Surge Protective Device





Power supply surge protective device

TN-C-S etc. Power supply system, could be used as equipotential bonding connection between 1921 1922 and 1923 Applied to IEO(1643-1 0918802.1 standard installed in 35mm DIN rail. There has foliuse disengagement device built in. When surge protective device over heat, over current, or breakdown failure, failure viewer color will turn from Green(normal) to Redificult)

- 2. Maximum tolerance to lightning current impulse is up to 100kA/8/20us); 4. Visible window uses colors to show operating status, green (normal), red (fault).

LY1-D20

Model	LY1-D20	LY1-040	LY1-B60
Rated operating voltage Un(V)		220	
Max continuous operating voltage Uc(v')	275	420	385
Nominal discharge current In(kA)	10	20	30
Max discharge current Imax (kA)	20	40	60
Voltage protection level Up(kW)	41.2	42.0	≤2.1
Response time (ns)		<25	
Min. sectional area of incoming wire L/N (mm2)	2.5	4	- 4
Min. sectional area of incoming ground wire PE(mm²)	4	6	- 6
Fuse or circuit breaker selection	32		
Installation	Steen standard DIN Roll		wil .

Outline dimensional drawing





Power supply surge protective device



between LPZ1 LPZ2 and LPZ3 Assist to EC61643.1 GB18902.1 standard installed in 35mm DIN rail. There has failure disengagement device built in. When

- 1. Maximum tolerance to lightning current impulse is up to 150kA(5/20ps);

LY1-B100

Model	LY1-880 LY1-8100 I		LY1-B120
Rated operating voltage Un(V)	220/380		
Max continuous operating voltage Uc(V)		420	
Nominal discharge current In(kA)	40	60	80
Max discharge current Imax(kA)	80	100	120
Voltage protection level Up(kV)	42.5	42.5	42.5
Response time (ns)	<25		
Min. sectional area of incoming wire L/N (mm2)	4		
Min. sectional area of incoming ground wire PE(mm²)	6		
Fuse or circuit breaker selection (A)	63		
Installation	35mm standard DIN Rail		
Shell material	UL94-VO flame retardant plastic		lastic

Outline dimensional drawing



Power supply surge protective device



LY1-10/350 µs series switching type high energy SPD is applied to under 390V power

Product features 3. Action response time is less than 100ns.

1. Integrated type SPD unit

LY1-B(15KA)

LY1-B(15KA)
220
255
15
15
<2.0
×100
6
10
100
35mm standard DIN Rail

Outline dimensional drawing





Power supply surge protective device

LY1-10/35Qus series switching type high energy SPD is applied to under 380V power supply system for the first level lightning protection.



1. Integrated type SPD unit: 2. Maximum tolerance to lightning current impulse is up to 50kA(10/350µs); 3. Action response time is less than 100ns.

LY1-B(50KA)

Main technical parameters

Rated operating voltage Un(V)	220		
Max continuous operating voltage Uc(V)	255/385	255	
Impulse current limp(kA)	25	50	
Voltage protection level Up (kV)	42	.0	
Response time (ns)	<100		
Min. sectional area of incoming wire LIN (mm2)	4		
Min. sectional area of incoming ground wire PE(mm ²)	10		
Fuse or circuit breaker selection (A)	100		
Installation	35mm standard DIN Rail		
Shell material	UL94-VD flame retardant plastic		





LY1-BISSKA





PV surge protective device

This series surge protective device suits for new energy solar power generation system, max, continuous working voltage has DC 500V, DC 800V, DC 1000V, DC 1200V. Installed in DC circuit mail switch system, protect against indirect lightning

Product features

- 2. Visible window uses colors to show operating status, green (normal), red (fault).
- 3. Double protection of fusing and overcurrent;

Model			40 DC	
Max continuous operating voltage Uc(V)	500	800	1000	1200
Nominal discharge current In(kA)	20			
Max discharge current Irrax(kA)			10	
Voltage protection level Up(kV)	<2.2	<2.9	< 3.6	< 3.8
Response time (ns)	<25			
Min. sectional area of incoming wire L/N (mm2)	4			
Min. sectional area of incoming ground wire PE(mm²)				
Puse or circuit breaker selection (A)	32			
Installation	35mm standard DIN Rail			

Outline dimensional drawing



PV surge protective device

switch system, protect againse indirect lightning current, direct lightning current

Product overview system max, continous working voltage is 690V DC. Installed in DC circuit mail

LY1-C40 DC

or other instantaneous over-voltage protection. Product features

- 1. Plug-in type surge protective device; 2. Visible window uses colors to show operating status, green (normal), red (fault).
- 3. Double protection of fusing and overcurrent; 4. Remote signaling interface that realizes remote control.

Main technical parameters

Model	LY1-C40 DC
Max continuous operating voltage Us(V)	690
Nominal discharge current in(kA)	20
Max discharge current Imax(kA)	40
Voltage protection level Up(kV)	<2.4
Response time (ns)	<25
Min. sectional area of incoming wire LIN (mm2)	4
Min. sectional area of incoming ground wire PE(mm²)	6
Fuse or circuit breaker selection (A)	32
Installation	35mm standard DIN Rail
Shell material	UL94-VO flame retardant plastic

Outline dimensional drawing



PV miniature DC circuit breakers





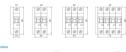
This product is suitable for non-professional personnel use and don't need to be maintained. 71.7.63 series do circuit breaker DCR00V above conduct USES the inner edge, thus the connection

mode of users and 2 p products are the same, more convenient for users to install



O PC	1P	29	3P	₽.			
Rated working voltaga Un (V)	DC 250V	DC 500V	DC 800V	DC 1000V. DC 1200V			
Rated working current In(A)	B curve; 1	2, 3, 4, 5, 6, 10	, 16, 20, 25, 32,	40, 50, 63			
Rated working current In(A)	Courve, 1, 2, 3, 4, 5, 6, 10, 16, 20, 25, 32, 40, 50, 63						
Rated breaking capacity Icn(KA)(T=4rns)	6						
Curve type	8. C						
Rated impulse withstand voltage Uimp(KV)	4						
Rated insulation voltage Ui	1200						
Lifetime	With overload equipment 10000 times. Without overload equipment 20000 tim						
Use environment	Ambient temperature: -25°C - +60°C						
With accessories	Auxiliary,alarm switch,shunt						
Max, wire connection size	25mm'						

PV miniature DC circuit breakers

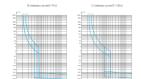


Mode of connection



Polarity DC circuit breaker Non-polar DC circuit breaker

Trip and current limiting characteristics



PV miniature DC circuit breakers

Trip and current limiting characteristics

		Plateau capacity		
Above sea level/m	2000	3000	4000	5000
Rated working voltage/V 1	500	450	400	350
	750	675	600	525
	1000	900	800	700
	1250	1125	1000	875
	1500	1350	1200	1050
Rated working current	In	0.95h	0.93ln	0.90

Item used in IP65 combiner box rated dispersion coefficients		
Main circuit	Rated dispersion coefficient	
2, 3	0.9"	
4. 5	0.85"	
6-9	0.8"	
>10	0.8"	

Product is used either altitude 2000 m and the following, above 2000 meters down, let use, other special requirements please

PV fuse and holder



Product overview

overload and short circuit current breaking, thus helping protect the PV modules plates, can also be

Main technical parameters Rand Pored



Current	Voltage Energy Integrals (1)(A's)		Wats	.001(W)	
		Pre-Arcing	Total@1000V	0.841	In
1A	1000VDC	0.15	0.4	0.8	1.5
2A.	1000VDC	1.2	3.4	0.6	1,0
3A	1000VDC	4	- 11	0.0	1,3
4A	1000VDC	9.5	26	1.0	1.5
5A	1000VDC	19	50	1.0	1.6
6A	1000VDC	30	90	1.1	1.8
EA.	1000VDC	3	32	1.2	2.1
10A	1000VDC	7	70	1,2	2,3
12A	1000VDC	12	120	1.5	2.7
15A	1000VDC	22	220	1.7	2.9
20A	1000VDC	34	350	2.1	3.6
25A	1000VDC	325	1893	1,65	2.91
	1A 2A 3A 4A 5A 6A 6A 10A 12A 15A 20A	1A 1666VDC 2A 1666VDC 3A 1666VDC 4A 1666VDC 6A 1666VDC 8A 1666VDC 10A 1666VDC 10A 1666VDC 10A 1666VDC 10A 1666VDC 10A 1666VDC 20A 1666VDC	Wedge Phys.Acrop Phys.Acr	\(\text{Wage} \) \(\text{Vage} \) \(Vage	



38 gPV Fuse holder	
,	1P,2P,3P,4P
ed voltage(VDC)	1000
ed current(A)	14,24,34,44,54,64,84,104,124,154,204,254
ed breaking capaticy(kA)	20
most high power	3.5



sted voltage(VDC)	1000
sted current(A)	1A,2A,3A,4A,5A,6A,8A,10A,12A,15A,20A,25A
nted breaking capaticy(kA)	20
ne most high power insumption(W)	3.5
onnection(mm2)	2,5~10
orkong temperature(°C)	-30-+70
esistance	Class 2
titude(m)	<2000
slative humidity	<95%
otection class/degree	IP20
ollution	3
staliation environment	No obvious shock and vibration
staliation class	Class II

Outline dimension

PV Fuse and holder









/IC4 solar conne	ctor	
Rated current	30A	
Rated voltage	1500VDC(EC)6	MODVDC(UL)
Ambient termperature range	-40°C-+90°C(II	
Degree of protection	IPS7 mated	IP2X unmated
Contact resistance of plug connectors	0.5mg	
Contact material	Copper, tin plated	
Looking system plug connectors	Snap-in(nus/only MC4)	
Flame class	UL94-HB/UL94-VD	
Cable Size	2,5mm²,4mm²,6	mm'



ted current	304	
ted voltage	1500VDC(EC)800VDC(UL)	
biert termperature range	-40°C~+90°C(II	IC)
gree of protection	IP67 mated	IP2X unmated
stact resistance of plug connectors	0.5mg	
stact material	Copper, tin plated	
king system plug connectors	Snap-in(nus/only MC4)	
rre class	UL94-HB/UL94-V0	
ble Size	2,5mm',4mm',6mm'	



ed current	50A	
ed voltage	1500VDC(IEC)800VDC(UL)	
bient tennsperature range	~40°C~+90°C(II	
pree of protection	IP97 mated	IP2X unmated
stact resistance of plug connectors	0.5mQ	
risct material	Copper, tin plated	
king system plug connectors	Snap-in(nut/only MC4)	
ne class	UL94-HB/UL94-V0	
ie Size	2 Special Ameril Report	

Power Supply SPD Backup Protector



Product features

- 1. Parameters control the trip mechanism, and it achieves selective analysis on the through-current;
- Low residual voltage of the surge current, can compare with fuse;
 High-energy contacts with long service life;
- Full specifications meet the SPD on T1, T2 and T3 levels;
 Symm standard din rail installation, meets different countries installation requirements.



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- Breaking off through power frequency current and lightning current, effectively protects SPD from fusing short-circuit due to abnormal transient overvoltage, prevents from serious fire accidents.
- Achieved selective broaking off for throughed frequency current and lightning current, effectively protects SPD from deterioration resulting in start voltage failing to less than the power supply voltage and increasing of leekage current, prevents from serious fire accidents.
- When SPO has a lightning current, the external disconnector will not be tripped by mistake, so that lightning protection of electrical equipment.
 Is always in valid state.

Scope of application

SCB SPTO special backup prelator previous professional backup prelatorion for SPTO (Storge Philaderion Device) which provides protection for the first level, second level and Seri-level equipment, it is suitable for places where SPTO (splitning protection equipment has been level as a power equipment or his bean first and other cash as power equipment in Industrial and residented buildings, electical, communications, med and transportation, personal-initial and other

Main technical parameters

Spec. & Model	QC8C8-20	QC8C8-40	QCSC8-60	QC9C8-80	QC8C8-100	QCSC8-150
Non-trip impulse current le	20kA(8/20)	40(A(5/20)	60kA(8/20)	80(A(8/20)	100kA(8/20)	15kA(8/350)
Non-trip impulse current withstand capacity	10xA(8/20)160mes 20xA(8/25)/25mes	29A(5/20)15times 49A(3/27)25ines	40A(822)769ms 60A(822)25ms	80kA(8/20)18/mes 80kA(8/20)2/mes	80A(6/20)195mes 100A(8/20)25mes	Meet the standard GE18852 1-2011 Test level T1
Electrical symbo						
Rated operating voltage Ue			230	VAC		
Rated insulation voltage Ui			400	WC		
Current tripping value to			3:	SA.		
Running short-circuit capacity (csicosed, 20-0,25)	GLA/20LA	ERA/20KA	6kA/20kA	6kA/35kA	50kA/100kA	50kA/100kA
Power frequency short-circuit current breaking time Tos		<40ms				
Power frequency load current breaking time 10		450ms				
Mechanical life	<4000times					
Dischical Me		<40006mes				
Shell IP code	IP20					
Screw	MS					
Min. area of connecting cable	2.5mm//flexible					
Max, area of connecting cable	25mm/Yeubie					
Max, allowable spending current of remote-signaling contact.	2A/250/AC NO or NC (default NC)					
Shell material	PRT UL94VO					
Outline dim	91×73×17.8mm					
Protection action and ambient temperature	-25°C 60°C inside switch					
Storage condition	Temperature -40°C~-75°C, relative humidity; <95% (at 25°C)					
Service condition	Temperature -25°C60°C, relative humidity: <96% (at 25°C)					
Shell color	Shell blue Hands crance					
Mounting rail	EN60715(35mm)					

Order mide

Model	Protection level	Limp In	Width (W)	Electrical symbol	
	74	<25kA(10/350ya) 35mm			
QC8C8-16.6		si 15kA(10/350µs)	18mm		
QCSC8-100				1	
QC9C8-80	72	< 60kA(8/20ps)	18mm	₹ 808	
QCSCB-60					
QCSC8-40					
QCSCB-20	12013	1,2084(0,2090)	1977		
	QCSC8-15.6 QCSC8-100 QCSC8-00 QCSC8-00 QCSC8-40	QCSC8-15.6 T1 QCSC8-100 QCSC8-00 QCSC8-00 QCSC8-00 QCSC8-00 QCSC8-40	GSCB-16.0 T1		

























Control Signal/DC Surge Protective Device



Product overview

LY10 series surge protective device is in series in freet of protected equipment, mainly used in communication lines, televentry signals, remote control signals etc. signal equipment, protection. It can suppress induced over-realize on the signal lines and protect equipment from hazarist signals induction.



Product overview 1. Large flow tolerance, multilevel protection.

Large flow tolerance, multilevel protects
 Fast response, low limit voltage.

Low insertion loss.
 A variety of protection rated voltage for selection.

Main technical parameters

Model	LY10		
Spec		Single port	
Rated operating voltage	12V	12V 24V 48	
Max continuous operating voltage	157	307	60V
Rated load current	500mA		
Flow withstand capacity	10KV&5KA		
Clamping voltage x-x (1.250)	60V 80V 160		160V
Transmission rate	10Mbps		
Insertion loss	< 0.2d8		
Interface type	Connection terminal		
Protection grade	IP20		

Outline dimensional drawing



Technical parameters of SCB PV power industry

Technical parameters	Level T1	Level T2	TLevel T2/T3
Model	QC8C8-100PV	QCSC8-80PV	QCSC8-60PV
Rated operating voltage (Ue)	990Y/990CV/ac	10001/30	10009/360
Rated insulation voltage (Ui)	900Y/lac	1200V/dc	1200V/dc
Application	SPD fire prevention	SPD fire prevention	SPD fire prevention
Matching SPD parameters (limp.Ln)	< 15kA10(350µs)	< 60kA(8(20µs)	<20kA(8/20ps)
Power frequency current tripping value	4A	44	44.
Power frequency current breaking times	1000	1000	1000
Power frequency short-circuit current breaking capacity (Los)	0.5kA	0.5kA	0.5kA
Max. wiring of terminal	25mm'	25mm²	25mm ²
Protection class of shell	IP20	IP20	IP20
Ambient temperature for operation	-25°C-60°C	-2510-6010	-25°C-60°C
Ambient temperature for storage	-40°C-75°C	-40°C-75°C	-40°C-75°C
Ambient temperature for operation	20%-90%	20%-50%	20%-90%
Mounting rail	En60715(35mm)	En60715(35mm)	En60715(35mm)
Remark	Switching type SDP should be matched with multi-pag		

Outline dimensional drawing



New structure new color of power supply SPD

















