

CHNT

Empower the World



Modular Din Rail Products

Perfect Reliable choice



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.

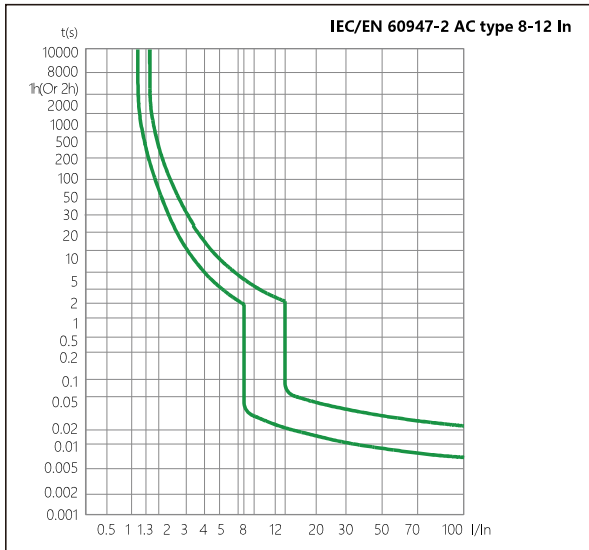
1.3 Approvals and certificates

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



2. Technical data

2.1 Curves



2.2

	Standard		IEC/EN 60947-2
Electrical features	Rated current In	A	63, 80, 100, 125
	Poles		1P, 2P, 3P, 4P
	Rated voltage Ue	V	230/400~240/415
	Insulation voltage Ui	V	500
	Rated frequency	Hz	50/60
	Rated breaking capacity	kA	6/10
	Rated impulse withstand voltage(1.2/50) Uimp	kV	4
	Dielectric test voltage at ind. Freq. for 1 min	kV	1.89
	Pollution degree		3
Thermo-magnetic release characteristic			8-12In
Mechanical features	Electrical life		1,500 (In=63A, 80A, 100A) 1,000 (In=125A)
	Mechanical life		8,500 (In=63A, 80A, 100A) 7,000 (In=125A)
	Contact position indicator		Yes
	Protection degree		IP20
	Reference temperature for setting of thermal element	°C	30
	Ambient temperature (with daily average ≤ 35°C)	°C	-5...+40
Storage temperature	°C	-25...+70	
Installation	Terminal connection type		Cable
	Terminal size top/bottom for cable	mm²	16~50
		AWG	6-0
	Tightening torque		3.5
			31
Mounting	N-m	On DIN rail EN 60715 (35mm) by means of fast clip device	
Connection	In-lbs.	From top and bottom	
Combination with accessories	Auxiliary contact		Yes

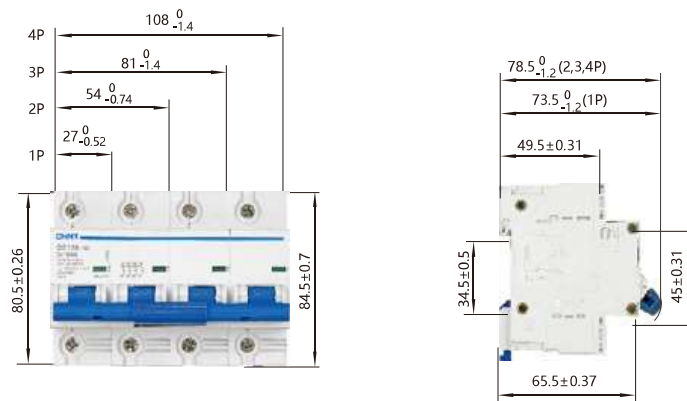
2.3 Temperature derating

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

In/Rated current (A)	Current correction value under different ambient temperature										
	-25°C	-20°C	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C
63	1.375	1.345	1.275	1.215	1.15	1.075	1.00	0.915	0.825	0.735	0.69
80	1.37	1.34	1.27	1.205	1.135	1.07	1.00	0.925	0.845	0.755	0.71
100	1.38	1.35	1.275	1.21	1.135	1.075	1.00	0.925	0.845	0.755	0.72
125	1.35	1.32	1.25	1.19	1.125	1.08	1.00	0.93	0.86	0.78	0.74

3. Overall and mounting dimensions (mm)





AX-1 (Auxiliary Contact for DZ158, DZ158LE)

1. General

- 1.1 Indication of the position of the device's contacts.
- 1.2 To be mounted on the left side of the MCBs/RCBOs thanks to the special pin.



2. Technical data

Standard		IEC/EN 60947-5-1	
Electrical features	Rated voltage Us	V	Un (V) AC415 50/60Hz DC125
			In (A) 3 1
	Configurations		1N/O+1N/C
	Rated impulse withstand voltage (1.2/50)Uimp	V	4,000
	Dielectric TEST voltage at ind. Freq. for 1min	kV	2
	Insulation voltage Ui	V	500
Pollution degree		2	
Mechanical features	Electrical life		6,050
	Mechanical life		10,000
	Protection degree		IP20
	Ambient temperature (with daily average ≤ 35°C)	°C	-5...+40
	Storage temperature	°C	-25...+70
Installation	Terminal connection type		Cable
	Terminal size top/bottom for cable	mm ²	2.5
		AWG	18-14
	Tightening torque	N·m	0.8
In-lbs.		7	

3. Ordering information



Model	Order Code
AX-1	985483



3. Overall and mounting dimensions (mm)

