

# FLP-ZP-12,5-VBH/3+1

## SPD - for low voltage / SPD type 1 / 40 mm busbar system - T1+T2 (12,5 kA)

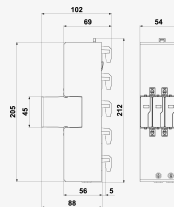
Combination of lightning current and surge arrester for systems TN and TT

pluggable module, visual fault signalling, module locking, onto 40 mm busbar system

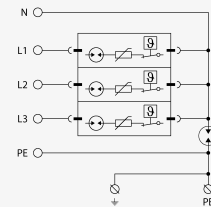
- high performance lightning current arrester, installation at the boundary of zones LPZ 0 and LPZ 1 or higher, mainly to main distribution boards upstream power meters
- for protection against impact of direct or indirect lightning strikes in wide range of applications – houses, office or industrial buildings, resp. to sub- distribution boards in large buildings, for application in Germany



Product dimensions



Basic circuit diagram



Parameter name	Parameter value
Type of SPD	T1,T2,T3
Mounting	40 mm busbar system
Nominal voltage	$U_n$ 230.00 V AC
Maximum operating voltage L-N	$U_c$ 255.00 V AC
Maximum operating voltage N-PE	$U_c$ 255.00 V AC
Type of network	TT TN-S
Maximum overcurrent protection	160 A gL/gG
Short-circuit current rating	$I_{SCCR}$ 25.0 kA
Total discharge current (10/350 $\mu$ s)	$I_{Total(10/350)}$ 50.00 kA
Lightning impulse current (10/350 $\mu$ s) L-N	$I_{imp}$ 12.50 kA
Lightning impulse current (10/350 $\mu$ s) N-PE	$I_{imp}$ 50.00 kA
Nominal discharge current (8/20 $\mu$ s) L-N	$I_n$ 20.00 kA
Nominal discharge current (8/20 $\mu$ s) N-PE	$I_n$ 50.00 kA
Test voltage	$U_{oc}$ 10.0 kV
Total discharge current (8/20 $\mu$ s)	$I_{Total(8/20)}$ 100.00 kA

Maximum discharge current (8/20 $\mu$ s) L-N	$I_{max}$	60.00 kA
Maximum discharge current (8/20 $\mu$ s) N-PE	$I_{max}$	100.00 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
Response time L-N	$t_a$	100 ns
Response time N-PE	$t_a$	100 ns
TOV 5 s L-N		335 V
TOV 5 s L-PE		440 V
TOV characteristic (TOV 5 s)		withstand
TOV 120 min L-N		440 V
TOV 120 min L-PE		335 V
TOV characteristic (120 min)		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 <sup>2</sup>
Cross-section of connected conductors solid (max)		35.00 mm <sup>2</sup>
Cross-section of connected conductors stranded (min)		1.00 mm <sup>2</sup>
Cross-section of connected conductors stranded (max)		25.00 mm <sup>2</sup>
Fault indication		red indication field
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		EC000381
Plug module		FLP-ZP-12,5-VBH/0
Customs tariff number		85363090
EAN		8595090566274
Order number		A06627