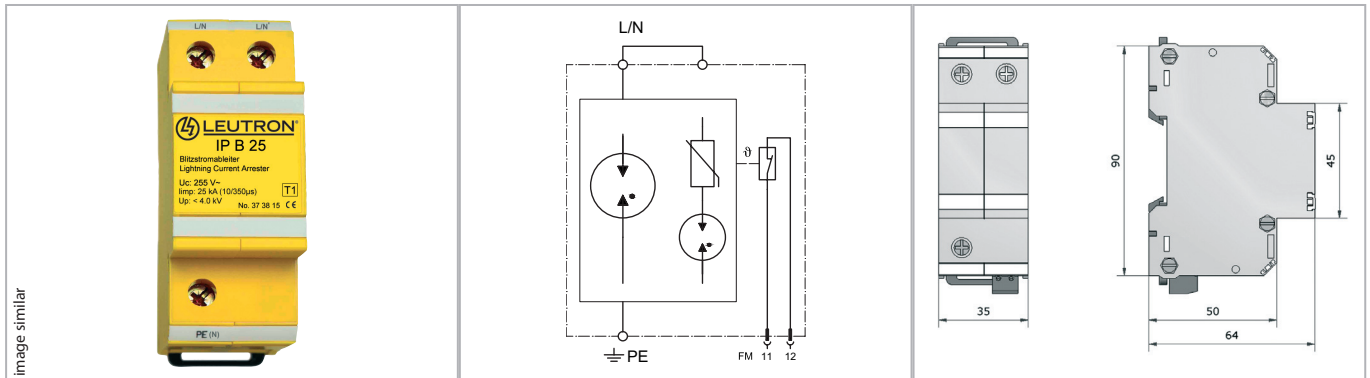


# Datasheet

## Surge protection of power supply

### Lightning current arrester type 1 for AC power supplies / IsoPro



Single pole SPD for use as equipotential bonding lightning surge protection in different kind of power net systems. Lightning current discharge arrester (class I) with rare-gas-filled spark gap for the use in single-phase TT and TN systems. Applicable at the boundaries LPZ 0A - 1 and higher.

- Test standard: IEC 61643-11 / EN 61643-11
- Rare-gas-filled spark gap, hermetically sealed
- No leakage currents, thus, allowing installation upstream of power meters
- High insulation resistance
- All-in-one protection unit, ready for connection
- Mounting on 35 mm DIN rail (EN 60715)
- Degree of protection according to IEC EN 60529: IP 20
- Inflammability class according to UL 94 V0
- EAC certification
- Remote signalling contact: break contact

| Technical Data                                                      | IP B 25/FM         |                                                         |
|---------------------------------------------------------------------|--------------------|---------------------------------------------------------|
| IEC category                                                        |                    | Type 1                                                  |
| Nominal voltage AC                                                  | UN                 | 230/400 V~                                              |
| Max. continuous operating voltage AC (50/60 Hz)                     | Uc                 | 255 V~                                                  |
| Insulation resistance                                               | Risol              | > 10 GΩ                                                 |
| Protection level at 100% lightn. imp. sparkover voltage (1.2/50 μs) | Up                 | ≤ 4,0 kV                                                |
| Protection level                                                    | Up                 | ≤ 4,0 kV                                                |
| Response time                                                       | tA                 | < 50 ns                                                 |
| Lightning impulse current (10/350 μs) total                         | I <sub>total</sub> | 25 kA                                                   |
| Lightning impulse current (10/350 μs) L-N/N-PE/L-PEN                | I <sub>imp</sub>   | 25 / - / - (L,N-PE) kA                                  |
| Short-circuit withstand capability at max. back-up fuse             | I <sub>k</sub>     | 50 kA <sub>eff</sub>                                    |
| Max. acceptable back-up fuse F2 (spur wiring)                       |                    | 160 A gG                                                |
| Max. acceptable back-up fuse F1 (serial wiring)                     |                    | 125 A gG                                                |
| Operating temperature range                                         | TU                 | -40 - +80 °C                                            |
| Max. conductor cross section                                        |                    | 50 mm <sup>2</sup> stranded/35 mm <sup>2</sup> flexible |
| Recommended conductor cross section                                 |                    | 25 mm <sup>2</sup>                                      |
| Max. connection torque for terminals                                |                    | 4,0 Nm                                                  |
| Enclosure material / colour                                         |                    | polycarbonate (halogen-free) UL 94-V0 / yellow          |
| Degree of protection (IEC EN 60529)                                 |                    | IP 20                                                   |
| Mounting on                                                         |                    | 35 mm DIN rail (DIN EN 60715)                           |
| Power supply system                                                 |                    | between L and N                                         |

### Order Data

|             |            |
|-------------|------------|
| Product     | IP B 25/FM |
| Article-No. | 55 05 00   |