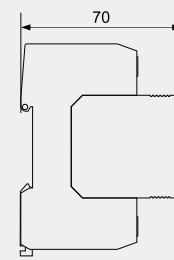
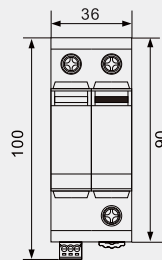
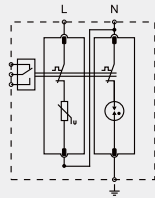


## BR-40 1+1

### Type 2 Surge Arrester



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

|   | BR-40 150 1+1         | BR-40 275 1+1     | BR-40 320 1+1     | BR-40 385 1+1     | BR-40 440 1+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 <sub>c</sub>         | 150V                  | 275V              | 320V              | 385V              | 440V              |
| Max. continuous operating a.c. voltage [N-PE] U <sub>c</sub>        | 255V                  | 255V              | 255V              | 255V              | 255V              |
| Nominal discharge current (8/20μs) I <sub>n</sub>                   | 20kA                  | 20kA              | 20kA              | 20kA              | 20kA              |
| Max. discharge current (8/20μs) I <sub>max</sub>                    | 40kA                  | 40kA              | 40kA              | 40kA              | 40kA              |
| Voltage protection level [L-N] U <sub>p</sub>                       | ≤0.8kV                | ≤1.3kV            | ≤1.5kV            | ≤1.8kV            | ≤2.0kV            |
| Voltage protection level 5kA [L-N] U <sub>p</sub>                   | ≤0.6kV                | ≤1kV              | ≤1.2kV            | ≤1.4kV            | ≤1.6kV            |
| Voltage protection level [N-PE] U <sub>p</sub>                      | ≤1.5kV                | ≤1.5kV            | ≤1.5kV            | ≤1.5kV            | ≤1.5kV            |
| Short-circuit withstand capacity I <sub>SCCR</sub>                  | 25kA                  | 25kA              | 25kA              | 25kA              | 25kA              |
| Temporary overvoltage TOV-withstand [L-N] U <sub>T</sub>            | 175V/5sec.            | 335V/5sec.        | 350V/5sec.        | 550V/5sec.        | 580V/5sec.        |
| Temporary overvoltage TOV-safe failure [L-N] U <sub>T</sub>         | 250V/120min.          | 440V/120min.      | 550V/120min.      | 660V/120min.      | 770V/120min.      |
| Temporary overvoltage TOV-withstand [N-PE] U <sub>T</sub>           | 1200V/200ms           | 1200V/200ms       | 1200V/200ms       | 1200V/200ms       | 1200V/200ms       |
| Follow current extinguishing capability a.c. [N-PE] I <sub>fi</sub> | 100Arms               | 100Arms           | 100Arms           | 100Arms           | 100Arms           |
| Max. backup fuse  | 125A gG               | 125A gG           | 125A gG           | 125A gG           | 125A gG           |
| Leakage current I <sub>PE</sub>                                     | <0.1mA                | <0.1mA            | <0.1mA            | <0.1mA            | <0.1mA            |
| Response time [L-N] t <sub>A</sub>                                  | ≤25ns                 | ≤25ns             | ≤25ns             | ≤25ns             | ≤25ns             |
| Response time [N-PE] t <sub>A</sub>                                 | ≤100ns                | ≤100ns            | ≤100ns            | ≤100ns            | ≤100ns            |
| Operating temperature range T <sub>u</sub>                          | -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  | B18251                | B18253            | B18255            | B18257            | B18370            |
| Order Code (With remote signaling)                                  | B18252                | B18254            | B18256            | B18258            | B18371            |