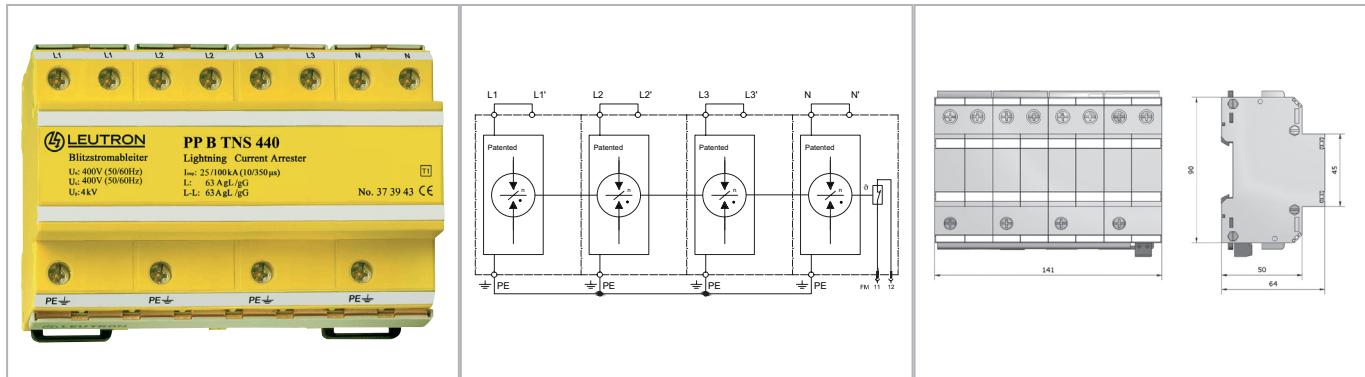


Datasheet

Surge protection of power supply

Lightning current arrester Type 1 for AC power supplies / PowerPro



Multi-pole lightning current arrester type 1 (class I) for 3-phase TN-S systems.
The arresters can be installed at the transition OA to 1 according to the lightning protection zones concept. The SPDs of the series PowerPro B feature a high thermal resistance and an outstanding discharge capability for lightning impulse currents of 50 kA (10/350 µs) per pole. Therefore, they can be applied according to DIN EN 62305 (VDE 0185-305).

- Test standard: IEC 61643-11 / EN 61643-11
- Discharge capacity up to 100 kA (10/350 µs)
- High insulation resistance
- High TOV resistance
- High quenching of follow-on short-circuit currents
- Operates independently of atmospheric air pressure and ambient humidity
- Degree of protection according to IEC EN 60529: IP 20
- Mounting on 35 mm DIN rail (EN 60715)
- EAC certification
- Remote signalling contact: break contact

Technical Data

PP B TNS 440/FM

IEC category	Type 1
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 ≤ 4,0 kV
Protection level	Up ≤ 4,0 kV
Response time	tA <50 ns
Lightning impulse current (10/350µs) total	Itotal 100 kA
Lightning impulse current (10/350µs) L-N/N-PE/L-PEN	limp 25 / - / - kA
Follow-on current extinguishing capability at Uc (50/60 Hz)	Ifi 0,75 kA
Short-circuit withstand capability at max. back-up fuse	Ik 50 kAeff
Max. acceptable back-up fuse F2 (spur wiring)	63 A gG
Max. acceptable back-up fuse F1 (serial wiring)	63 A gG
Operating temperature range	TU -40 - +80 °C
Max. conductor cross section	50mm ² stranded/35mm ² flexible
Recommended conductor cross section	25 mm ²
Max. connection torque for terminals	4,0 Nm
Enclosure material / colour	polycarbonate (halogen-free) UL 94-V0 / yellow
Switching capacity FM	250 V/2 A
Max. conductor cross section FM	1,5 mm ²

Order Data

Product	PP B TNS 440/FM
Article-No.	37 39 44