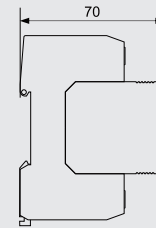
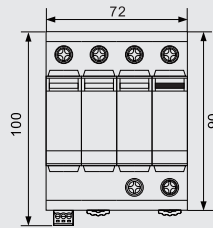
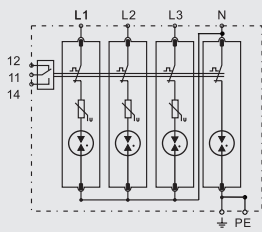


## BR-40VG 3+1

### Type 2 Surge Arrester



BR-40VG 3+1 surge arrester is suitable for TT and TN-S system.

|  | BR-40VG 150 3+1       | BR-40VG 275 3+1   | BR-40VG 320 3+1   | BR-40VG 385 3+1   | BR-40VG 440 3+1   |
|--|-----------------------|-------------------|-------------------|-------------------|-------------------|
| SPD classification according to EN61643-11                   | Type 2                | Type 2            | Type 2            | Type 2            | Type 2            |
| SPD classification according to IEC61643-11                  | Class II              | Class II          | Class II          | Class II          | Class II          |
| Max. continuous operating a.c. voltage [L-N] $U_c$           | 150V                  | 275V              | 320V              | 385V              | 440V              |
| Max. continuous operating a.c. voltage [N-PE] $U_c$          | 255V                  | 255V              | 255V              | 255V              | 255V              |
| Nominal discharge current (8/20 $\mu$ s) $I_n$               | 20kA                  | 20kA              | 20kA              | 20kA              | 20kA              |
| Max. discharge current (8/20 $\mu$ s) $I_{max}$              | 40kA                  | 40kA              | 40kA              | 40kA              | 40kA              |
| Voltage protection level [L-N] $U_p$                         | $\leq 1.3kV$          | $\leq 1.3kV$      | $\leq 1.5kV$      | $\leq 1.8kV$      | $\leq 2.0kV$      |
| Voltage protection level [N-PE] $U_p$                        | $\leq 1.5kV$          | $\leq 1.5kV$      | $\leq 1.5kV$      | $\leq 1.5kV$      | $\leq 1.5kV$      |
| Short-circuit withstand capacity $I_{SCCR}$                  | 25kA                  | 25kA              | 25kA              | 25kA              | 25kA              |
| Temporary overvoltage TOV-withstand [L-N] $U_T$              | 180V/5sec.            | 335V/5sec.        | 400V/5sec.        | 500V/5sec.        | 580V/5sec.        |
| Temporary overvoltage TOV-safe failure [L-N] $U_T$           | 230V/120min.          | 440V/120min.      | 520V/120min.      | 650V/120min.      | 765V/120min.      |
| Temporary overvoltage TOV-withstand [N-PE] $U_T$             | 1200V/200ms           | 1200V/200ms       | 1200V/200ms       | 1200V/200ms       | 1200V/200ms       |
| Follow current extinguishing capability a.c. [N-PE] $I_{fi}$ | 100Arms               | 100Arms           | 100Arms           | 100Arms           | 100Arms           |
| Max. backup fuse   | 100A gG               | 100A gG           | 100A gG           | 100A gG           | 100A gG           |
| Leakage current $I_{PE}$                                     | None                  | None              | None              | None              | None              |
| Response time [L-N] $t_A$                                    | $\leq 100ns$          | $\leq 100ns$      | $\leq 100ns$      | $\leq 100ns$      | $\leq 100ns$      |
| Response time [N-PE] $t_A$                                   | $\leq 100ns$          | $\leq 100ns$      | $\leq 100ns$      | $\leq 100ns$      | $\leq 100ns$      |
| Operating temperature range $T_u$                            | -40°C-80°C            | -40°C-80°C        | -40°C-80°C        | -40°C-80°C        | -40°C-80°C        |
| Operating state/fault indication                             | green/red             | green/red         | green/red         | green/red         | green/red         |
| Cross-section area (Min.)                                    | 4 mm <sup>2</sup>     | 4 mm <sup>2</sup> | 4 mm <sup>2</sup> | 4 mm <sup>2</sup> | 4 mm <sup>2</sup> |
| Cross-section area (Max.)                                    | 35mm <sup>2</sup>     | 35mm <sup>2</sup> | 35mm <sup>2</sup> | 35mm <sup>2</sup> | 35mm <sup>2</sup> |
| For mounting on  | 35mm Din rail         |                   |                   |                   |                   |
| Enclosure material   | Thermoplastic UL94-V0 |                   |                   |                   |                   |
| Degree of protection   | IP20                  | IP20              | IP20              | IP20              | IP20              |
| Order Code   | B17510                | B17522            | B17534            | B17546            | B17558            |
| Order Code (With remote signaling)                           | B17511                | B17523            | B17535            | B17547            | B17559            |