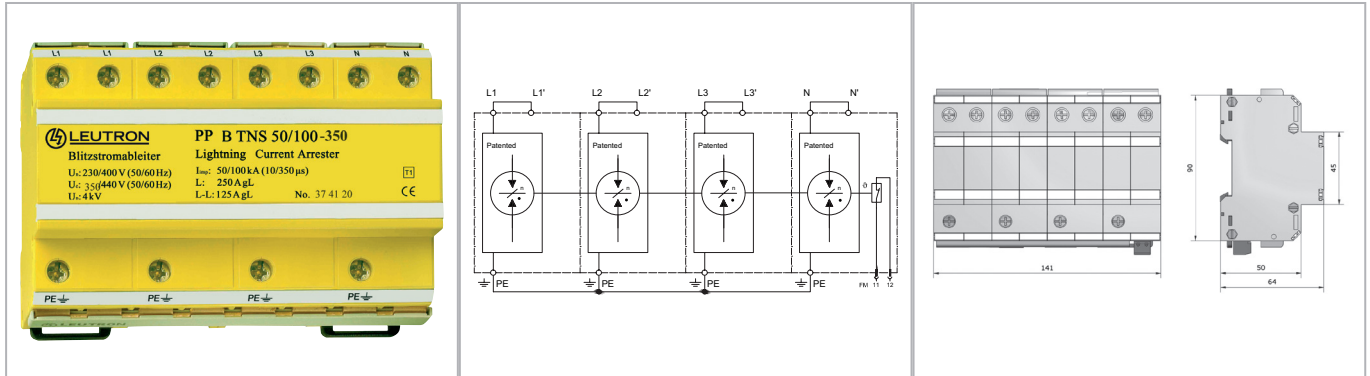


## Surge protection of power supply

### 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  $\mu$ s) 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  $\mu$ s)
- 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 50/100/FM-350
IEC category		Type 1
Nominal voltage AC	UN	230/400 V~
Max. continuous operating voltage AC (50/60Hz)	Uc	350 V~
Insulation resistance	Risol	>10 G $\Omega$
Protection level at 100% lightn. imp. sparkover voltage (1.2/50 $\mu$ s)	Up	$\leq$ 4,0 kV
Protection level	Up	$\leq$ 4,0 kV
Response time	tA	<50 ns
Lightning impulse current (10/350 $\mu$ s) total	I <sub>total</sub>	100 kA
Lightning impulse current (10/350 $\mu$ s) L-N/N-PE/L-PEN	I <sub>imp</sub>	50 / - / - kA
Follow-on current extinguishing capability at U <sub>c</sub> (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
Min. conductor cross section at terminals		4mm <sup>2</sup> solid/ 2,5mm <sup>2</sup> flexible
Switching capacity FM		250 V/2 A

### Order Data

Product	PP BTNS 50/100/FM-350
Article-No.	37 41 25