FLP-12,5 V/1S+1

SPD - for low voltage / SPD type 1 / MOV

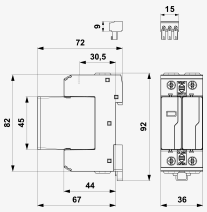
Lightning current and surge arrester for single-phase system TT

pluggable module, visual fault signalling, module locking, remote fault signalling

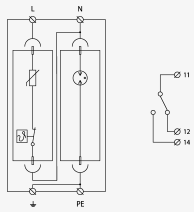
- combination of varistor lightning current arrester and encapsulated efficiency spark gap, connected in the 1+1 mode
- installation at the boundary of zones LPZ 0 and LPZ 1 or higher, for objects in LPL III and IV
- for protection against impact of partial lightning currents, induced overvoltages during a lightning strike or switching overvoltages



Product dimensions



Basic circuit diagram



Parameter name		Parameter value
Type of SPD		T1,T2
Mounting		DIN rail 35 mm
Nominal voltage	U_n	230.00 V AC
Maximum operating voltage L-N	U_c	275.00 V AC
Maximum operating voltage N-PE	U_c	255.00 V AC
Type of network		TT
Maximum overcurrent protection		160 A gL/gG
Short-circuit current rating	I_{SCCR}	50.0 kA
Total discharge current (10/350 µs)	$I_{Total(10/350)}$	25.00 kA
Lightning impulse current (10/350 µs) L-N	I_{imp}	12.50 kA
Lightning impulse current (10/350 µs) N-PE	I_{imp}	25.00 kA
Nominal discharge current (8/20 µs) L-N	I_n	30.00 kA
Nominal discharge current (8/20 µs) N-PE	I_n	30.00 kA
Maximum discharge current (8/20 µs) L-N	I_{max}	60.00 kA
Maximum discharge current (8/20 µs) N-PE	I_{max}	60.00 kA
Voltage protection level mode L-N	U_p	1.50 kV
Voltage protection level mode L-PE	U_p	1.50 kV

Voltage protection level mode N-PE	U_p	1.50 kV
Voltage protection level at 5 kA L-N	U_p	0.90 kV
Ability to independently switch off the following current N-PE	I_{fi}	100.0 kA
Response time L-N	t_a	25 ns
Response time N-PE	t_a	100 ns
TOV 5 s L-N		335 V
TOV characteristic (TOV 5 s)		withstand
TOV 200 ms N-PE		1 200 V
TOV characteristic (TOV 200 ms)		withstand
Cross-section of connected conductors solid (min)		1.00 mm^2
Cross-section of connected conductors solid (max)		35.00 mm^2
Cross-section of connected conductors stranded (min)		1.00 mm^2
Cross-section of connected conductors stranded (max)		25.00 mm^2
Cross-section of remote indication conductors solid (max)		1.5 mm^2
Cross-section of remote indication conductors stranded (max)		1.5 mm^2
Fault indication L-N		red indication field
Remote indication		potential-free change-over contact
Remote indication contacts		250V/0,5A AC,250V/0,1A DC
Degree of protection		IP 20
Range of ambient temperatures (min/max)		-40 / 80 °C
Humidity		5 - 95 %
According to standard		EN 61643-11:2012, IEC 61643-11:2011
ETIM Class		EC001457
Plug module		FLP-12,5 V/0|FLP-NPE 25 V/0
Customs tariff number		85363090
EAN		8595090534242
Order number		A03424