

Product Overview

■ Main functions

To protect surges and other electrical devices

■ Applied standards

NB/T 42150

■ Certification

CQC



■ Main features

Rated operating voltage U_o	230V/440V	Impulse current limp	15kA
Number of poles	1P, 2P, 3P, 4P	Max. discharge current I_{max}	20-120kA
Test category	Class I (T1), Class II (T2)	Rated short circuit capacity I_{cn}	65kA, 100kA
Max. continuous operating voltage U_c	275/385/440V		

Product Features

- High surge withstand capacity: 10/350 μ s waveform: max. 15kA; 8/20 μ s: max.120kA;
- High short-circuit breaking capacity: 65kA, 100kA
- Unique low short circuit current protection: with high surge withstand capacity, the product can cut off the 3A and above low short-circuit current in a very short time, with this current much lower than the transient value of conventional MCB (5-7 times I_n).
- Lower residual voltage: Compared with conventional MCB, the residual voltage is lower when the surge current passes through, making that the effective voltage protection level at both ends of the SPD branch is lower.
- Compact size: SCB single mode is only 18mm for 15kA impulse current.
- The shell is V0-grade flame retardant for safer operation.

Product Selection

Product series	Test category	Impulse current limp Max. discharge current I_{max}	Breaking capacity	Number of poles
CDYNSCB	1	40	100	4P
	↓	↓	↓	↓
	1: Class I (10/350 μ s) 2: Class II (8/20 μ s)	Impulse current limp (10/350 μ s) 15: 15kA Max. discharge current I_{max} (8/20 μ s) 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: For example, for CDYNSCB with test category of Class I, impulse current 15kA, breaking capacity 100kA, and pole number 4P, the corresponding material number is CDYNSCB1151004.

Technical Parameters

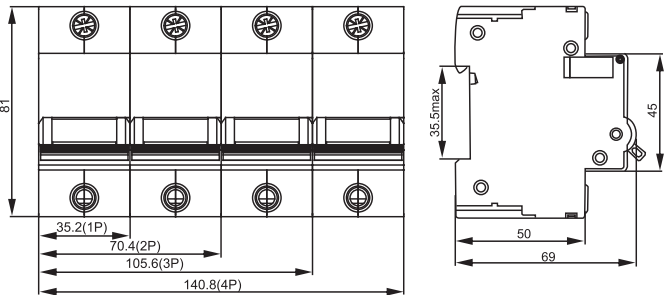
Main features						
Electrical characteristics						
Standard	NB/T 42150 Specific protective devices for low-voltage surge protective devices					
Rated operating voltage Uo	AC 230V/400V					
Number of poles	1P,2P,3P,4P					
Matched SPD test category	Class I (T1)	Class II (T2)				
Model	CDYNSCB-15; CDYNSCB-20	CDYNSCB-40	CDYNSCB-65	CDYNSCB-80	CDYNSCB-120	
Waveform (μs)	10/350us	8/20us				
Max. impulse current Iimp	15kA	/	/	/	/	/
Max. discharge current Imax	/	20kA	40kA	65kA	80kA	120kA
Rated short circuit capacity Icn	15kA;25kA	65kA,100kA	65kA,100kA	65kA,100kA	65kA,100kA	65kA,100kA
Min. delay operating current Id	3A	3A	3A	3A	3A	3A
Other parameters						
Wiring capacity	2.5 ~ 25mm ²					
Ultimate torque	2.5 N.m					
Work state indicator	Handle indicator ON-closed, OFF-open					
Protection grade	IP20					
Working temperature	-25℃ ~ +60℃					
Storage temperature	-40℃ ~ +75℃ , relative humidity ≤75%					
Wiring method	Top inlet and bottom outlet					

Note: Only suitable for voltage limiting type surge protective devices.

Outline and Installation Dimensions

■ Dimensional drawing

CDYNSCB-15/20/40/65/80



CDYNSCB-120

