






CE	S	005	PC	RCC
EU	Sweden	Ukrain	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),

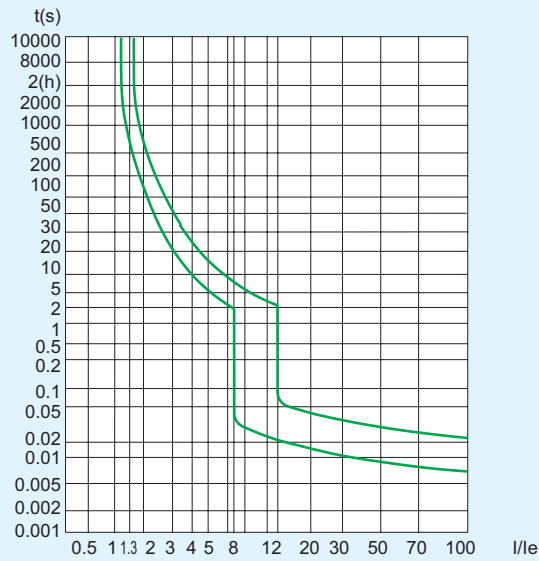
Short-circuit current at the circuit-breaker installation point, which must always be less than the breaking capacity of this device, Network normal voltage.

### 1.3 Detailed certificates information, please refer to Certificates Table on P153.



### 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 <sup>2</sup>		50
		AWG		18-1/0
	Terminal size top/bottom for busbar	mm <sup>2</sup>		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

