



## DZ158 Moulded Case Circuit Breaker

### 1. General

#### 1.1 Function

protection of circuits against short-circuit currents, protection of circuits against overload currents, switch, isolation.

#### 1.2 Selection

Technical data of the network at the point considered: the earthing systems (TNS, TNC), short-circuit current at the circuit-breaker installation point, which must always be less than the breaking capacity of this device, Network normal voltage.

#### 1.3 Approvals and certificates

Detailed information, please refer to Certificates Table on the last page.



RCC

SAA

2. Ordering information  
Icu=6kA

★ DZ158, 1P



In (A)	Icn (kA)	CTN	Order Code	
			Standard	RoHS
63	6	108	134001	970001
80	6	108	134002	970002
100	6	108	134003	970003
125	6	108	134025	979476

Icu=6kA

★ DZ158, 2P



In (A)	Icn (kA)	CTN	Order Code	
			Standard	RoHS
63	6	54	134004	970004
80	6	54	134005	970005
100	6	54	134006	970006
125	6	54	134026	979477

Icu=6kA

★ DZ158, 3P



In (A)	Icn (kA)	CTN	Order Code	
			Standard	RoHS
63	6	36	134007	970007
80	6	36	134008	970008
100	6	36	134009	970009
125	6	36	134027	979478

Icu=6kA

★ DZ158, 4P



In (A)	Icn (kA)	CTN	Order Code	
			Standard	RoHS
63	6	27	134010	970010
80	6	27	134011	970011
100	6	27	134012	970012
125	6	27	134028	979479

Icu=10kA

★ DZ158, 1P



In (A)	Icn (kA)	CTN	Order Code	
			Standard	RoHS
63	10	108	134013	978979
80	10	108	134014	978980
100	10	108	134015	978981
125	10	108	-	985594

Icu=10kA

★ DZ158, 2P



In (A)	Icn (kA)	CTN	Order Code	
			Standard	RoHS
63	10	54	134016	978982
80	10	54	134017	978983
100	10	54	134018	978984
125	10	54	-	985595

Icu=10kA

★ DZ158, 3P



In (A)	Icn (kA)	CTN	Order Code	
			Standard	RoHS
63	10	36	134019	978985
80	10	36	134020	978986
100	10	36	134021	978987
125	10	36	-	985596

Icu=10kA

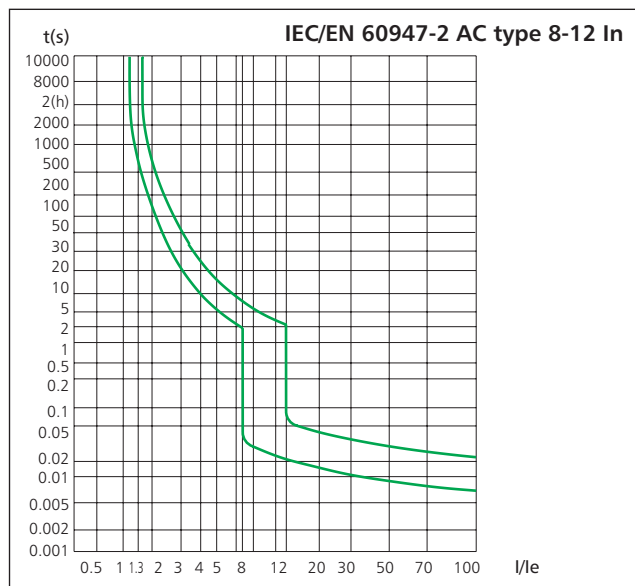
★ DZ158, 4P



In (A)	Icn (kA)	CTN	Order Code	
			Standard	RoHS
63	10	27	134022	978988
80	10	27	134023	978989
100	10	27	134024	978990
125	10	27	-	985597

3. Technical data

3.1 Curves



3.2

	Standard		IEC/EN 60947-2
Electrical features	Rated current $I_n$	A	63, 80, 100, 125
	Poles		1P, 2P, 3P, 4P
	Rated voltage $U_e$	V	230/400~240/415
	Insulation voltage $U_i$	V	500
	Rated frequency	Hz	50
	Rated breaking capacity	kA	6/10
	Rated impulse withstand voltage(1.2/50) $U_{imp}$	V	4000
	Dielectric test voltage at ind. Freq. for 1 min	kV	2.0
	Pollution degree		3
	Thermo-magnetic release characteristic		8-12In
Mechanical features	Electrical life		1,500 ( $I_n=63A, 80A, 100A$ ) 1,000 ( $I_n=125A$ )
	Mechanical life		8,500 ( $I_n=63A, 80A, 100A$ ) 7,000 ( $I_n=125A$ )
	Contact position indicator		Yes
	Protection degree		IP20
	Reference temperature for setting of thermal element	°C	30
	Ambient temperature (with daily average $\leq 35^\circ\text{C}$ )	°C	-5...+40(Special application please refer to P28 for temperature compensation correction)
Storage temperature	°C	-25...+70	
Installation	Terminal connection type		Cable/Pin-type busbar
	Terminal size top/bottom for cable	mm <sup>2</sup>	16~50
		AWG	6-1/0
	Terminal size top/bottom for busbar	mm <sup>2</sup>	16~35
		AWG	6-2
	Tightening torque	N*m	3.5
		In-lbs.	31
Mounting		On DIN rail EN 60715 (35mm) by means of fast clip device	
Connection		From top	
Combination with accessories	Auxiliary contact		Yes

3.3 Temperature derating

The maximum permissible current in a circuit breaker depends on the ambient temperature where the circuit breaker is placed. Ambient temperature is the temperature inside the enclosure or switchboard in which the circuit breakers are installed.

**The reference temperature is 30°C**

Rated current In (A)	Temperature compensation coefficient under various operational temperature							
	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C
63	1.275	1.215	1.15	1.075	1.00	0.915	0.825	0.735
80	1.27	1.205	1.135	1.07	1.00	0.925	0.845	0.755
100	1.275	1.21	1.135	1.075	1.00	0.925	0.845	0.755
125	1.25	1.19	1.125	1.08	1.00	0.93	0.86	0.78

4. Overall and mounting dimensions (mm)

