

Functions and Features

Technical parameters



DZ47SCB Special Protector for Surge Protective Device

Main features

- **High surge withstand capability:** 10/350us waveform up to 15kA, 8/20us up to 120kA;
- **High short-circuit breaking capacity:** 65kA, 100kA
- **Unique low short-circuit current protection:** While having high surge withstand capability, it can cut off the low short-circuit current of more than 3A in a very short time, which is far lower than the instantaneous value of conventional MCB (5-7 times I_n).
- **Lower residual voltage:** Compared with the conventional MCB, the residual voltage is lower when the surge current passes through, so that the effective voltage protection level at both ends of the SPD branch is lower.
- **Compact size:** SCB single mode with impulse current of 15kA is only 18mm.
- The shell is VO-grade flame retardant, which is safer to use.

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Electrical characteristic

Standard	NB/T 42150 Low voltage special protector for surge protective device					
Rated working voltage U_o	AC 230V/400V					
Number of poles	1P, 2P, 3P, 4P					
Cooperate with SPD experiment category	Class I (T1)	Class II (T2)				
Model	DZ47SCB-15	DZ47SCB-20	DZ47SCB-40	DZ47SCB-65	DZ47SCB-80	DZ47SCB-120
Waveform (us)	10/350us	8/20us				
Maximum impulse current, I_{imp}	15kA	/	/	/	/	/
Maximum discharge current I_{max}	/	20kA	40kA	65kA	80kA	120kA
Rated short-circuit capacity I_{cn}	65kA, 100kA	65kA, 100kA	65kA, 100kA	65kA, 100kA	65kA, 100kA	65kA, 100kA
Minimum delay action current I_d	3A	3A	3A	3A	3A	3A

Other parameters

Wiring capability	2.5~25mm ²
Limit Torque	2.5 N.m
Operating status indication	Handle indication ON-closing, OFF opening
IP protection grade	IP20
Operating ambient temperature	-25°C~+ 60°C
Storage ambient temperature	-40°C~+ 75°C, RH ≤75%
Recommended value of grounding wire	Up and down

Note: only applicable to voltage limiting surge protector

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Model Selection and Reference number

Special protector for surge protective Device

Product series	Experimental category	Impulse current limp Maximum discharge current I _{max}	Breaking capacity	Number of poles
DZ47SCB	1	40	100	4P
	↓	↓	↓	↓
	1: Class I (10/350us) 2: Class II (8/20 us)	Impulse current limp (10/350us) 15: 15kA Maximum discharge current I _{max} (8/20us) 20: 20kA 40: 40kA 65: 65kA 80: 80kA 120: 120kA	100: 100kA 65: 65kA	1: 1P 2: 2P 3: 3P 4: 4P

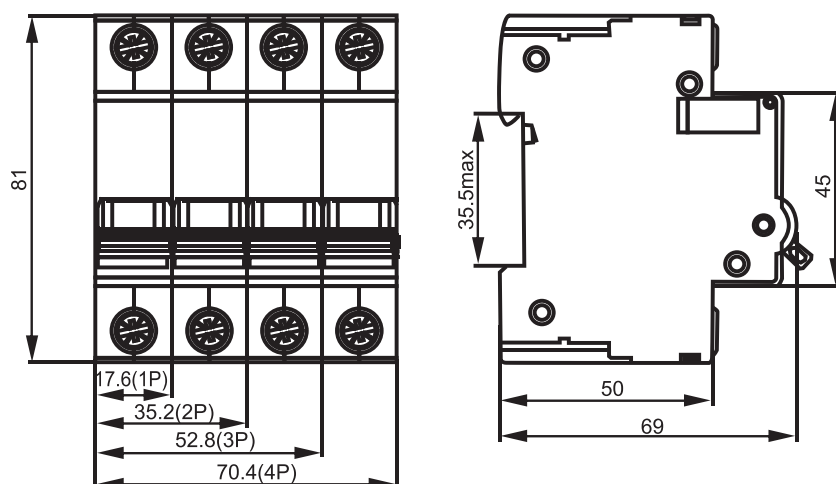
Reference number rule: for example, DZ47SCB test category I, impulse current 15kA, breaking capacity 100 kA, pole number 4P, corresponding reference number is DZ47SCB1151004

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Outline Dimension Drawing (mm)

DZ47SCB-15/20/40/65/80



DZ47SCB-120

