

FSP-D40

Type 1+2 DC Surge Protective Device

FSP-D40 is a Type 1+2 surge protector specially designed for photovoltaic power generation, it is installed at the outlet of photovoltaic panels with high risk of direct lightning strike, it is suitable for photovoltaic system protection with DC voltages of 1000V and 1500V.



Features

- ☐ Type 1+2 surge protective device for Photovoltaic
- ☐ VG-Technology
- ☐ Up to 1500 Vdc
- ☐ No leakage, no operating currents
- ☐ Impulse currents I_{imp}/I_{total} : 5/20 μ s & 10/350 μ s
- ☐ Common and Differential Mode protection
- ☐ Plug-in modules
- ☐ Remote Signaling (option)
- ☐ EN 61643-31 compliance

Specifications

Model		FSP-D40		
Description		63		
Pole		2P	3P	3P
Protection mode		CM/DM		
Max. operating voltage	Ucpv	600Vdc	1000Vdc	1500Vdc
Current withstand short-circuit	Iscpv	1000A		
Operating current - to the voltage Ucpv	Icpv	none		
Leakage current - to the voltage Ucpv	Ipe	none		

Specifications

Model		FSP-D40
Follow current	If	none
Nominal discharge current - 8/20 us	In	20KA
Max discharge current by pole - 8/20 us	I _{max}	40KA
Max. Lightning current by pole - 10/350 us	I _{imp}	7KA
Total lightning current - 10/350 us	I _{total}	10KA
Total Maximal discharge current - 8/20 us	I _{tota}	60KA
Protection level CM/DM (at In)	Up	2.8KV 3.5KV 5.1KV
Mechanical characteristics		
Dimensions		See diagram
Connection		Screw terminal for 2.5-25 mm ² wire
Disconnection indicator		1 mechanical indicator by pole
Remote signaling		Option FSP-D40 - Output on changeover contact
Mounting		Symmetrical rail 35mm (EN60715)
Operating temperature		-40 °C ~ +85 °C
Protection class		IP20
Housing material		Thermoplastic UL94-V0

Dimensions

