

DZ47-63 Miniature Circuit Breaker



1. General

1. Application: For protecting cables and equipments against overload and short circuit.

2. General rules for choosing MCB.

a. Technical data of the network at the point considered:

The earthing systems, short-circuit current at the circuit breaker installation point, which must always be less than the breaking capacity of this device, network normal voltage.

b. There are 3 curve characteristics for magnetic operation:

B curve (3-5 I_n) protection and control of the circuits against length cables in TN and IT systems.

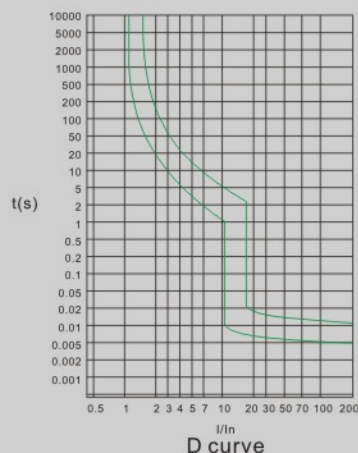
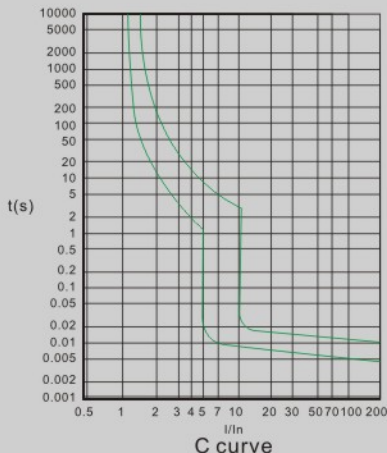
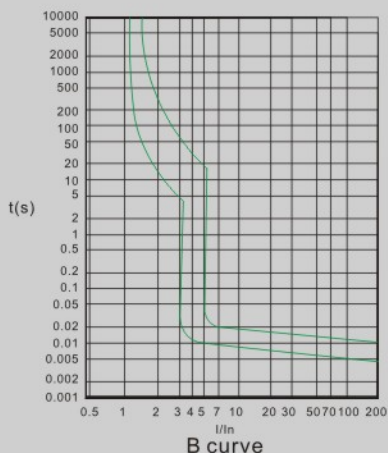
C curve (5-10 I_n) protection and control of the circuits against overloads and short-circuits; protection for resistive and inductive loads with low inrush current.

D curve (10-14 I_n) protection and control of the circuits against overloads and short-circuits; protection for circuits which supply loads with high inrush current at the circuit closing (LV/LV transformers, breakdown lamps).

2. Specifications

Curves

DZ47-63 is of high current limiting performance to limit the destruction energy due to short circuit to the greatest extent.



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Standard			IEC/EN 60898-1
Electrical features	Rated current In	A	1,2,6,10,16,20,25,32,40,50,63
	Poles	P	1,2,3,4
	Rated voltage Ue	V	230/400
	Insulation voltage Ui	V	500
	Rated frequency	Hz	50/60
	Rated breaking capacity	A	3000, 4500
	Rated impulse withstand voltage(1.2/50) Uimp	V	4000
	Dielectric test voltage at ind. Freq. for 1min	kV	2
	Pollution degree		2
	Thermo-magnetic release characteristic		B, C, D
Mechanical features	Electrical life	t	4000
	Mechanical life	t	10000
	Protection degree		IP20
	Reference temperature for setting of thermal element	℃	30
	Ambient temperature (with daily average ≤35℃)	℃	-5~+40(Special application please refer to temperature compensation correction)
	Storage temperature	℃	-25~+70
Installation	Terminal connection type		Cable / Pin-type busbar
	Terminal size top / bottom for cable	mm ²	25
		AWG	18-3
	Terminal size top / bottom for busbar	mm ²	25
		AWG	18-3
	Tightening torque	N*m	2
		ln-lbs.	18
	Mounting		On DIN rail EN 60715(35mm)by means of fast clip device
	Connection		From top and bottom

3. Temperature derating

Please refer to table below for temperature compensation correction

Rated current In(A)	Temperature compensation coefficient under various operational temperature								
	-10℃	0℃	10℃	20℃	30℃	40℃	50℃	55℃	60℃
1~6	1.20	1.14	1.09	1.05	1.00	0.96	0.80	0.75	0.70
10~32	1.18	1.12	1.08	1.04	1.00	0.96	0.92	0.88	0.84
40~60	1.16	1.12	1.07	1.03	1.00	0.97	0.87	0.83	0.80

4. Overall and mounting dimensions(mm)

