

C3 The surge protector

DZ47sY Power supply type surge protector



Basic parameter

Main characteristics

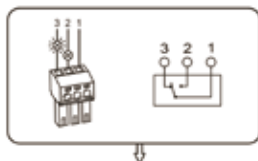
Meet the standard	GB/T 18802.1, IEC 61643-11									
Rated operating voltage U_o	230V(Phase voltage)									
Number of poles	1P,2P,3P,4P,1P+N,3P+N									1P+N
Experimental class	I (T1)			II (T2)					III (T3)	
Wave form (us)	10/350us			8/20us					8/20us	
Model number	DZ47sY-I+II			DZ47sY-II					DZ47sY-III	
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})
SCB recommended Backup protection for surges	15kA (Impulse current)			$\geq 20kA$	$\geq 40kA$	$\geq 65kA$	$\geq 80kA$	$\geq 120kA$	/	/
recommended (gL)	250A	250A	300A	50A	100A	125A	160A	200A	250A	Already built in
Recommended backup circuit breaker	/	/	/	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

Working status indicator window	Colorless: normal; Red: Failure requires immediate replacement			Green: normal; Red: Failure requires immediate replacement			Colorless: normal; Red: Failure requires immediate replacement	Green on: Normal Green Off: If the fault occurs, replace it immediately
	Optional; 11 Public end, 12 normally open, 13 normally closed; Operating voltage≤125V/ switching current ≤1A; Wiring capacity 0.5-1.5mm²							/
Remote alarm terminal accessories	When a fault occurs, the 12 normally open contact is closed, and the 13 normally closed contact is disconnected. An alarm signal is sent							/
Response time	≤25ns	≤100ns	≤25ns					
Wiring capacity	Hard wire ≤35mm², soft wire 2.5-25mm²; Limit torque 3.5N.m							≤16mm², limit torque 2N.m
Class of protection	IP20							

Attachments

Remote signaling YX	
Rated operating voltage U_e	125V
Rated working current I_e	1A
Contact point	One normally open contact, one normally closed contact
Feature	When the SPD module fails and disconnects, the normally open contact is closed and the normally closed contact is disconnected, and the fault information is sent



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

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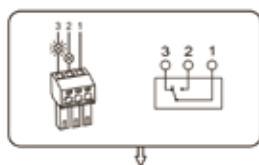
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Meet the standard:

GB/T 18802.1 IEC61643-11

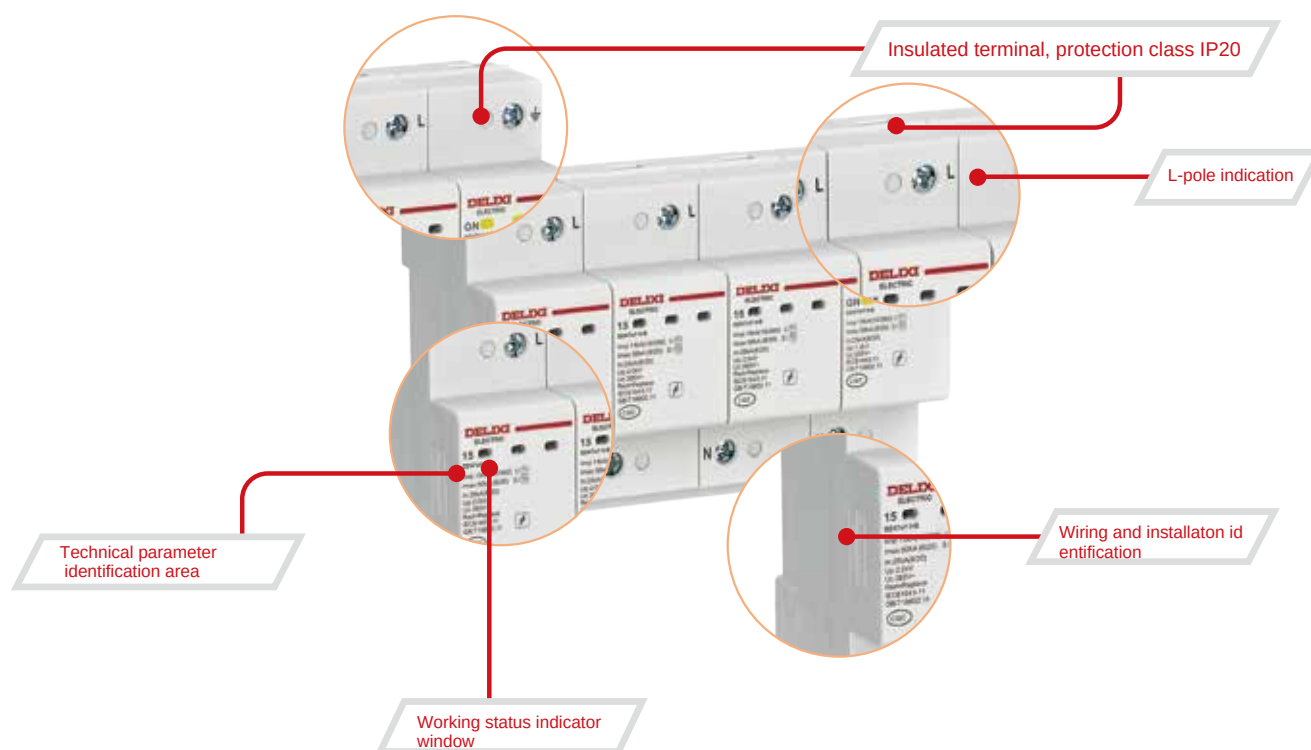


Attachment	
Remote signaling YX	
Rated operating voltage Ue	125V
Rated working current Ie	1A
Contact point	One normally open contact, one normally closed contact
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U_{max}: AC125V I_{max}: 1A

Product details display



DZ47sY power class surge protector

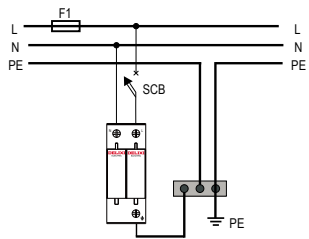


Product selection

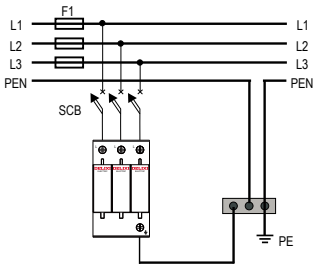
Product name	Impulse current/maximum discharge current 40	Number of poles	Maximum sustained voltage 385	Attachment
DZ47sY-I+II		4		YX
DZ47sY-I+II	12:12.5kA (impulse current) 15:15kA (impulse current) 25:25kA (impulse current)	1:1P 2:2P 3:3P 4:4P	default: 385V 275: 275V 385:385V 440:440V	Default: None YX: Remote mail attachment
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	

DZ47sY installation diagram

TN-S system installation diagram

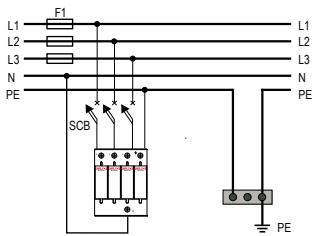
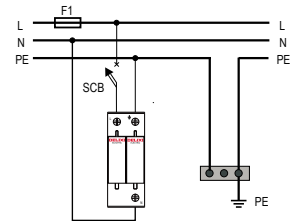


TN-C system installation diagram



TT system installation diagram

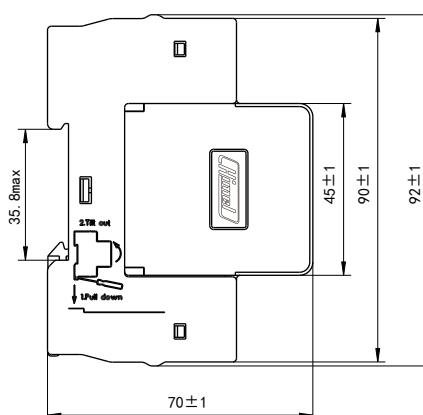
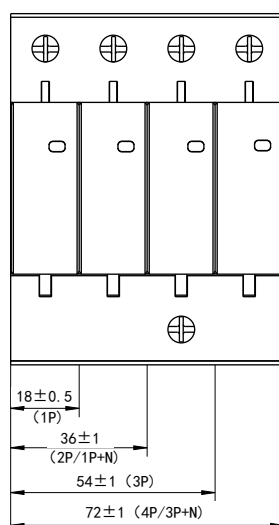
TT system installation diagram



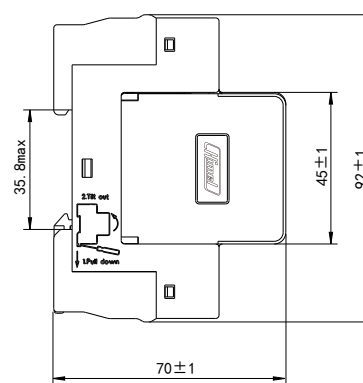
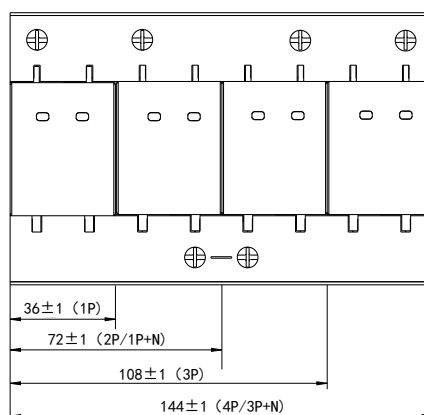
Dz47sy power surge protector

Outline and mounting

DZ47sY-II 20/40/65kA



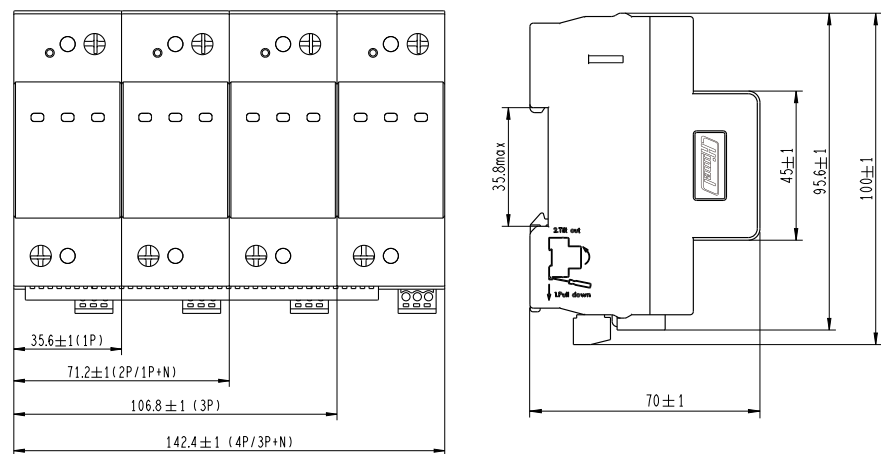
DZ47sY-II 80/120kA



DZ47sY power class surge protector

Outline and mounting

DZ47sY-I+II 12.5/15/25kA
DZ47sY-II 160kA



DZ47sY-III

