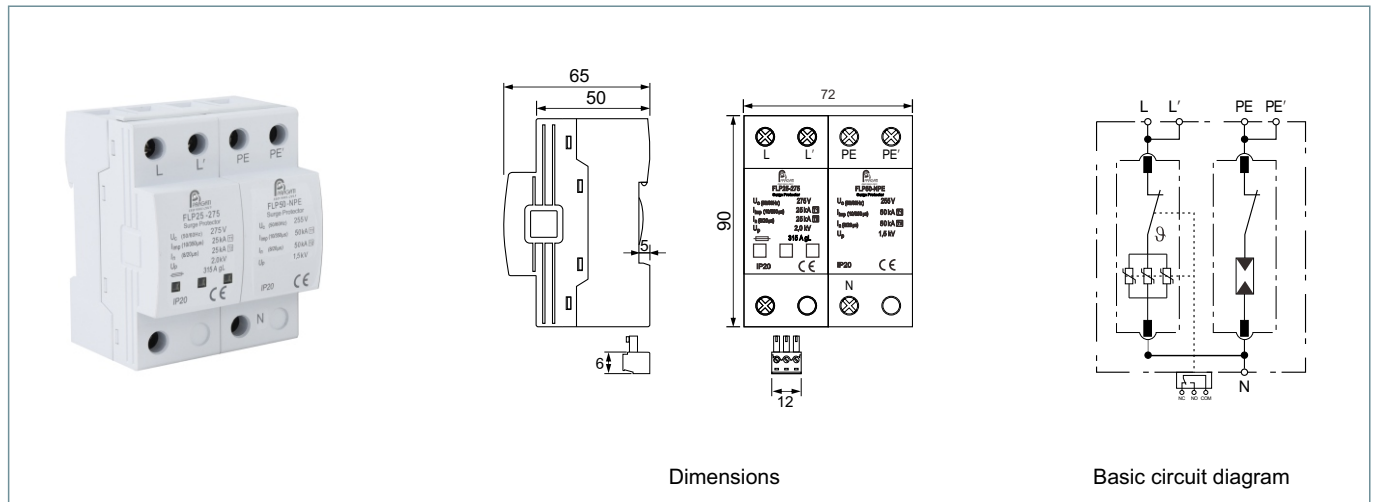


## FLP25-275/1+1 FLP25-275/1S+1

Modular surge arrester for use in TT and TN systems ("1+1" circuit); with floating remote signalling contact.

- For type 1 and type 2 surge arrester for ac systems
- High discharge capacity due to heavyduty zinc oxide varistor / spark gap
- High reliability due to "Thermo Dynamic Control" SPD monitoring device
- Remote status signaling ("S")
- Visual fault signaling



Dimensions

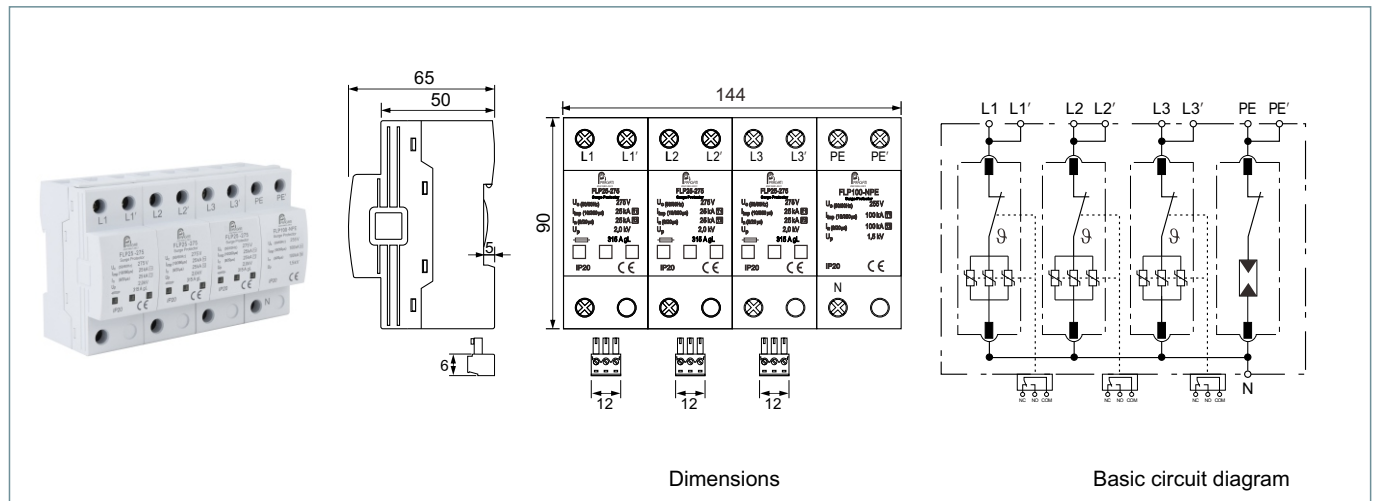
Basic circuit diagram

Type	FLP25-275/1+1	FLP25-275/1S+1
SPD according to EN 61643-11 / IEC 61643-11	type 1 + type 2 / class I + class II	type 1 + type 2 / class I + class II
Nominal a.c. voltage $U_n$	230 V AC (50/60Hz)	230 V AC (50/60Hz)
Max. continuous operating a.c. voltage [L-N] $U_c$	275 V AC (50/60Hz)	275 V AC (50/60Hz)
Max. continuous operating a.c. voltage [N-PE] $U_c$	255 V AC (50/60Hz)	255 V AC (50/60Hz)
Nominal discharge current (8/20 $\mu$ s) $I_n$	25 kA	25 kA
Maximum discharge current (8/20 $\mu$ s) $I_{max}$	100 kA	100 kA
Lightning impulse current (10/350 $\mu$ s) [L/N] $I_{imp}$	25 kA	25 kA
Lightning impulse current (10/350 $\mu$ s) [N-PE] $I_{imp}$	50 kA	50 kA
Voltage Protection level [L-N] $U_p$	2,0 kV	2,0 kV
Voltage Protection level [N-PE] $U_p$	1,5 kV	1,5 kV
Response time [L-N / N-PE] $t_a$	25 ns / 100 ns	25 ns / 100 ns
Follow current extinguishing capability $I_{fi}$	50 kA <sub>rms</sub>	50 kA <sub>rms</sub>
Max. backup fuse (L) up to $I_k = 50$ kA <sub>rms</sub>	315 A gL/gG	315 A gL/gG
Max. backup fuse (L-L')	125 A gL/gG	125 A gL/gG
Temporary overvoltage (TOV) [L-N] ( $U_T$ ) - Characteristic	530 V / 120 min. - withstand	530 V / 120 min. - withstand
Temporary overvoltage (TOV) [N-PE] ( $U_T$ ) - Characteristic	1200 V / 200 ms. - withstand	1200 V / 200 ms. - withstand
Range of operating temperatures	-40/+70°C	-40/+70°C
Operating state / fault indication	green / red	green / red
Cross-sectional area (L1, L1', L2, L2', L3, L3', N, N', PE) (min.)	10 mm <sup>2</sup> solid /flexible	10 mm <sup>2</sup> solid /flexible
Cross-sectional area (L1, L2, L3, N, PE) (max.)	50 mm <sup>2</sup> stranded / 35 mm <sup>2</sup> flexible	50 mm <sup>2</sup> stranded / 35 mm <sup>2</sup> flexible
Cross-sectional area (L1', L2', L3', N', PE) (max.)	35 mm <sup>2</sup> stranded / 25 mm <sup>2</sup> flexible	35 mm <sup>2</sup> stranded / 25 mm <sup>2</sup> flexible
For mounting on	35 mm DIN rail acc. to EN 60715	35 mm DIN rail acc. to EN 60715
Enclosure material	thermoplastic	thermoplastic
Place of installation	indoor installation	indoor installation
Degree of protection	IP 20	IP 20
Capacity	4 module(s), DIN 43880	4 module(s), DIN 43880
Approvals	-	-
Type of remote signalling contact	-	changeover contact
a.c. switching capacity	-	250V / 0.5 A
d.c. switching capacity	-	250V / 0.1 A; 125 V / 0.2 A; 75 V / 0.5 A
Cross-sectional area for remote signalling terminals	-	max. 1.5 mm <sup>2</sup> solid / flexible

## FLP25-275/3+1 FLP25-275/3S+1

Modular surge arrester for use in TT and TN systems ("3+1" circuit); with floating remote signalling contact.

- For type 1 and type 2 surge arrester for ac systems
- High discharge capacity due to heavyduty zinc oxide varistor / spark gap
- High reliability due to "Thermo Dynamic Control" SPD monitoring device
- Remote status signaling ("S")
- Visual fault signaling



Type	FLP25-275/3+1	FLP25-275/3S+1
SPD according to EN 61643-11 / IEC 61643-11	type 1 + type 2 / class I + class II	type 1 + type 2 / class I + class II
Nominal a.c. voltage $U_n$	230 V AC (50/60Hz)	230 V AC (50/60Hz)
Max. continuous operating a.c. voltage [L-N] $U_c$	275 V AC (50/60Hz)	275 V AC (50/60Hz)
Max. continuous operating a.c. voltage [N-PE] $U_c$	255 V AC (50/60Hz)	255 V AC (50/60Hz)
Nominal discharge current (8/20 $\mu$ s) $I_n$	25 kA	25 kA
Maximum discharge current (8/20 $\mu$ s) $I_{max}$	100 kA	100 kA
Lightning impulse current (10/350 $\mu$ s) [L/N] $I_{imp}$	25 kA	25 kA
Lightning impulse current (10/350 $\mu$ s) [N-PE] $I_{imp}$	100 kA	100 kA
Voltage Protection level [L-N] $U_p$	2,0 kV	2,0 kV
Voltage Protection level [N-PE] $U_p$	1,5 kV	1,5 kV
Response time [L-N / N-PE] $t_a$	25 ns / 100 ns	25 ns / 100 ns
Follow current extinguishing capability $I_{fi}$	50 kA <sub>rms</sub>	50 kA <sub>rms</sub>
Max. backup fuse (L) up to $I_k = 50$ kA <sub>rms</sub>	315 A gL/gG	315 A gL/gG
Max. backup fuse (L-L')	125 A gL/gG	125 A gL/gG
Temporary overvoltage (TOV) [L-N] ( $U_T$ ) - Characteristic	530 V / 120 min. - withstand	530 V / 120 min. - withstand
Temporary overvoltage (TOV) [N-PE] ( $U_T$ ) - Characteristic	1200 V / 200 ms. - withstand	1200 V / 200 ms. - withstand
Range of operating temperatures	-40/+70°C	-40/+70°C
Operating state / fault indication	green / red	green / red
Cross-sectional area (L1, L1', L2, L2', L3, L3', N, N', PE) (min.)	10 mm <sup>2</sup> solid /flexible	10 mm <sup>2</sup> solid /flexible
Cross-sectional area (L1, L2, L3, N, PE) (max.)	50 mm <sup>2</sup> stranded / 35 mm <sup>2</sup> flexible	50 mm <sup>2</sup> stranded / 35 mm <sup>2</sup> flexible
Cross-sectional area (L1', L2', L3', N', PE) (max.)	35 mm <sup>2</sup> stranded / 25 mm <sup>2</sup> flexible	35 mm <sup>2</sup> stranded / 25 mm <sup>2</sup> flexible
For mounting on	35 mm DIN rail acc. to EN 60715	35 mm DIN rail acc. to EN 60715
Enclosure material	thermoplastic	thermoplastic
Place of installation	indoor installation	indoor installation
Degree of protection	IP 20	IP 20
Capacity	8 module(s), DIN 43880	8 module(s), DIN 43880
Approvals	-	-
Type of remote signalling contact	-	changeover contact
a.c. switching capacity	-	250V / 0.5 A
d.c. switching capacity	-	250V / 0.1 A; 125 V / 0.2 A; 75 V / 0.5 A
Cross-sectional area for remote signalling terminals	-	max. 1.5 mm <sup>2</sup> solid / flexible