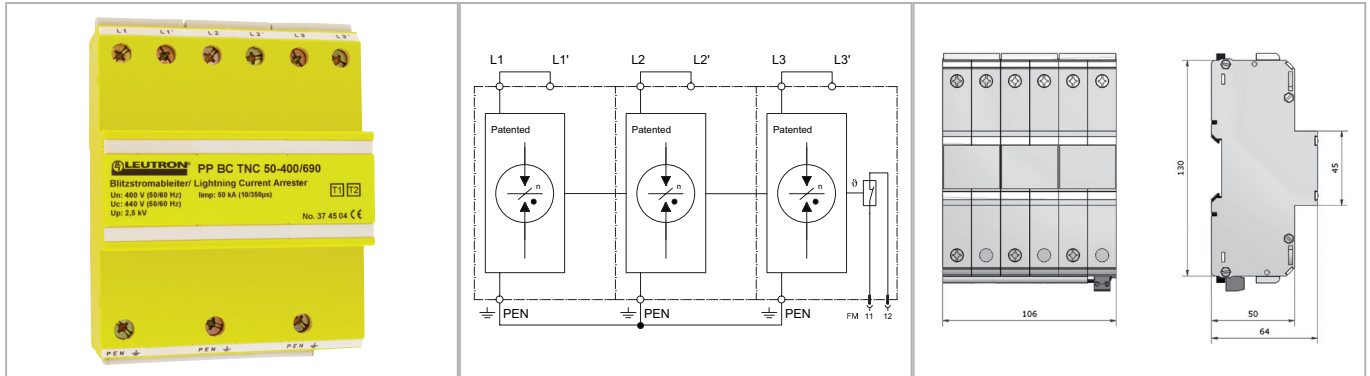


# Datasheet

## Surge protection of power supply

### Combined arrester type 1 + 2 for AC power supplies / PowerPro



For lightning equipotential bonding in 400 V TN-C systems e. g. Wind generator protection

- Test standard: IEC 61643-11 / EN 61643-11
- Three pole combined arrester
- For 440/690 V power system voltages
- Low protection level
- Remote signalling contact: break contact
- EAC certification

| Technical Data   |        | PP BC TNC 50-400/690/FM                               |
|--|--------|---|
| IEC category   |        | Type 1 + 2 / class I+II                               |
| Nominal voltage AC   | UN     | 400/690 V~  |
| Max. continuous operating voltage AC (50/60Hz)                     | Uc     | 440 V~  |
| Insulation resistance  | Risol  | > 10 GΩ   |
| Protection level at 100% lightn. imp. sparkover voltage (1.2/50µs) | Up     | ≤ 2.5 kV  |
| Protection level   | Up     | ≤ 2.5 kV  |
| Response time  | tA     | 100 ns  |
| Lightning impulse current (10/350µs) total                         | Itotal | 150 kA  |
| Lightning impulse current (10/350µs) L-N/N-PE/L-PEN                | limp   | - / - / 50 kA   |
| Follow-on current extinguishing capability at Uc (50/60 Hz)        | Ifi    | 10 kA   |
| Short-circuit withstand capability at max. back-up fuse            | Ik     | 50 kAeff  |
| Max. acceptable back-up fuse F2 (spur wiring)                      |        | 250 A gG  |
| Max. acceptable back-up fuse F1 (serial wiring)                    |        | 125 A gG  |
| Operating temperature range  | TU     | -40 - +80 °C  |
| Max. conductor cross section                                       |        | 50mm <sup>2</sup> stranded/35mm <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        |
| FM contact / contact type  |        | break contact   |
| Switching capacity FM  |        | 250 V/2 A   |

| Order Data  |                        |
|-------------|------------------------|
| Product     | PP BCTNC 50-400/690/FM |
| Article-No. | 37 45 05               |