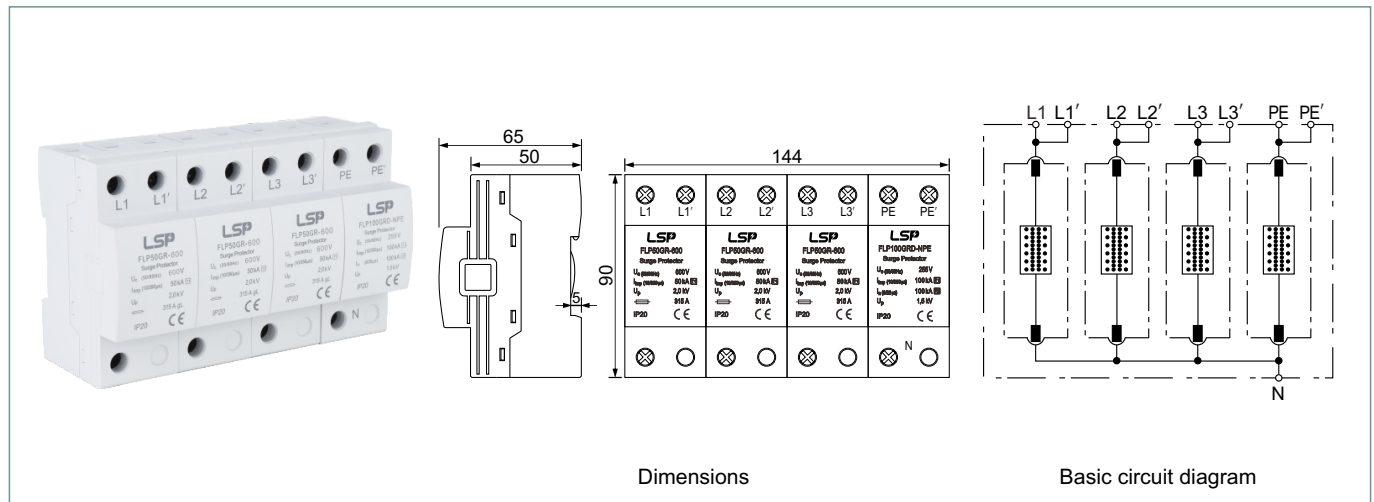


## FLP50GR-600/3+1

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-600/3+1  |  |
|--|------------------|--|
| SPD according to EN 61643-11 / IEC 61643-11                              | type 1 / class I |  |
| Nominal a.c. voltage   | $U_n$            | 480 V AC (50/60 Hz)  |
| Max. continuous operating a.c. voltage [L-N]                             | $U_c$            | 600 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             |                  | 915 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   |