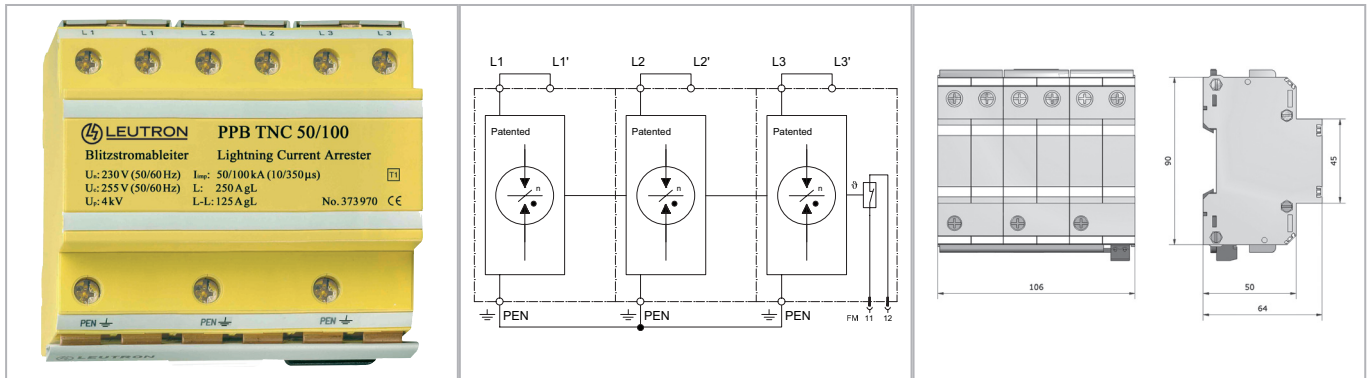


# Datasheet

## Surge protection of power supply

### Lightning current arrester Type 1 for AC power supplies / PowerPro



**Lightning current discharge arrester (class I) with rare-gas-filled spark gap for the use in three-phase TNC systems. Applicable at the boundaries LPZ OA - 1 and higher**

- Test standard: IEC 61643-11 / EN 61643-11
- High quenching of follow-on short-circuit currents
- High TOV resistance
- No leakage currents, thus, allowing installation upstream of power meters
- 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 TNC 50/100/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	Itotal	100 kA
Lightning impulse current (10/350 μs) L-N/N-PE/L-PEN	Iimp	- / - / 50 kA
Follow-on current extinguishing capability at Uc (50/60 Hz)	I <sub>fi</sub>	4 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)		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
Switching capacity FM		250 V/2 A
Max. conductor cross section FM		1,5 mm <sup>2</sup>

### Order Data

Product	PP B TNC 50/100/FM
Article-No.	37 39 72