

Functions and features

Technical parameters



DZ47SCB Special Protection Device For Surge Protector

Main feature

- High surge resistance: 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 resistance, it can also cut off low short-circuit current above 3A In a very short time, far lower than the instantaneous value of conventional MCB (5-7 times I_n).
- Lower residual voltage: Compared to conventional MCBS, the residual voltage is lower when the surge current passes through, resulting in a lower level of effective voltage protection at both ends of the SPD branch.
- Compact size: SCB single mode with 15kA impulse current is only 18mm.
- The shell is V0 flame retardant, safer to use

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Electrical characteristic

Meet the standard	NB/T 42150 "Special Protection Device for Low Voltage Surge Protector"					
Rated working voltage U_o	AC 230V/400V					
Number of poles	1P, 2P, 3P, 4P					
Compatible with SPD experiment category	Class I (T1)	Class II (T2)				
Model number	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 capacity	2.5~25mm ²
Ultimate torque	2.5 N.m
Working status indication	Handle indicates ON- switch, OFF switch
IP protection level	IP20
Operating ambient temperature	-25 °C ~ +60 °C
Storage ambient temperature	-40 ~ +75 , relative humidity ≤ 75%
Recommended ground cable value	Up and down

Note: Only applicable to voltage limited surge protectors

Functions and Features

Type selection and material number

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Special protection device for surge protector

Product series	Experimental class	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 (8/20us)	↓ Impulse current limp (10/350us) 15: 15kA Max 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

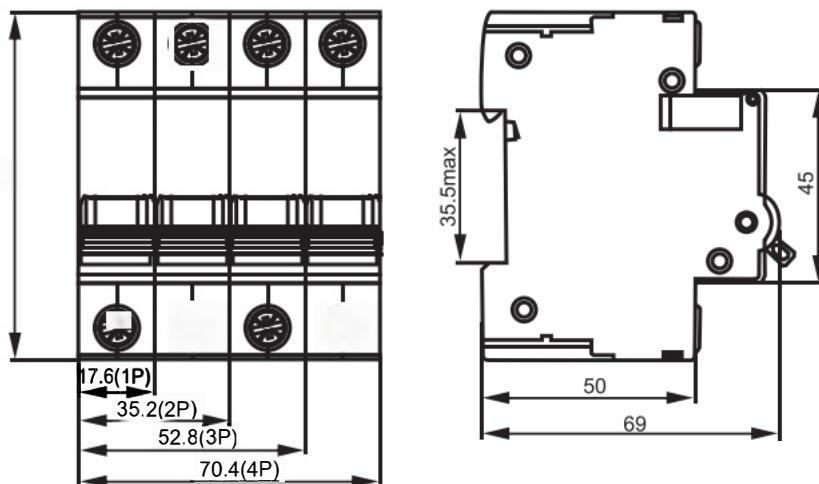
Material number rules: such as DZ47SCB experimental class I, impact current 15kA, breaking capacity 100kA, pole number 4P;
The corresponding material number is DZ47SCB1151004

Functions and Features

Outline dimensional drawing

Outline dimensional drawing(mm)

DZ47SCB-15/20/40/65/80



DZ47SCB-120

