VAC	...	Y	18M9304	83.59	79.23
● P25P42D22P1-12	12VDC	34	Y	17M1728	76.30	71.46
● P25P42D22P1-24*	24VDC	133	Y	18M9305	78.00	68.25
● P25C42D22C2-24	24VDC	133	Y	08H3387	111.97	104.86

* No auxiliary switch (2403)

P&B 30A-40A DC DEFINITE PURPOSE CONTACTORS



4-Pole

Just Added



3-Pole

P30 series switch motor loads to 30A, 600VAC, and resistive loads to 40A, 600VAC; P40 series switch to 40A, 600VAC and resistive loads to 50A, 600VAC. Main contact terminals arranged for straight thru wiring. 10-32 binding head screw for use with solid wire or wires terminated with ring or spade terminals. Universal mount plate. Mfg. part no. P40C42A12D1-120 has SPDT auxiliary snap switch with 10A, 120-250VAC, silver contacts and 0.187" quick connect terminals. Dimensions: 3.600L x 3.800W x 3.420"H (AC coil); 2.550L x 3.250W x 3.975"H (DC coil).

AC COIL

Mfg. Part No.	Contact Rating (A)	Coil Voltage	Main Contacts	Auxiliary Switch	Stock No.	Price Each
● P30P42A12P1-120	30	120	3PST-NO-DM	None	17M1729	133.61
● P30P47A12P1-120	30	120	4PST-NO-DM	None	17M1730	150.59
● P40P42A12P1-24	40	24	3PST-NO-DM	None	17M1732	141.07
● P40P42A12P1-120	40	120	3PST-NO-DM	None	17M1731	139.29
● P40P42A12P1-240	40	240	3PST-NO-DM	None	10F7858	139.24

DC COIL

● P30P42D12P1-12	30	12	3PST-NO-DM	None	21J9570	121.36
● P30P42D12P1-24	30	24	3PST-NO-DM	None	18M9306	100.34
● P30P47D12P1-24	30	24	4PST-NO-DM	None	93F1054	118.42
● P40P42D12P1-12	40	12	3PST-NO-DM	None	77B4415	129.80
● P40P48D12P1-24	40	24	DPST-NO-DM	None	97B9875	158.89
● P40P42D12P1-24	40	24	3PST-NO-DM	None	17M1733	105.55
● P40C42D12C1-24	40	24	3PST-NO-DM	SPDT	21J9571	145.31

(2402)

CURRENT CONTROL RELAYS



Features:

- Controls AC/DC currents, with or w/o memory
- When current reaches the set point the output changes state at the end of the selected time delay
- Once the current drops below the hysteresis (% of the threshold) the output changes instantly
- In memory mode the relay remains in the faulted condition until the unit is reset manually
- HDI & EI are over or under current monitors

Specifications:

- Display precision: ±10% of full scale
- Digital probe input circuit: Volt-free contact
- Min. pushbutton activation duration: 50ms
- Max. input current: 1mA
- Max. length of probe cables: 100m
- Outputs: 8A

EI SERIES

Mfg. Part No.	Supply Voltage	Mounting	Stock No.	Price Each
● 84871120	240VAC	DIN Rail	86K0428	267.40
84871033	120VAC	DIN Rail	73C4805	179.76

(31876)



7

Huge Expanded Selection of Semiconductors

(148843)

Go online to find new technologies and proven solutions from world-class and specialist suppliers.

CURRENT MONITORING RELAYS • PHASE MONITORING RELAYS

CURRENT CONTROL RELAYS



Just Added

Detect over or under current conditions. Model **HH** detects AC or DC current with adjustable threshold and hysteresis, and with or without latching function. The **MIC** series has a built-in current transformer and detects AC over or under current with adjustable threshold. Output: SPDT 5A. Supply voltage: 24 - 240VAC/DC.

CURRENT CONTROL RELAYS

Mfg. Part No.	Input Voltage (VDC)	Measurement Range	Stock No.	Price Each	
				1-5	6-14
84871020	24	0.002-0.5A	03H2776	179.76	
84871030	24	0.100-10.0A	81C2841	170.48	
● 84871130	240	0.100-10.0A	86K0430	289.51	
● 84871122	240	2.000-20.0A	86K0429	238.41	

ACCESSORIES

Mfg. Part No.	Type	Timing Range	Operating Pressure (psi)	Stock No.	Price Each	
					1-9	10-24
81507720	Adjustable Single impulse generator	0.1s to 30s	30-120	34B3523	138.64	

CURRENT SENSING RELAYS



- Sensing 1.5 to 15A AC
- AC powered
- SPDT contacts - 10A @ 120VAC
- User adjustable trip point
- Socket mounting for 3/16" terminals
- Side tapped hole for 1/4" terminals

3/16" terminals versions mate with **SK-SQR11-DS** sockets on page 1644
1/4" terminals versions intended for direct connection of 1/4" quick connect terminals without a socket

Mfg. Part No.	Terminals	Input Voltage	Current Range (A)	Stock No.	Price Each		
					1-4	5-9	10-24
235ACX-2	1/4"	120VAC	1.5-15	89K7390	185.86	178.18	168.96
235ACX-3	3/16"	120VAC	1.5-15	96K2647	185.86	178.18	168.96

MONITORING RELAYS



Just Added



- 1-phase AC/DC voltage and current monitoring relays
- 3-phase AC current monitoring relay (with MP Series CT)
- 8A SPDT output
- Adjustable set-point, time delay and hysteresis
- For DIN-rail or 11-pin socket mounting



Plug-In



DIN Rail

Common specifications: 11-pin plug-in mount, 3.2H x 1.4W x 3.4"D (P type); DIN rail mount, 3.2H x 0.9W x 3.9"D (D type). Adjustable set point/hysteresis, diagnostic LEDs, latching function. 115/230VAC supply, other voltages are available; go online or call. UL recognized, CSA certified, CE compliant.

1-PHASE AC/DC VOLTAGE AND 1- OR 3-PHASE AC CURRENT MONITORS

Multifunction AC/DC over voltage or AC over current relay with 8A SPDT output, adjustable set point and hysteresis, latch function, and 2 diagnostic LEDs.

Mfg. Part No.	Monitoring Range	Stock No.	Price Each	
			1-5	6-14
PJA01CB23500V	2-500VAC/DC, 0-5AAC (Direct Input) or	16C5112	122.76	115.50
● DJA01CB23500V	0.5-500AAC (with Mfg. part no. MI or MP CTs)	05M4100	122.76	115.50

1-PHASE TRUE RMS AC/DC VOLTAGE OR CURRENT MONITORS

AC/DC true RMS over or under voltage or current monitoring relays with 8A SPDT output, adjustable set point, hysteresis and 0.1-30-second time delay, selectable 1- or 6-second delay on "power-up," latch function, and 3 diagnostic LEDs.

Mfg. Part No.	Monitoring Range	Stock No.	Price Each	
			1-5	6-14
DUB01CB2310V	0.1 to 10VAC/DC	16C3217	181.91	171.15
PUB01CB23500V		16C5116	159.59	150.15
● DUB01CB23500V	Up to 500VAC/DC (in 5 Sub-Ranges)	05M4101	181.91	171.15
● DIB01CB235A	Up to 1A, 2A and 5A AC	05M4089	181.91	171.15

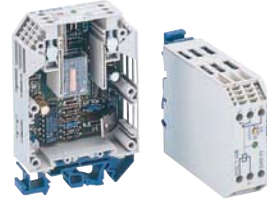
➔ CONTINUED ➔

MONITORING RELAYS (CONT.)

1-PHASE TRUE RMS AC/DC VOLTAGE OR CURRENT MONITORS

Mfg. Part No.	Monitoring Range	Stock No.	Price Each	
			1-5	6-14
● DIB02CB23150MV	Up to 60mV or 150mVAC/DC and 4VpAC	05M4090	181.91	171.15
PUB02CT23	Ideal for 4V Output CTs (Types MI and MP)	16C5121	159.59	150.15

CURRENT-SENSING ALARM RELAY MODULE



- 7 A, 380 VAC/125 VDC
- 1 changeover contact
- SPDT Relay
- 22.5 mm width

CSR module accepts power supply feed from 9.5VDC to 40VDC. Detects a current level between 4mA and 20mA DC. Dry contact closure or disconnect (SPDT). The control electronics and dry contact relay are built-in. Maximum ambient temperature: +60°C.

Mfg. Part No.	Description	Stock No.	Price Each	
			1-24	25-48
● 57.802.3053.0	CSR Module	02M0384	158.42	

3-PHASE MONITORING RELAYS



Just Added



Mini DIN Rail



DIN Rail



Plug-In

- One of the widest offerings available in the industry
- For 3-phase voltages up to 660VAC
- For detection of phase loss, reversal and/or asymmetry errors
- Some models feature adjustable set-point, time delay and hysteresis
- Diagnostic LED indication
- For DIN-rail or 11-pin socket mounting

3-PHASE MONITORING RELAYS

DPA/PPA series monitors phase sequence/loss and regenerated voltages (up to 70%); additionally the DPA53 series protects against under voltage conditions. DPB series features an adjustable delay of 0.1 to 30 sec. DPC series additionally protects against phase asymmetry errors, offers a selectable 1 or 6 second delay upon power-up and two separate outputs and time delays for over and under voltage. PPA series: 3.2H x 1.4W x 3.4"D. DPA01/DPB01 series: 3.2H x 0.9W x 3.9"D. DPA51 and DPA53 types: 3.2H x 0.7W x 2.6"D. DPC01 type: 3.2H x 1.8W x 3.9"D Powered by three phase mains voltage, 5A SPDT output and up to four diagnostic LEDs.

MINI DIN RAIL MOUNTING

Mfg. Part No.	Con-tacts	Mains Monitoring	Description	Stock No.	Price Each
● DPA53CM23	SPDT	160-240V	3-ph. monitor for under voltage, phase loss and sequence	05M4096	188.61
● DPA51CM44	SPDT	208-480V	3-ph. monitor for phase loss, sequence and regenerated voltages	67C0900	167.40
● DPA53CM48	SPDT	320-480V	3-ph. monitor for under voltage, phase loss and sequence	05M4097	188.61

DIN RAIL MOUNTING

● DPA01CM44	SPDT	208-480V	3-ph. monitor for phase loss, sequence and regenerated voltages	05M4095	138.39
● DPA01CM60	SPDT	380-600V	3-ph. monitor for phase loss, sequence and regenerated voltages	89C4381	199.77
● DPB01CM48	SPDT	380-480V	3-ph. monitor for over or over voltage conditions, phase loss and sequence	06M3827	246.64
● DPC01DM48	SPDT	380-480V	3-ph. monitor for asymmetry errors, under or over voltage conditions, phase loss and sequence	16C3184	334.80
DPC01DM69	SPDT	600-690V	3-ph. monitor for asymmetry errors, under or over voltage conditions, phase loss and sequence	89C4384	358.20
DPA01DM23	DPDT	208-240V	3-ph. monitor for under or over voltage conditions, phase loss and sequence	16C3175	186.27
DPA01DM48	DPDT	320-480V	3-ph. monitor for under or over voltage conditions, phase loss and sequence	16C3176	186.27

PLUG-IN MOUNTING

● PPA01CM44	SPDT	208-480V	3-ph. monitor for phase loss, sequence and regenerated voltages	05M4257	116.07
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PHASE MONITORING RELAYS • VOLTAGE MONITORING RELAYS

PHASE MONITOR RELAYS



MACROMATIC



PMPU AND PMDU SERIES

- Universal voltage range of 208 to 480VAC
- Protects against phase loss, phase reversal, phase unbalance, undervoltage and overvoltage
- User-adjustable settings for time delay on undervoltage dropout, percent unbalance, time delay on restart and undervoltage setting for the ultimate in three-phase protection
- Automatic or manual reset
- Multi-color LED indicates normal condition and defines fault to simplify troubleshooting
- 45mm DIN-style surface-mount case (PMDU)

PMDU SERIES

Output: SPDT and SPNC 10A resistive at 240VAC/30VDC, 1/2HP at 240VAC (NO only). Adjustable time-delay drop-out (0.1 to 20 seconds) on undervoltage prevents nuisance tripping. Temperature: -28°C to 65°C. Mechanical life: 10 mil. operations. Full load: 10 mil. operations. Dimensions: 4.5" H x 2.7" D x 1.8" W. UL recognized, CE approved.

Mfg. Part No.	Mounting	Termination	Contacts	Stock No.	Price Each	
					1-14	15-24
● PMDU	PCB Surface Mount	8-Pin Octal	SPDT/SPST-NC	29M7937	120.45	114.95

PMPU SERIES

Output: SPDT 10A resistive at 240VAC/30VDC, 1/2HP at 240VAC. Adjustable time-delay drop-out (0.1 to 20 seconds) on undervoltage prevents nuisance tripping. Temperature: -28°C to 65°C. Mechanical life: 10 mil. operations. Full load: 100,000 operations. Dimensions: 3.0" H x 1.7" D x 2.4" W. UL recognized, CE approved and UL listed when used with socket (Mfg. part no. 70169-D) rated 600V. Order socket separately on page 1963

● PMPU	Plug In	8-Pin Octal	SPDT	29M9956	91.55	87.37
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PCP2/PAP SERIES

- Universal voltage range of 208 to 480VAC (PCP2 only)
- PCP2 protects against phase reversal only
- PAP series protects against phase loss and phase reversal and has adjustable under voltage protection of 75 - 95% of normal.
- LED indicates both normal and fault conditions

Output: 10A resistive at 240VAC/30VDC. Temperature: -28°C to 65°C. Dimensions: 3.0" H x 1.7" D x 2.4" W (PCP2); 3.5" H x 1.7" D x 2.4" W (PAP). UL recognized an UL listed when used with appropriate socket. Requires 600V rated socket (Type 70169-D) when used on system voltages greater than 300V. Order socket separately on page 1963

Mfg. Part No.	Voltage (VAC)	Contacts	Stock No.	Price Each		
				1-14	15-24	25-49
● PCP2	208 - 480	SPDT	29M7936	52.04	49.66	47.76
● PAP240	240	SPDT	30C3079	48.96	46.91	45.37
● PAP480	480	SPDT	27C0651	52.74	50.53	48.87

(4085)

C-LYNX PHASE CONTROL RELAYS



Just Added



➔ CONTINUED ➔

C-LYNX PHASE CONTROL RELAYS (CONT.)



Protect equipment from problems with 3-phase power. Models available to protect against phase loss, phase reversal, under and over voltage. All models are multi-voltage at 50 / 60 Hz. LED indication for power and output status. 5A output.

MWS/MWS2 SERIES - PHASE LOSS AND SEQUENCE

Mfg. Part No.	Supply Voltage (VAC)	Contacts	Stock No.	Price Each	
				1-5	5-15
● 84873020	208-480	SPDT	86K0439	113.17	
● 84873021	208-480	DPDT	86K0440	121.35	

MWG - PHASE LOSS/SEQUENCE, DETECTS REGENERATED VOLTAGE TO 70%

● 84873022	208-480	SPDT	86K0441	131.78	
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MWU - PHASE LOSS/SEQUENCE, DETECTS REGENERATED VOLTAGE TO 70% AND UNDER VOLTAGE

● 84873023	208-480	SPDT	86K0442	137.52	
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MWA - PHASE LOSS/SEQUENCE/ASYMMETRY, DETECTS REGENERATED VOLTAGE TO 70%

● 84873024	208-480	SPDT	86K0443	137.52	
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MWUA - PHASE LOSS/SEQUENCE/ASYMMETRY, DETECTS UNDER/OVER VOLTAGE (WINDOW)

● 84873025	208-480	SPDT	86K0444	140.39	
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HWUA - PHASE LOSS/SEQUENCE/ASYMMETRY, DETECTS UNDER/OVER VOLTAGE

● 84873026	220-480	DPDT	86K0445	179.05	
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H3US/M3US - PHASE LOSS, DETECTS UNDER/OVER VOLTAGE

● 84873220	220-480	DPDT	86K0446	186.21	
● 84873222	208-480	SPDT	86K0448	133.55	

H3USN - PHASE AND NEUTRAL LOSS, DETECTS UNDER/OVER VOLTAGE

● 84873221	120-277	DPDT	86K0447	172.83	
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HSV - SPEED CONTROL

● 84874320	24-240	SPDT-C/O	87K6163	193.38	
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(31879)

VOLTAGE CONTROL RELAYS



7



Detect over or under voltage conditions. Models MUS and MUSF monitor the supply voltage to the unit. All models have threshold and hysteresis adjustment. LED indicators for input power and relay status. 5A outputs.

MUS SERIES - UNDER OR OVER VOLTAGE

Mfg. Part No.	Output	Supply Voltage	Monitored Voltage (V)	Stock No.	Price Each	
					1-5	5-15
● 84872140	SPDT	15	9-15	86K0433	108.16	
● 84872141	SPDT	80	20-80	86K0434	127.92	
● 84872142	SPDT	250	65-250	86K0435	110.83	

MUSF SERIES - UNDER OR OVER VOLTAGE WINDOW

● 84872151	SPDT	48	24-48	86K0436	119.09	
● 84872152	SPDT	260	65-260	86K0437	118.49	

HUL/HUH SERIES - UNDER OR OVER VOLTAGE

● 84872120	DPDT	24-240 VAC/DC	0.2-60	86K0431	170.13	
● 84872130	DPDT	24-240 VAC/DC	15-600	86K0432	168.85	

(79349)

VOLTAGE MONITORING RELAYS

VOLTAGE MONITOR RELAYS



MACROMATIC



Over/under voltage relays and voltage band relays monitor either AC single-phase (50-60Hz) or DC voltages to protect equipment against voltage fault conditions. Output: DPDT 10A Resistive @240VAC/30VDC. Response time: 500ms for pick-up and adjustable 0.5 - 10 sec for drop-out. Voltage tolerance: +25%/-50% of nominal voltage. Temperature: +25° to 65°C. Dimensions: 2.4 x 1.7 x 3.5 inches. UL recognized for US and Canada. UL listed with relay socket mfg. part no. 70169-D; Order separately below.

RELAYS

Over/under voltage relays are designed to operate when the operating voltage reaches a pre-set value and drop-out when the operating voltage drops to a level below pre-set value.

Mfg. Part No.	Control Voltage	Pick-Up Voltage	Drop-Out Voltage	Stock No.	Price Each		
					1-14	15-24	25-49
● VAKP024A	24VAC	21-27VAC	20-26VAC	43K4406	70.92	67.45	64.37
● VAKP120A	120VAC	102-138VAC	97-133VAC	43K4410	69.41	66.01	63.00
● VAKP012D	12VDC	10-14VDC	8-13VDC	43K4405	70.92	67.45	64.37
● VAKP024D	24VDC	21-27VDC	16-26VDC	43K4407	69.41	66.01	63.00

Voltage band relays are designed to provide protection to equipment that is required to operate within an upper and lower limit. As long as the operating voltage remains within an over and under voltage range, the internal relay stays energized. If the operating voltage falls outside this range, the relay will drop-out.

Mfg. Part No.	Control Voltage	Pick-Up Voltage	Drop-Out Voltage	Stock No.	Price Each		
					1-14	15-24	25-49
● VWKP024A	24VAC	24-30VAC	18-24VAC	43K4426	68.84	65.47	62.48
● VWKP120A	120VAC	120-150VAC	90-120VAC	43K4430	70.92	67.45	64.37
● VWKP012D	12VDC	12-15VDC	9-12VDC	43K4425	70.92	67.45	64.37
● VWKP024D	24VDC	24-30VDC	18-24VDC	43K4427	70.92	67.45	64.37

Over/under voltage relays are designed to operate when the operating voltage reaches a pre-set value and drop-out when the operating voltage drops to a level below a pre-set value. Output: SPDT 10A Resistive @ 240VAC/30VDC. Response time: Adjustable 0.1 - 10 seconds pick-up and drop-out. Voltage tolerance: +25%/-50% of nominal voltage. Temperature: -25°C to 65°C. Dimensions: 2.4 x 1.7 x 3.1".

Mfg. Part No.	Control Voltage	Pick-Up Voltage	Drop-Out Voltage	Stock No.	1-14	15-24	25-49
● VAKPU	240VAC	204-276VAC	198-267VAC	33M7490	82.16	78.14	74.57

(84570)

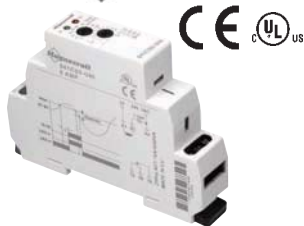
VOLTAGE AND CURRENT SENSING RELAYS



Magnecraft
Your Contact for Industrial Relays



831 Voltage Sensing Relay



841 Current Sensing Relay

831 Relay:

- Monitors and reacts to over/under voltage conditions
- 15A, SPDT
- Timing range: 0.1-10sec
- Input and output LED indication
- Mounts to DIN rail
- Dim.(HxWxL): 2.6" x 0.7" x 3.5"
- UL listed file no. E234203 and CE compliant

841 Relay:

- Monitors and reacts to over/under current conditions
- 15A, SPDT
- Timing range: 0.1-10sec
- Input and output LED indication
- Mounts to DIN rail
- Dim.(HxWxL): 2.6" x 0.7" x 3.5"
- UL listed file no. E234203 and CE compliant

831 CURRENT SENSING RELAYS

Mfg. Part No.	Coil Voltage	Sensing Range	Stock No.	Price Each			
				1-9	10-24	25-49	50-99
● 831VS-120A	120VAC	80-150VAC	10M6581	108.34	92.71	81.70	72.82
● 831VS-240A	240VAC	160-276VAC	27K6783	92.87	87.08	83.18	79.60

841 CURRENT SENSING RELAYS

Mfg. Part No.	Coil Voltage	Sensing Range	Stock No.	Price Each			
				1-9	10-24	25-49	50-99
● 841CS1-UNI	240VAC	0.1-1A	30M2658	158.10	151.08	143.55	127.99
● 841CS2-UNI	240VAC	0.2-2A	30M2659	158.10	151.08	143.55	127.99
● 841CS5-UNI	240VAC	0.3-3A	30M2660	158.10	151.08	143.55	127.99
● 841CS8-UNI	240VAC	0.4-4A	30M2661	158.10	151.08	143.55	127.99

(79167)

VOLTAGE SENSING RELAYS



STRUTHERS-DUNN
LEADER IN RELAYS & CONTACTORS SINCE 1923



- AC or DC operation
- Adjustable pick up 75 to 115% of nominal
- Adjustable drop - out 75 to 95% of pick up
- Detect over voltage or under voltage
- Recessed screw adjustment on SPDT 13A
- Knob adjustment of DPDT 10A

SPDT mates with SK-SQR11-DS socket . DPDT mates with SK-SQR8-DS socket.

SPDT SQUARE BASE

Mfg. Part No.	Input Voltage	Adjust. Style	Stock No.	Price Each		
				1-9	10-24	25-49
236ACX-1	120VAC	Screw	88K2830	280.72	253.44	224.40
236ACX-2	240VAC	Screw	88K2831	233.41	210.72	186.58
236ACX-4	480VAC	Screw	88K2832	290.93	262.66	232.56

DPDT OCTAL BASE

Mfg. Part No.	Input Voltage	Adjust. Style	Stock No.	Price Each		
				1-9	10-24	25-49
236ACPX-1	24VDC	Knob	88K2833	321.56	290.31	257.04
236ACPX-3	240VAC	Knob	97C6052	226.84	204.80	181.33

(12542)

P&B 10A SOLID STATE VOLTAGE SENSORS



Tyco Electronics



- DPDT contacts
- 10A @ 28VDC resistive, 120VAC resistive
- Molded nylon dust cover
- Temperating rating: -10°C to +55°C

Sound alarms, turn off equipment, or trigger auxiliary power source with voltage sensors which energize and de-energize internal relay at predetermined voltages. Solid-state sensors available with voltage levels fixed or knob-adjustable. Can be used as over-voltage or under-voltage sensor. Dimensions: 2.406L x 1.781W x 2.937"H (61.11 x 42.24 x 76.60). UL registered. CSA certified. Order socket separately below.

ADJUSTABLE PICK-UP AND DROP-OUT

Mfg. Part No.	Pick-Up Volts	Drop-Out Volts	Max. Volts	Stock No.	Price Each		
					1-4	5-9	10-24
CSJ-38-70010	92-140	90-138	150VAC	24F2952	151.93	142.43	134.04
CSL-38-30010	20-30	18-28	32VDC	24F2953	181.07	169.75	159.77
CSL-38-40010	40-58	38-56	60VDC	77B151	186.60	172.52	...
CSL-38-60010	92-140	90-138	150VDC	67F1021	181.07	169.75	159.77

FIXED PICK-UP AND ADJUSTABLE DROP-OUT

Mfg. Part No.	Pick-Up Volts	Drop-Out Volts	Max. Volts	Stock No.	1-4	5-9	10-24
CSJ-38-71010	105	90-103	140VAC	24F2954	167.84	157.35	148.09
CSL-38-31010	22	16-21	32VDC	24F2955	191.01	184.85	174.28

8-PIN SOCKET FOR CSJ AND CSL SERIES

Mfg. Part No.	Mounting	Stock No.	Price Each		
			1-24	25-49	50-99
● 27E122	Screw Terminal	57F3431	4.68	4.29	3.95
● 27E891	Screw Terminal, DIN Mount	46F3587	5.52	5.03	4.61

(2401)

New products added weekly



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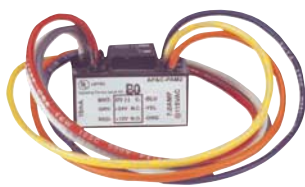
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MULTI VOLTAGE CONTROL RELAYS • SOLENOIDS

MULTI-VOLTAGE CONTROL RELAYS



SSU-PAM-1



SSU-PAM-2



SSU-PAM-4



SSU-PAM-SD

Features

- 100% sealed with 12", 18 AWG flying leads
- SPDT dry form "C" configuration
- Pre-drilled mounting screw hole and self-tapping screw provided
- Double-sided tape and wire nuts provided
- Temp. range: -50°C to +85°C

Applications

- HVAC
- Temperature control
- Fire alarm and security
- Energy management
- Lighting control systems
- Building automation systems

Mfg. Part No.	Coil Voltage	Current (A)	Coil Energized LED Indicator	Stock No.	Price Each		
					1-4	5-9	10-24
SSU-PAM-1	24VAC/24VDC/120VAC	10	Yes	08N1907	13.41	12.67	11.99
SSU-PAM-2	12VDC/24VDC	7	Yes	08N1908	13.02	12.30	11.64
SSU-PAM-3	12VDC/24VDC	3	No	08N1909	13.02	12.30	11.64
SSU-PAM-4	9 to 40VDC	10	No	08N1910	13.02	12.30	11.64
SSU-PAM-SD	18 to 32VDC	7	No	08N1906	13.02	12.30	11.64

(115451)

MULTI-VOLTAGE CONTROL RELAYS



Features

- DPDT dry form "C" configuration per position
- Red LED illuminates when coil is energized
- Metal cover with red finish
- #14 to #22 AWG terminals
- Temp. range: -50°C to +85°C

Applications

- HVAC
- Temperature control
- Fire alarm and security
- Energy management
- Lighting control systems



Mfg. Part No.	Module Positions	Coil Voltage	Current (A)	Stock No.	Price Each	
					1-4	5-9
SSU-MR-201/C/R	4	24VDC/24VAC/120VAC/230VAC	10	08N1905	27.78	26.24

(115452)

PUSH-AND-PULL-TYPE CYLINDRICAL SOLENOIDS



Pull Style



Push Style

- Available in DC Voltage Only
- Mounting Brackets, Nuts and Washers Included
- Sizes Listed in Type Numbers

- Duty: C = Continuous; I = Intermittent
- UL Recognized

PULL-TYPE, STANDARD LIFE

Mfg. Part No.	Coil Resis. (Ω)	L Length (in)	D Diameter (in)	Min Load Force Oz @ in	Max Load Force Oz @ in	Stock No.	Price Each
							1-14
T3.5X9-C-12D	60.2	1.18	0.44	.5 @ 0.25	3 @ 0.05	03M5753	16.33
T4X16-C-24D	173	2.01	0.50	1 @ 0.25	5 @ 0.05	03M5754	106.99
T4X16-I-12D	17.7	2.01	0.50	1 @ 0.25	5 @ 0.05	67F5612	27.26
T4X7-I-24D	131	0.89	0.50	1 @ 0.50	6 @ 0.05	24F2972	14.25
T6X12-C-12D	31.7	1.54	0.75	2 @ .375	17 @ 0.05	20M0274	16.91
T6X12-I-12D	12.1	1.54	0.75	6 @ .375	24 @ 0.05	20M0275	16.91
T6X12-C-24D	121	1.54	0.75	2 @ .375	17 @ 0.05	51M9076	16.91

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PUSH-AND-PULL-TYPE CYLINDRICAL SOLENOIDS (CONT.)

Mfg. Part No.	Coil Resis. (Ω)	L Length (in)	D Diameter (in)	Min Load Force Oz @ in	Max Load Force Oz @ in	Stock No.	Price Each
							1-14
T6X12-I-24D	60.6	1.54	0.75	6 @ .375	24 @ 0.05	03M5757	18.89
T8X9-C-24D	135	1.17	1.00	.5 @ 0.50	20 @ 0.05	03M5760	28.02
T8X9-I-24D	44	1.17	1.00	2 @ 0.50	42 @ 0.05	24F2976	24.59
T8X16-I-12D	9.3	2.04	1.00	8 @ 0.75	60 @ 0.05	20M0276	21.25
T8X16-C-12D	28.3	2.04	1.00	2 @ 0.75	30 @ 0.05	03M5758	21.25
T8X16-C-24D	110	2.04	1.00	2 @ 0.75	30 @ 0.05	24F2986	21.25
T8X16-I-24D	36.1	2.04	1.00	8 @ 0.75	60 @ 0.05	03M5759	25.81
T12X13-C-24D	90.4	1.68	1.50	1 @ 0.75	80 @ 0.05	24F2987	30.21
T12X13-I-24D	28.4	1.68	1.50	7 @ 0.75	140 @ 0.05	24F2978	30.21
T12X19-C-24D	68	2.43	1.50	8 @ 100	100 @ 0.05	03M5751	31.73
T12X19-I-24D	22.1	2.43	1.50	20 @ 100	145 @ 0.05	03M5752	31.73

PULL-TYPE, LONG LIFE

LT4X12-C-24D	19.2	1.50	0.50	.5 @ .375	9 @ 0.05	03M5714	44.08
LT4X16-I-24D	69.1	2.01	0.50	1.5 @ .375	14 @ 0.05	03M5715	38.31
LT6X12-C-12D	35	1.54	0.75	.5 @ 0.50	28 @ 0.05	03M5716	28.66
LT8X16-C-24D	77.2	2.04	1.00	1 @ 0.75	45 @ 0.05	24F5717	38.51
LT8X16-I-24D	29.7	2.04	1.00	10 @ 0.50	62 @ 0.06	19M9542	38.51
LT12X19-C-24D	71.8	2.38	1.50	3 @ 1.00	110 @ 0.05	03M5712	50.47

PUSH-TYPE, STANDARD LIFE

TP series push-type solenoids also available in 3.5 x 9, 4 x 7, 4 x 12 and 4 x 15 sizes.

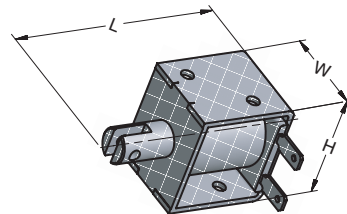
Mfg. Part No.	Coil Resis. (Ω)	Length (in)	Diameter (in)	Min Load Force Oz @ in	Max Load Force Oz @ in	Stock No.	Price Each
							1-4
TP4X16-C-24D	173	2.04	0.50	.8 @ 0.25	4 @ 0.05	03M5747	33.98
TP6X12-C-24D	121	1.54	0.75	2 @ .375	13 @ 0.05	24F3441	18.28
TP6X12-I-24D	60.6	1.54	0.75	5 @ .375	19 @ 0.05	24F3437	18.28
TP8X9-I-24D	44	1.17	1.00	4 @ .500	42 @ 0.05	20M0273	24.48
TP8X9-C-24D	135	1.17	1.00	2 @ .500	20 @ 0.05	67F5617	24.48
TP8X16-C-12D	28.3	2.04	1.00	1 @ 0.75	24 @ 0.05	20M0272	24.30
TP8X16-C-24D	110	2.04	1.00	1 @ 0.75	24 @ 0.05	03M5749	24.30
TP8X16-I-24D	36.1	2.04	1.00	6 @ 0.75	48 @ 0.05	03M5750	24.30
TP12X13-I-24D	28.4	1.68	1.50	7 @ 0.75	140 @ 0.05	20M0270	38.31
TP12X13-C-24D	90.4	1.68	1.50	5 @ 0.75	80 @ 0.05	67F5621	38.31
TP12X19-C-24D	68	2.43	1.50	10 @ 1.00	100 @ 0.05	20M0271	40.77
TP12X19-I-24D	22.1	2.43	1.50	16 @ 1.00	116 @ 0.05	03M5746	40.77

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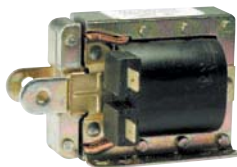
AC AND DC BOX FRAME SOLENOIDS



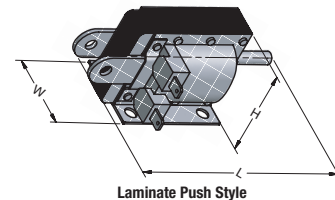
Laminate Pull Style



Frame Pull Style



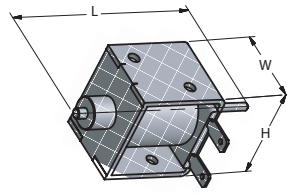
Laminate Push Style



Frame Push Style



Frame Push Style



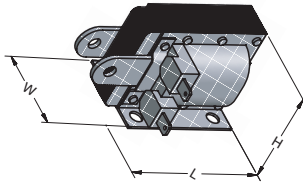
Frame Push Style

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SOLENOIDS

AC AND DC BOX FRAME SOLENOIDS (CONT.)

These intermittent and continuous-duty solenoids are available in AC and DC versions, and in three constructions: box frame, U-frame and laminated. **Mfg. part nos. 2, 2HD, 4, 4HD, 11, 11HD, 11P, 22 and 28** are box frame. **Mfg. part nos. 12, 14, 16, 16P, 17, 18 and 18P** are laminated. **Mfg. part no. 24** is U-frame. **P** in mfg. part no. indicates a push-type model; **HD** indicates a heavy-duty model. **I** in mfg. part no. indicates intermittent duty; **C** indicates continuous duty. Last digits of mfg. part no. indicate voltage. All box frame models have quick-connect terminals.



AC LAMINATE SOLENOIDS PULL STYLE

Mfg. Part No.	Coil Resist. (Ω)	L (in)	H (in)	W (in)	Min Load Force Oz @ in	Max Load Force Oz @ in	Stock No.	Price Each
12-C-120A	150	1.63	1.4	1.25	5 @ 1.00	30 @ .125	03M5778	72.87
14-C-120A	18	2.46	2.08	1.91	96 @ 1.00	115 @ .125	03M5779	84.57
14-I-120A	11	2.46	2.08	1.91	120 @ 1.00	130 @ .125	03M5780	84.57
16C120AC	85	1.63	1.44	1.22	8 @ 1.00	68 @ .125	03M5781	72.29
16-C-240A	350	1.63	1.44	1.22	8 @ 1.00	68 @ .125	24F893	76.48
16-I-120A	41	1.63	1.44	1.22	8 @ 1.00	112 @ .125	24F90	74.38
18-C-120A	19.7	2.50	2.09	1.81	60 @ 1.00	155 @ .125	80H9249	89.04
18-I-120A	8	2.50	2.09	1.81	60 @ 1.00	155 @ .125	24WX092	101.30
18-C-240A	78	2.50	2.09	1.81	60 @ 1.00	155 @ .125	24F895	89.04

AC LAMINATE SOLENOIDS PUSH STYLE

16P-C-120A	85	1.63	1.43	1.22	8 @ 1.00	68 @ .125	24F3457	94.23
16P-I-120A	41	1.63	1.44	1.22	8 @ 1.00	112 @ .125	03M5782	102.42
18P-C-120A	19.7	2.50	2.09	1.81	60 @ 1.00	155 @ .125	03M5784	115.19
18P-I-120A	8.8	2.50	2.09	1.81	144 @ 1.00	336 @ .125	03M5785	115.19

AC FRAME SOLENOIDS PULL STYLE

2-I-120A	60	1.70	1.68	1.57	15 @ 0.75	54 @ .125	24F078	30.68
2HD-I-120A	42	1.70	1.68	1.57	20 @ 0.75	64 @ .125	20M0295	37.37
2HD-C-120A	113	1.70	1.68	1.57	9 @ 0.75	26 @ .125	62F1898	38.43
4-C-120A	133	1.98	1.62	1.57	12 @ 1.00	10 @ .125	03M5792	53.57
4-I-120A	37	1.98	1.62	1.57	46 @ 1.00	38 @ .125	24F872	38.62
4HD-I-120A	19.3	2.17	1.62	1.57	66 @ 1.00	70 @ .125	03M5794	49.34
11-C-120A	200	1.84	1.19	1.19	4 @ 1.00	13 @ .125	03M5772	21.99
11-I-120A	85	1.84	1.19	1.19	8 @ 1.00	24 @ .125	24F081	27.53
11HD-C-120A	165	2.00	1.25	0.94	3 @ 1.00	12 @ .125	03M5775	33.03
24-C-120A	500	1.23	1.16	0.91	1 @ 0.75	8 @ .125	24F755	24.02
28-C-120A	400	1.13	1.19	0.94	4 @ 0.50	11 @ .125	24F179	20.04
28-C-24A	17.4	1.13	1.19	0.94	4 @ 0.50	11 @ .125	03M5788	21.82

AC FRAME SOLENOIDS PUSH STYLE

11P-C-120A	200	1.84	1.19	1.19	4 @ 1.00	13 @ .125	24F3454	33.34
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DC FRAME SOLENOIDS PULL STYLE

2HD-C-24D	71	1.70	1.68	1.57	1 @ 1.00	100 @ 0.05	03M5786	29.28
2HD-I-24D	22.6	1.70	1.68	1.57	10 @ 1.00	125 @ 0.05	20M0296	32.88
4-C-24D	61.3	1.98	1.62	1.57	1 @ 1.00	100 @ 0.05	03M5793	31.83
4-I-24D	15.8	1.98	1.62	1.57	20 @ 1.00	140 @ 0.05	24F885	54.33
4HD-C-12D	14.8	2.17	1.62	1.57	5 @ 1.00	125 @ 0.05	66F6319	29.93
4HD-I-24D	18.9	2.17	1.62	1.57	20 @ 1.00	165 @ 0.05	20M0333	26.88
4HD-C-24D	57.5	2.17	1.62	1.57	5 @ 1.00	125 @ 0.05	20M0331	32.10
4L-C-12D	25.5	1.62	1.98	1.44	1 @ 1.00	108 @ 0.05	95F7085	61.35
11-I-12D	7.5	1.84	1.19	0.94	5 @ 1.00	62 @ 0.05	20M0287	18.81
11-C-24D	93.1	1.84	1.19	0.94	1 @ 0.75	35 @ 0.05	03M5773	20.37
11-C-6D	4.69	1.84	1.19	0.94	1 @ 0.75	35 @ 0.05	03M5774	19.71
11HD-C-24D	76.3	2.00	1.25	0.94	1 @ 1.00	70 @ 0.05	03M5776	24.28
11HD-I-24D	29.3	2.00	1.25	0.94	5 @ 1.00	100 @ 0.05	03M5777	25.53
11-I-6D	1.9	1.84	1.19	0.94	5 @ 1.00	58 @ 0.05	24F889	18.81
22-C-24D	182	1.13	0.75	0.75	1 @ .375	11 @ 0.05	24F759	14.06
22-C-6D	11.5	1.13	0.75	0.75	1 @ .375	11 @ 0.05	24F757	12.96
22-I-24D	93.2	1.13	0.75	0.75	1 @ 0.50	20 @ 0.05	03M5787	14.06
28-C-12D	29.8	1.13	1.19	0.94	1 @ 0.50	25 @ 0.05	24F221	14.95
28-C-24D	116	1.13	1.19	0.94	1 @ 0.50	25 @ 0.05	03M5789	29.88
28-I-12D	11.9	1.13	1.19	0.94	2 @ 0.50	40 @ 0.05	03M5790	14.95

DC FRAME SOLENOIDS PUSH STYLE

11P-C-24D	93.1	1.84	1.19	0.94	1 @ 1.00	35 @ 0.05	24F3456	25.80
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MAGNETIC LATCHING SOLENOIDS



RoHS Compliant Available



Combine permanent magnets with conventional solenoid design to provide pull and hold action in response to momentary current pulses. Ideally suited for battery-operated devices where continuous-duty service is required but power consumption must be minimized. Dielectric strength 1500Vrms at 60Hz. Last digits in type number indicate voltage (VDC). UL recognized.

Mfg. Part No.	Coil Resist. (Ω)	Amp Turns	Oz.@Inch of Stroke	Holding Force	Stock No.	Price Each		
						1-4	5-9	10-24
4L-C-12D	25.5	888	35@0.250	10lbs.	95F7085	61.35	58.86	54.72

LEDEX PULL TUBULAR SOLENOIDS

Just Added



STA PULL 0.5" Dia. X 1.5" SIZE 102 1" Dia. X 1.125" SIZE 155 1.5" Dia. X 1.5"

- 6, 12 & 24 VDC continuous duty coils
- Simple DC On/Off operation
- 10" leadwires
- Coils rated for 130° C
- Coil resistance: +/-5% tolerance

STA PULL SIZE 0.5" DIA. X 2"

Mfg. Part No.	Coil Resist. (Ohms)	Voltage (VDC)	Max. Stroke (in)	Nominal Stroke (in)	Force @ Nominal Stroke (lbs)	Stock No.	Price Each
151092-229	6.3	6	0.7	0.3	0.9	58P0307	22.61
151092-232	30.45	12	0.7	0.3	0.9	58P0308	22.61
151092-235	118	24	0.7	0.3	0.9	58P0309	22.61

SIZE 102 1" DIA. X 1.125"

152099-227	5.33	6	0.5	0.1	2.4	58P0312	48.78
152099-230	22.81	12	0.5	0.1	2.4	58P0313	48.78
152099-233	93.19	24	0.5	0.1	2.4	58P0314	48.78

SIZE 155 1.5" DIA. X 1.5"

152097-226	17.53	12	0.8	0.4	1.1	58P0310	50.56
152097-230	110.74	24	0.8	0.4	1.1	58P0311	50.56

(142253)

LEDEX BOX FRAME SOLENOIDS



- Moderate force output
- Continuous or intermittent duty
- Push and pull configurations
- On/Off operations



Mfg. Part No.	LxWxH (inches)	Coil Resist. Ω	Voltage (VDC)	Duty Cycle	Force @ Nominal Stroke (oz @ in)	Stock No.	Price Each
B11-253-M-36	1.86x0.94x1.18	65.76	24	C	3.2 @ 0.40	20M0930	20.96
B11-254-M-36	1.86x0.94x1.18	17.26	12	C	3.2 @ 0.40	20M0931	20.96
B16-253-B-1	0.99x0.39x0.48	394.5	24	C	1.6 @ 0.05	20M0945	12.20
B16-254-B-1	0.99x0.39x0.48	100.79	12	C	1.6 @ 0.05	20M0946	12.20
B17-254-A-1	0.79x0.51x0.59	88.95	12	C	3.2 @ 0.05	20M0954	13.48
B22-253-M-36	1.61x1.31x1.47	58.18	24	C	9.6 @ 0.40	20M0970	17.12
B22-254-M-36	1.61x1.31x1.47	14.55	12	C	9.6 @ 0.40	20M0971	17.12
B4HD-253-M-36	2.18x1.45x1.63	46.83	24	C	12.8 @ 0.50	20M0985	32.59
B4HD-254-M-36	2.18x1.45x1.63	11.42	12	C	12.8 @ 0.50	20M0986	32.59

(90047)

LEDEX TUBULAR SOLENOIDS



- Ideally suited for medium stroke linear motion applications
- Continuous or intermittent duty
- On/off operation
- Pull or push types available
- Operation life: 25million cycles for STA models



Mfg. Part No.	L x Dia. (in)	Coil Resist. Ω	Voltage (VDC)	Duty Cycle	Force @ Nominal Stroke (oz @ in)	Stock No.	Price Each
195200-237	0.55 x 0.52	45.7	12	C	2.9 @ 0.05	20M1802	17.16
195201-237	0.55 x 0.52	45.7	12	C	1.3 @ 0.05	20M1804	19.66

CONTINUED

SOLENOIDS

LEDEX TUBULAR SOLENOIDS (CONT.)

Mfg. Part No.	L x Dia. (in)	Coil Resist. Ω	Voltage (VDC)	Duty Cycle	Force @ Nominal Stroke (oz @ in)	Stock No.	Price Each	
							1-24	
● 195202-231	1.05 x 0.052	9.56	12	I	9.0 @ 0.10	20M1805	18.23	
● 195202-234	1.05 x 0.052	37.41	12	C	3.0 @ 0.10	20M1806	18.23	
● 195202-237	1.05 x 0.052	149.93	24	C	3.0 @ 0.10	20M1807	18.23	
● 195203-234	1.05 x 0.052	37.41	12	C	2.1 @ 0.10	20M1809	20.63	
● 195203-237	1.05 x 0.052	149.93	24	C	2.1 @ 0.10	20M1810	20.63	
● 195204-230	1.56 x 0.77	20.7	12	C	8.0 @ 0.20	20M1812	19.83	
● 195204-233	1.56 x 0.77	83.5	24	C	8.0 @ 0.20	20M1814	19.83	
● 195205-230	1.56 x 0.77	20.7	12	C	6.1 @ 0.20	20M1816	22.86	
● 195205-233	1.56 x 0.77	83.5	24	C	6.1 @ 0.20	20M1818	22.86	
● 195206-224	2.05 x 1.02	2.69	12	I	48 @ 0.30	20M1819	25.26	
● 195206-228	2.05 x 1.02	19.2	12	C	14 @ 0.30	20M1820	25.26	
● 195206-231	2.05 x 1.02	77.4	24	C	14 @ 0.30	20M1821	21.79	
● 195207-228	2.05 x 1.02	19.2	12	C	12 @ 0.30	20M1823	27.75	
● 195207-231	2.05 x 1.02	77.4	24	C	12 @ 0.30	20M1824	27.75	
● 174419-024	2.25 x 1.25	6.04	6	C	16 @ 0.40	20M1770	36.12	
● 174419-026	2.25 x 1.25	14.1	12	C	16 @ 0.40	20M1771	36.12	
● 174419-029	2.25 x 1.25	55.1	24	C	16 @ 0.40	20M1772	36.12	
● 174432-024	2.50 x 1.50	9.3	12	C	16 @ 0.40	20M1773	41.55	

(90050)

LEDEX ROTARY SOLENOIDS

Features:

- Snap acting engagement
- Clockwise or counterclockwise operation
- Very compact design
- Very high torque to size ration
- 9 standard sizes and 7 standard configurations per size
- Standard and long life models



SIZE 2E

Mfg. Part No.	L x Dia. (in)	Coil Resist. Ω	Voltage (VDC)	Duty Cycle	Force oz @ Nominal Stroke	Stock No.	Price Each	
							1-24	
● H-1344-032	0.656 x 1.125	28.15	12	C	0.5 @ 45° CW	20M1257	100.56	
● H-2390-032	0.656 x 1.125	28.15	12	C	1.9 @ 25° CW	20M1284	100.56	

SIZE 3B

● 810-280-330	0.875 x 1.312	18.4	12	C	3.1 @ 25° CW	20M3065	59.62	
● 810-282-330	0.875 x 1.312	18.4	12	C	0.4 @ 45° CW	20M3066	78.31	

SIZE 3E

● H-2412-030	0.797 x 1.312	31.84	12	C	2.6 @ 25° CW	20M1285	96.11	
● H-2711-033	0.797 x 1.312	75.3	24	C	0.4 @ 45° CW	20M1289	100.56	

SIZE 4E

● H-15000-028	0.953 x 1.562	13.8	12	C	10 @ 25° CW	20M1259	100.56	
● H-15021-028	0.953 x 1.562	13.8	12	C	.25 @ 67.5° CW	20M1260	96.11	
● H-2413-031	0.953 x 1.562	56.7	24	C	10 @ 25° CW	20M1286	96.11	

SIZE 5S

● H-15165-029	1.047 x 1.875	30.48	24	C	26 @ 25° CW	20M1268	111.24	
● H-2414-029	1.047 x 1.875	30.48	24	C	26 @ 25° CW	20M1287	109.46	

(90051)

LEDEX MAGNETICALLY LATCHING SOLENOIDS



Features:

- Ideally suited for low duty cycle applications where the solenoid energized position is needed for an extended period of time
- Perfect candidate for battery operation: Reduces power consumption
- 5 frame sizes

Specifications:

- Pull-type operation
- Dielectric strength: 500Vrms for one second



Mfg. Part No.	LxWxH (inches)	Coil Resist. Ω	Voltage (VDC)	Duty Cycle	Force @ Nominal Stroke (oz @ in)	Stock No.	Price Each	
							1-24	
● B14-L-255-B-4	1.45x0.79x1.02	6.9	12	I	32 @ 0.10	20M0939	26.84	
● B14-L-258-B-4	1.45x0.79x1.02	1.93	6	I	32 @ 0.10	20M0940	26.84	
● B16-L-155-B-3	0.99x0.39x0.48	22.71	12	I	3.0 @ 0.05	20M0942	15.74	
● B16-L-158-B-3	0.99x0.39x0.48	6.35	6	I	3.0 @ 0.05	20M0944	15.74	
● B17-L-155-B-3	0.79x0.51x0.59	21.93	12	I	2.0 @ 0.08	20M0951	17.32	
● B17-L-158-B-3	0.79x0.51x0.59	5.4	6	I	2.0 @ 0.08	20M0953	17.32	
● B22-L-254-M-36	1.61x1.31x1.47	14.55	24	I	56 @ 0.10	20M0964	22.34	
● B22-L-255-M-36	1.61x1.31x1.47	3.64	12	I	56 @ 0.10	20M0965	22.34	

▶ CONTINUED ▶

LEDEX MAGNETICALLY LATCHING SOLENOIDS (CONT.)

Mfg. Part No.	LxWxH (inches)	Coil Resist. Ω	Voltage (VDC)	Duty Cycle	Force @ Nominal Stroke (oz @ in)	Stock No.	Price Each	
							1-24	
● C5-L-270-B-1	0.94x0.41x0.46	48.65	24	I	6.4 @ 0.05	20M1024	12.89	
● C5-L-272-B-1	0.94x0.41x0.46	11.52	12	I	6.4 @ 0.05	20M1026	12.89	
● C5-L-273-B-1	0.94x0.41x0.46	2.88	6	I	6.4 @ 0.05	20M1027	12.89	

(90053)

LEDEX LOW PROFILE CONICAL AND FLAT FACE SOLENOIDS



Features:

- Ideally suited for high force short stroke applications
- Force up to 80lbs
- On/off operation
- Push/pull operation
- Life: 1-5million operations

CONICAL PLUNGER

Mfg. Part No.	H x Dia. (in)	Coil Resist. Ω	Voltage (VDC)	Duty Cycle	Force @ Nominal Stroke (oz @ in)	Stock No.	Price Each	
							1-24	
● 123421-033	0.53 x 1.00	30.6	12	C	4.0 @ 0.08	20M1682	46.12	
● 123421-036	0.53 x 1.00	112	24	C	4.0 @ 0.08	20M1684	46.12	
● 123422-032	0.58 x 1.125	28.15	12	C	4.0 @ 0.10	20M1686	37.33	
● 123423-030	0.69 x 1.312	19.2	12	C	13 @ 0.12	20M1688	46.12	
● 129409-028	0.835 x 1.562	13.8	12	C	16 @ 0.15	20M1695	55.42	
● 129409-031	0.835 x 1.562	56.7	24	C	16 @ 0.15	20M1697	55.42	
● 129415-025	1.035 x 1.875	6.66	12	C	40 @ 0.20	20M1699	61.56	
● 129415-026	1.035 x 1.875	10.3	24	I	160 @ 0.20	20M1700	61.56	
● 129415-029	1.035 x 1.875	38	24	C	40 @ 0.20	20M1701	61.56	
● 173921-023	1.33 x 2.25	4.69	12	C	96 @ 0.20	20M1767	80.37	

FLAT FACE PLUNGER

● 124911-032	0.58 x 1.125	28.15	12	C	32 @ 0.30	20M1692	43.54	
● 129440-031	0.835 x 1.562	56.7	24	C	48 @ 0.06	20M1702	47.21	
● 129450-026	0.88 x 1.875	7.72	12	C	48 @ 0.15	20M1704	53.44	

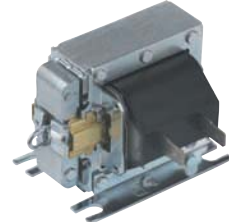
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DORMEYER LAMINATE SOLENOIDS



Features:

- Ideally suited for high force medium life AC applications
- T-shaped plunger design hold exceptionally heavy loads
- Continuous duty cycle at 20° ambient temperature
- Stroke up to 1 1/4in
- Application include residential and commercial door locks, PC board insertion equipment, cameras, and coin dispensers



Mfg. Part No.	LxWxH (inches)	Coil Resist. Ω	Voltage (VAC)	Duty Cycle	Force @ Nominal Stroke (oz @ in)	Stock No.	Price Each	
							1-24	
● 1000-M-1	1.61x1.19x1.44	88	120	I	32 @ .375"	20M1652	56.82	
● 1250-A-1	1.61x1.44x1.43	64	120	C	40 @ .375"	20M1694	53.88	
● 1750-A-1	1.61x1.44x1.43	40.5	120	I	64 @ .375"	20M1777	56.82	
● 2005-F-34	2.50x1.81x2.06	20.5	120	C	101 @ 0.50"	20M1877	67.60	
● 2255-F-34	2.50x1.81x2.06	18.3	120	I	125 @ 0.50"	20M1880	67.60	
● 2536-F-34	2.50x2.06x2.06	14.8	120	C	150 @ 0.50"	20M1903	67.60	
● 3000-M-1	2.97x2.38x2.94	6.5	120	C	190 @ 0.50"	20M1908	82.30	
● 3500-M-1	2.97x2.38x2.94	4.8	120	I	320 @ 0.50"	20M1920	82.30	

(90049)

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