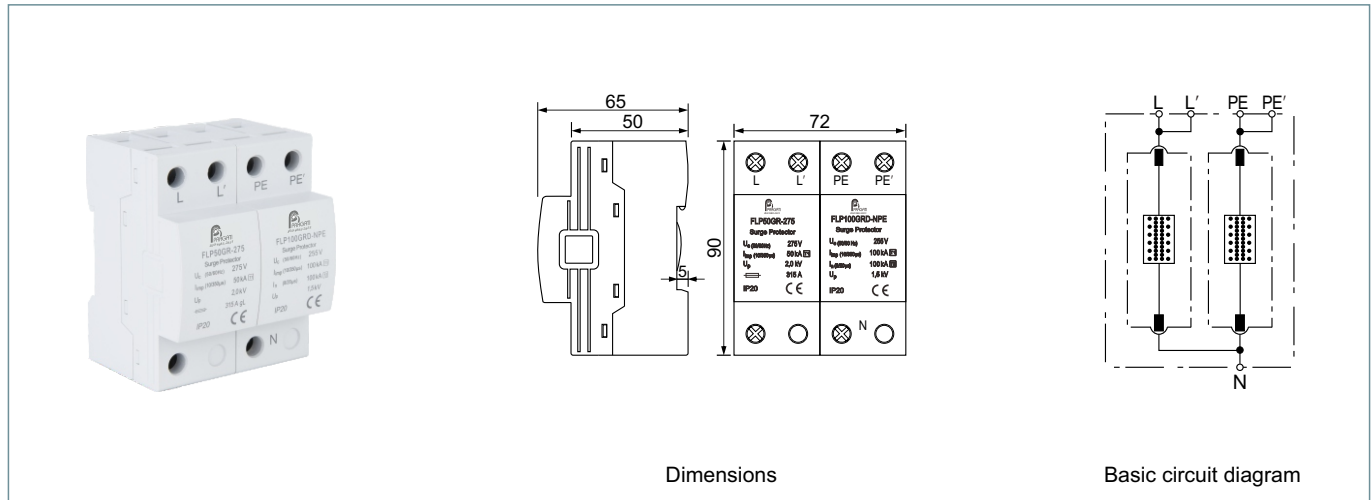


## FLP50GR-275/1+1

Integral housing coordinated lightning current and surge arrester for protecting single-phase TT and TN systems ("1+1" circuit) against surges.

- Coordinated spark-gap-based lightning current and surge arrester
- Maximum systems availability due to RADAX Flow follow current limitation
- Capable of protecting terminal equipment

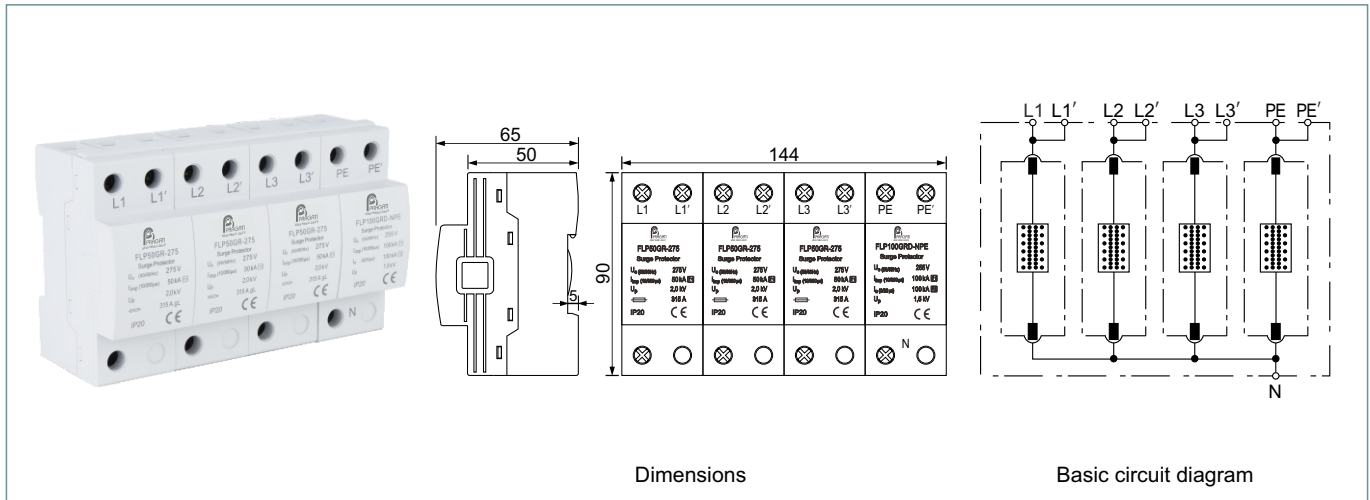


Type	FLP50GR-275/1+1	
SPD according to EN 61643-11 / IEC 61643-11	type 1 / class I	
Nominal a.c. voltage	$U_n$	230 / 400 V AC (50/60 Hz)
Max. continuous operating a.c. voltage [L-N]	$U_c$	275 V AC (50/60 Hz)
Max. continuous operating a.c. voltage [N-PE]	$U_{c(N-PE)}$	255 V AC (50/60 Hz)
Lightning impulse current (10/350 $\mu$ s) [L+N-PE]	$I_{total}$	100 kA
Specific energy [L+N-PE] (W/R)		625,00 kJ/ohms
Lightning impulse current (10/350 $\mu$ s) [L-N]/[N-PE]	$I_{imp}$	50 kA / 100 kA
Specific energy [L-N]/[N-PE] (W/R)		625,00 kJ/ohms / 1,25 MJ/ohms
Nominal discharge current (8/20 $\mu$ s) [L-N]/[N-PE]	$I_n$	50 kA / 100 kA
Voltage protection level [L-N]/[N-PE]	$U_p$	2,0 kV / 1,5 kV
Follow current extinguishing capability a.c.	$I_{fi}$	50 kA <sub>rms</sub> / 100 A <sub>rms</sub>
Follow current limitation / Selectivity		no tripping of a 20 A gL/gG fuse up to 50 kA <sub>rms</sub> (prosp.)
Response time	$t_A$	< 100 ns
Max. backup fuse (L) up to $I_k = 50$ kA <sub>rms</sub> ( $t_a < 0,2$ s)		500 A gL/gG
Max. backup fuse (L) up to $I_k = 50$ kA <sub>rms</sub> ( $t_a < 5$ s)		315 A gL/gG
Max. backup fuse (L) up to $I_k > 50$ kA <sub>rms</sub>		200 A gL/gG
Max. backup fuse (L-L')		125 A gL/gG
Temporary overvoltage [L-N] (TOV) ( $U_T$ ) - Characteristic		530 V / 120 min. - withstand
Temporary overvoltage [N-PE] (TOV) ( $U_T$ ) - Characteristic		1200 V / 200 ms. - withstand
Range of operating temperatures [parallel]/[series]	$T_U$	-40...+80°C / -40...+60°C
Operating state / fault indication		-
Number of ports		1
Cross-sectional area (L, L', N, PE, PE') (min.)		10 mm <sup>2</sup> solid / flexible
Cross-sectional area (L, N, PE) (max.)		50 mm <sup>2</sup> stranded / 35 mm <sup>2</sup> flexible
Cross-sectional area (L', PE') (max.)		35 mm <sup>2</sup> stranded / 25 mm <sup>2</sup> flexible
For mounting on		35 mm DIN rail acc. to EN 60715
Enclosure material		thermoplastic
Place of installation		indoor installation
Degree of protection		IP20
Capacity		4 module(s), DIN 43880
Approvals		CE

## FLP50GR-275/3+1

Integral housing coordinated lightning current and surge arrester for protecting three-phase TT and TN-S systems ("3+1" circuit) against surges.

- Coordinated spark-gap-based lightning current and surge arrester
- Maximum systems availability due to RADAX Flow follow current limitation
- Capable of protecting terminal equipment



Type	FLP50GR-275/3+1	
SPD according to EN 61643-11 / IEC 61643-11	type 1 / class I	
Nominal a.c. voltage	$U_n$	230 / 400 V AC (50/60 Hz)
Max. continuous operating a.c. voltage [L-N]	$U_c$	275 V AC (50/60 Hz)
Max. continuous operating a.c. voltage [N-PE]	$U_{c(N-PE)}$	255 V AC (50/60 Hz)
Lightning impulse current (10/350 $\mu$ s) [L1+L2+L3+N-PE]	$I_{total}$	200 kA
Specific energy [L1+L2+L3+N-PE] (W/R)		2,5 MJ/ohms
Lightning impulse current (10/350 $\mu$ s) [L-N]/[N-PE]	$I_{imp}$	50 kA / 100 kA
Specific energy [L-N]/[N-PE] (W/R)		625,00 kJ/ohms / 2,5 MJ/ohms
Nominal discharge current (8/20 $\mu$ s) [L-N]/[N-PE]	$I_n$	50 kA / 100 kA
Voltage protection level [L-N]/[N-PE]	$U_p$	2,0 kV / 1,5 kV
Follow current extinguishing capability a.c.	$I_{fi}$	50 kA <sub>rms</sub> / 100 A <sub>rms</sub>
Follow current limitation / Selectivity		no tripping of a 20 A gL/gG fuse up to 50 kA <sub>rms</sub> (prosp.)
Response time	$t_A$	< 100 ns
Max. backup fuse (L) up to $I_k = 50$ kA <sub>rms</sub> ( $t_a < 0,2$ s)		500 A gL/gG
Max. backup fuse (L) up to $I_k = 50$ kA <sub>rms</sub> ( $t_a < 5$ s)		315 A gL/gG
Max. backup fuse (L) up to $I_k > 50$ kA <sub>rms</sub>		200 A gL/gG
Max. backup fuse (L-L')		125 A gL/gG
Temporary overvoltage [L-N] (TOV) ( $U_T$ ) - Characteristic		530 V / 120 min. - withstand
Temporary overvoltage [N-PE] (TOV) ( $U_T$ ) - Characteristic		1200 V / 200 ms. - withstand
Range of operating temperatures [parallel]/[series]	$T_U$	-40...+80°C / -40...+60°C
Operating state / fault indication		-
Number of ports		1
Cross-sectional area (L1, L1', L2, L2', L3, L3', N, PE, PE') (min.)		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
Cross-sectional area (L1', L2', L3', PE') (max.)		35 mm <sup>2</sup> stranded / 25 mm <sup>2</sup> flexible
For mounting on		35 mm DIN rail acc. to EN 60715
Enclosure material		thermoplastic
Place of installation		indoor installation
Degree of protection		IP20
Capacity		8 module(s), DIN 43880
Approvals		CE