

CE	S	005	PC	RCC
EU	Sweden	Ukraine	Russia	South Africa

DZ158 Miniature Circuit Breaker

1. General

- 1.1 Application:
For protecting equipment against overload and short circuit.
- 1.2 General rules for choosing MCB.
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 Detailed certificates information, please refer to Certificates Table on P153.



2. Ordering Information



Icn=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

★ 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

★ 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

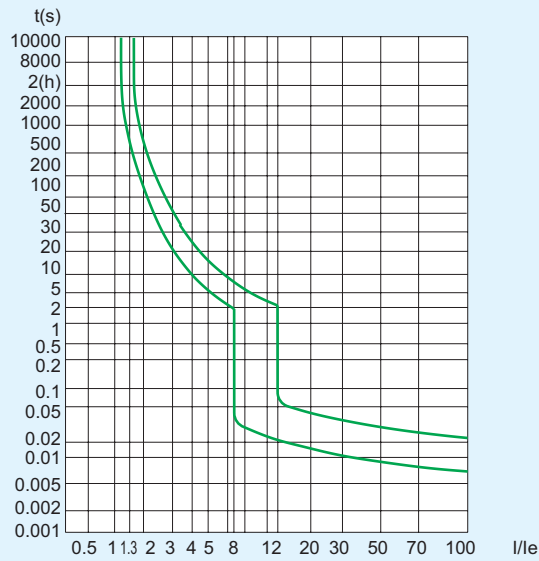
★ DZ158, 4P



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
	Insulation voltage U_i	V	500
	Rated frequency	Hz	50/60
	Rated breaking capacity	kA	10
	Rated impulse withstand voltage(1.2/50) U_{imp}	V	6000
	Dielectric test voltage at ind. Freq. for 1 min	kV	2.5
	Pollution degree		3
	Thermo-magnetic release characteristic		8-12 I_n
Mechanical features	Electrical life		1,500 ($I_n=63A, 80A, 100A$) 1,000 ($I_n=125A$)
	Mechanical life		8,000 ($I_n=63A, 80A, 100A$) 7,000 ($I_n=125A$)
	Contact position indicator		Yes
	Protection degree		IP20

	Standard		IEC/EN 60947-2	
Mechanical features	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 P27 for temperature compensation correction)	
	Storage temperature	°C	-25...+70	
	Terminal connection type		Cable/Pin-type busbar	
	Terminal size top/bottom for cable	mm ²		50
		AWG		18-1/0
	Terminal size top/bottom for busbar	mm ²		50
		AWG		18-1/0
	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

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	55°C	60°C	
63	1.28	1.21	1.14	1.07	1.00	0.994	0.87	0.85	0.82	
80	1.22	1.16	1.11	1.05	1.00	0.95	0.91	0.88	0.86	
100	1.22	1.16	1.11	1.05	1.00	0.95	0.91	0.88	0.86	
125	1.22	1.16	1.11	1.05	1.00	0.95	0.91	0.88	0.86	

4. Overall and Mounting Dimensions (mm)

Overall and Mounting Dimensions

