Photovoltaic DC Components YCS8- Photovoltaic DC Surge Protective Device





Features

General

- protection level Up \leq 1.5kV;
- Modular, large-capacity SPD, maximum discharge current Imax=40kA; • Pluggable module;
- response speed, up to 25ns;
- module needs to be replaced;
- Remote signal contacts are optional;
- Its surge protection range can be from power system to terminal equipment;
- It is applicable to direct lightning protection and surge protection of DC systems such as PV combiner box and PV distribution cabinet.

Selection



YCS8 series is applicable to photovoltaic power generation system. When surge overvoltage occurs in the system due to lightning stroke or other reasons, the protector immediately conducts in nanosecond time to introduce the surge overvoltage to the earth, thus protecting the electrical equipment on the grid.

- T2/T1+T2 surge protection has two types of protection, which can can meet Class I (10/350 μ S waveform) and Class II (8/20 μ S waveform) SPD test, and voltage
- Based on zinc oxide technology, it has no power frequency aftercurrent and fast
- The green window indicates normal, and the red indicates a defect, and the
- Dual thermal disconnection device provides more reliable protection;

	PV	2P	DC600	/
m ge t	Use category	Number of poles	Maximum continuous working voltage	Functions
A	PV: Photovoltaic/ direct-current	2: 2P	DC600	
		3: 3P	DC1000	
			Dc1500 (Only type S)	/: Non communication
		2: 2P	DC600	R: Remote
		3: 3P	Dc1000	communication
			Dc1500 (Only type S)	

Photovoltaic DC Components YCS8Photovoltaic DC Surge Protective Device

Technical data

Model		YCS8					
Standard		IEC61643-31:2018; EN 50539-11:2013+A1:2014					
Test category		T1	+T2	T2			
Number of poles		2P	3P	2P	3P		
Maximum continuous	working voltage Ucpv	600VDC	600VDC 1000VDC 600VDC				
Maximum discharge cu	irrent Imax(kA)	40					
Nominal discharge cur	rent In(kA)	20					
Maximum impulse curi	rent limp(kA)	6.	25	/			
Voltage protection level Up(kV)		2.2	3.6	2.2	3.6		
Response time tA(ns)		≤25					
Remote and indication							
Working status/fault indication		Green/red					
Remote contacts		Optional					
Remote terminal	AC	250V/0.5A					
switching capability	DC	250VDC/0.1A/125VDC 0.2A/75VDC/0.5A					
Remote terminal connection capability		1.5mm ²					
Installation and enviro	nment						
Working temperature r	ange	-40°C-+70°C					
Allowable working hun	nidity	5%95%					
Air pressure/altitude		80k Pa106k Pa/-500m2000m					
Terminal torque		4.5Nm					
Conductor cross sectio	n(maximum)	35mm ²					
Installation method		DIN35 standard din-rail					
Protection degree		IP20					
Shell material		Fire-proof level UL 94 V-0					
Thermal protection		Yes					

Note: 2P can be customized other voltage

Photovoltaic DC Components YCS8Photovoltaic DC Surge Protective Device

Technical data										
Model	YCS8-S									
Standard	IEC61643-31:2018; EN 50539-11:2013+A1:2014									
Test category	T1+T2				T2					
Number of poles	Number of poles			3P	2P	3P	3P			
Maximum continuous working voltage Ucpv		600VDC	1000VDC	1500VDC	600VDC	1000VDC	1500VDC			
Maximum discharge current Imax(kA)		40								
Nominal discharge current ln(kA)	20									
Maximum impulse current limp(kA)		6.25			/					
Voltage protection level Up(kV)		2.2	3.6	5.6	2.2	3.6	5.6			
Response time tA(ns)		≤25								
Remote and indication										
Working status/fault indication		Green/red								
Remote contacts		Optional								
Remote terminal AC		250V/0.5A								
switching capability DC		250VDC/0.1A/125VDC 0.2A/75VDC/0.5A								
Remote terminal connection capability		1.5mm ²								
Installation and environment										
Working temperature range	Working temperature range			-40°C-+70°C						
Allowable working humidity	5%95%									
Air pressure/altitude		80k Pa106k Pa/-500m2000m								
Terminal torque	4.5Nm									
Conductor cross section(maximum	35mm ²									
Installation method	DIN35 standard din-rail									
Protection degree	IP20									
Shell material	Fire-proof level UL 94 V-0									
Thermal protection	Yes									

Note: 2P can be customized other voltage

Failure release device, Alarm release device

Failure release device

The surge protective device is equipped with a failure protection device. When the protector is broken down due to overheating, the failure protection device can automatically disconnect it from the power grid and give an indication signal. The window displays green when the protector is normal, and red when the protector fails.

Alarm remote signaling device

The protector can be made into a variety with remote signaling contacts. The remote signaling contacts have a set of normally open and normally closed contacts. When the protector works normally, the normally closed contacts are connected. If one or more modules of the protector fail, the contact will change from normally open to normally closed, and the normally open contact will work and send a fault message.



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Wiring diagram



Overall and mounting dimensions(mm)

YCS8





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YCS8-S DC1500





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