

C3 Surge Protector

DZ47sY Power Supplies Surge Protector



Basic parameters

Main characteristics

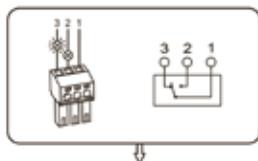
Standard	GB/T 18802.1, IEC 61643-11									
Rated working voltage U_0	230V (phase voltage)									
Number of poles	1P, 2P, 3P, 4P, 1P+N, 3P+N									1P+N
Experimental category	Class I (T1)			Class II (T2)					Class III (T3)	
Waveform (us)	10/350us			8/20us					8/20us	
Model	DZ47sY-I+II			DZ47sY-II					DZ47sY-III	
Impulse current I_{imp}	12.5kA	15kA	25kA	/	/	/	/	/	/	/
Maximum discharge current I_{max}	/	/	/	20kA	40kA	65kA	80kA	120kA	160kA	10kV (Open circuit voltage U_{oc})
Nominal discharge current I_n	25kA	25kA	50kA	10kA	20kA	30kA	40kA	60kA	80kA	5kA (Short-circuit current I_{sc})
Recommend SCB surge special backup protective device	15kA (impulse current)			/	$\geq 20kA$	$\geq 40kA$	$\geq 65kA$	$\geq 80kA$	$\geq 120kA$	/
Recommended Backup fuses (gL)	250A	250A	300A	50A	100A	125A	160A	200A	250A	Built in
Recommended backup circuit breakers	/	/	/	25A	40A	63A	/	/	/	/
Maximum continuous operating voltage U_c	275/385 /440V	275/385 /440V	385/440V	275/385 /440V	275/385 /440V	275/385 /440V	275/385 /440V	275/385 /440V	275/385 /440V	320V
Voltage protection level U_p	1.6/2.0/2.2kV	1.6/2.0/2.2kV	2.5kV	1.3/1.6/1.8kV	1.5/1.8/2.0kV	1.6/2.0/2.2kV	1.8/2.2/2.2kV	2.2/2.5/2.5kV	3.2/3.3/3.4kV	1.2kV

Other parameters

Operating status indication window	Colorless: normal; Red: failure requires immediate replacement		Green: normal; Red: failure requires immediate replacement		Colorless: normal; Red: failure requires immediate replacement	Green light on: normal green light off: failure requires immediate replacement
Remote signaling alarm terminal accessories	Optional; 11 common terminal, 12 normally open, 13 normally closed; working voltage ≤ 125V/ switching current ≤ 1A; Wiring capacity 0.5-1.5mm²					/
	In case of a fault, the 12 normally open contact is closed, and the 13 normally closed contact is opened to send an alarm signal.					/
Response time	≤25ns	≤100ns	≤25ns			
Wiring capability	Hard wire ≤ 35mm², flexible wire 2.5-25 mm²; Ultimate torque 3.5 N.m					≤ 16mm², limit torque 2N.m
Degree of protection	IP20					

Attachment

Remote signaling YX	
Rated working voltage U_e	125V
Rated working current I_e	1A
Contact	One normally open, one normally closed
Function	When the SPD module fails and disengages, the normally open contact will be closed and the normally closed contact will be opened to send fault information.



Wiring capacity: 1.5mm² (max)
U_{max}: AC125V I_{max}: 1A

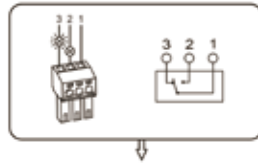
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Standards:
GB/T 18802.1 IEC61643-11

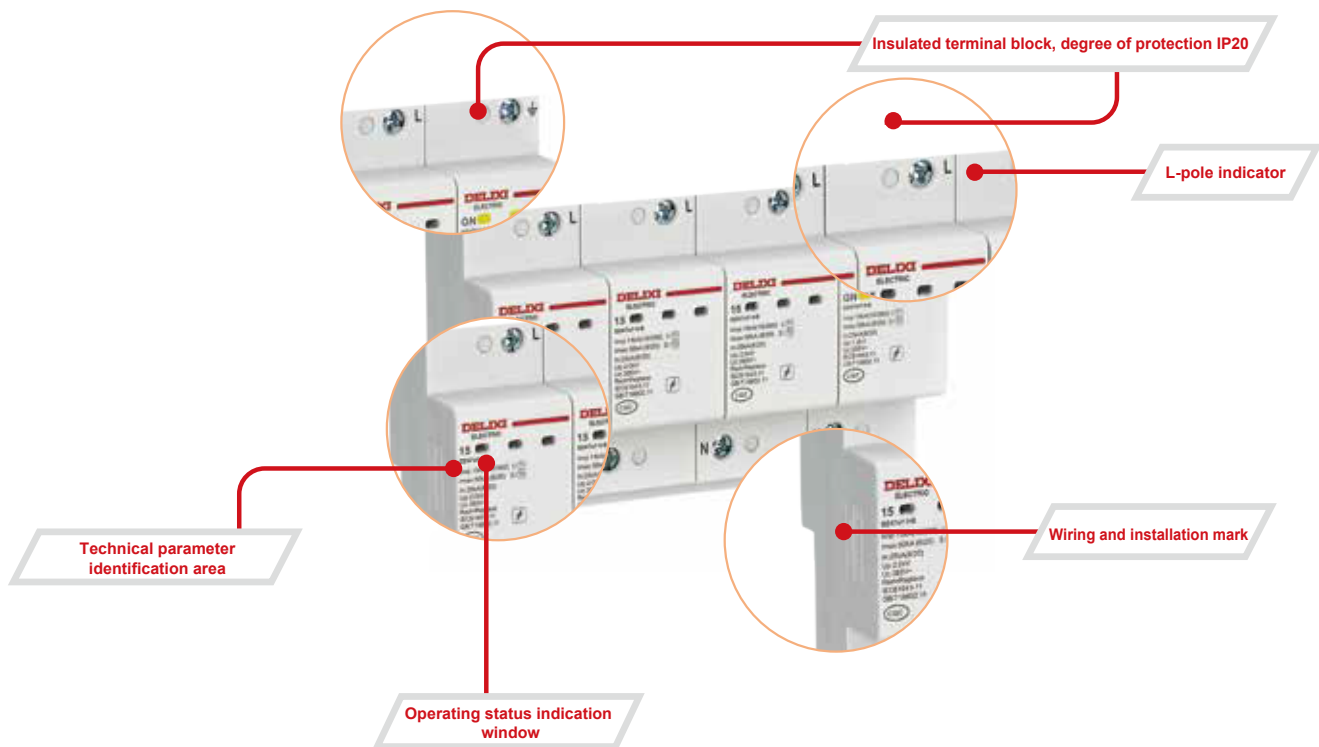


Attachment	
Remote signaling YX	
Rated working voltage Ue	125V
Rated working current Ie	1A
Contact	One normally open, one normally closed
Function	When the SPD module fails and disengages, the normally open contact will be closed and the normally closed contact will be opened to send fault information.



Wiring capacity: 1.5mm² (max)
Umax: AC125V I_{max}: 1A

Display of product details



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Attachment

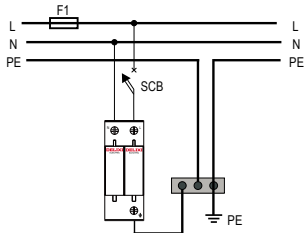


Product name	Impulse current/maximum discharge current	Number of poles	Maximum continuous voltage	Enclosure
DZ47sY-I+II	40	4	385	YX
DZ47sY-I+II	12: 12.5kA (impact current) 15:15 kA (impulse current) 25:25 kA (impulse current)	1:1P 2:2P 3:3P 4:4P	Default: 385V 275:275V 385:385V 440:440V	Default: None YX: Remote signaling accessory
DZ47sY-II	20:20kA 40:40kA 65:65kA 80:80kA 120:120kA 160:160kA	5:1P+N 6:3P+N		
DZ47sY-III	10: 10kV (open circuit voltage)	6:1P+N	320:320V	

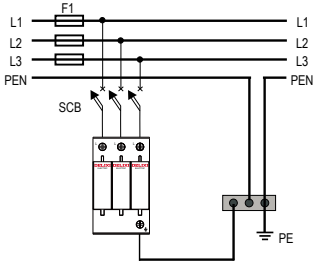
Wiring diagram

DZ47sY Installation diagram

■ TN-S system installation diagram

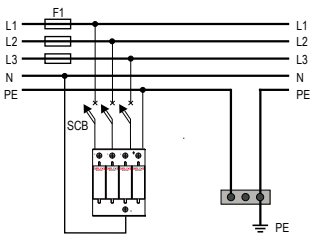
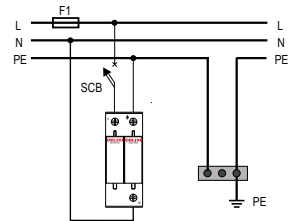


■ TN-C system Installation diagram



TT Installation diagram of system

■ TT system Installation diagram

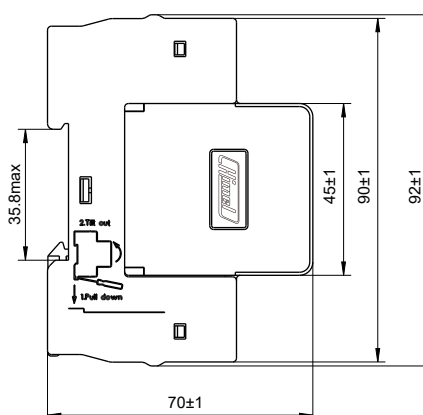
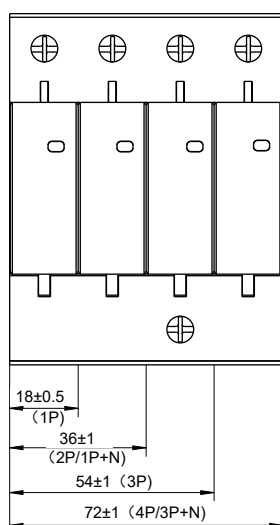


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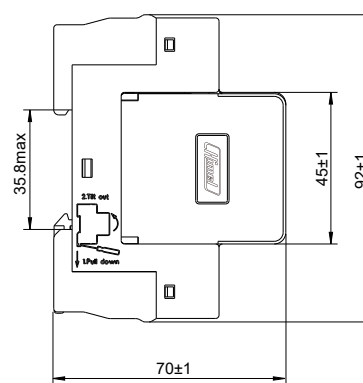
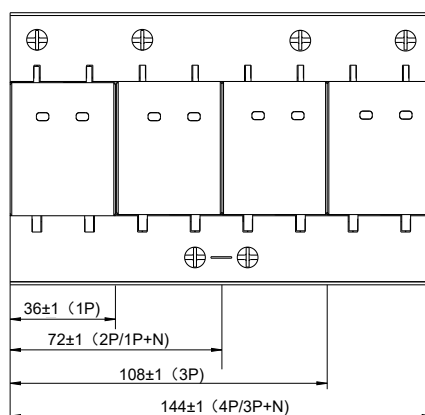
DZ47sY Power Supplies Surge Protector

Outline and Installation Dimension (mm)

DZ47sY-II 20/40/65kA



DZ47sY-II 80/120kA



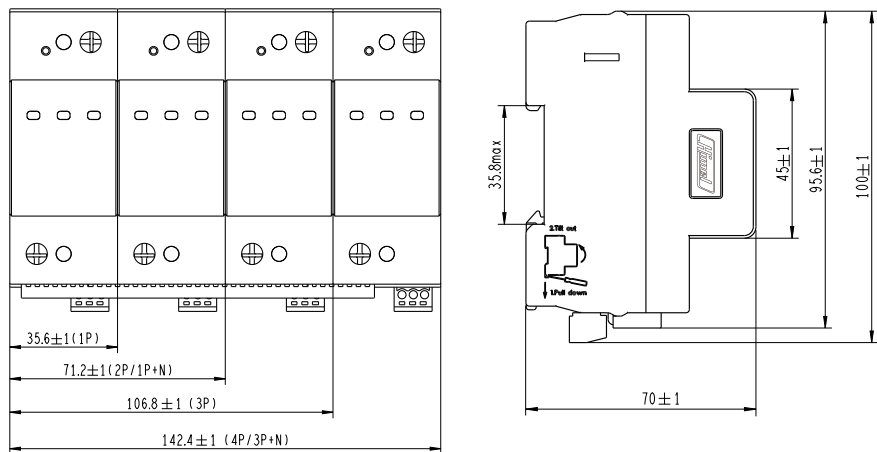
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Outline and Installation Dimension (mm)

DZ47sY-I+II 12.5/15/25kA

DZ47sY-II 160kA



DZ47sY-III

