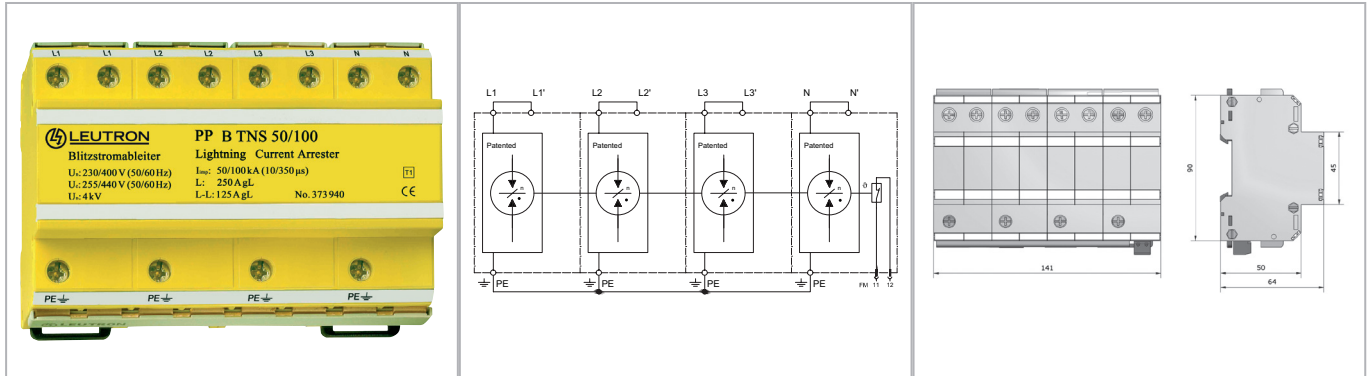


Surge protection of power supply

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 μ 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 μ 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
- Inflammability class according to UL 94 V0

Technical Data		PP B TNS 50/100/FM
IEC category		Type 1
Nominal voltage AC	UN	230/400 V~
Max. continuous operating voltage AC (50/60Hz)	Uc	255 V~
Insulation resistance	Risol	>10 G Ω
Protection level at 100% lightn. imp. sparkover voltage (1.2/50 μ s)	Up	\leq 4,0 kV
Protection level	Up	\leq 4,0 kV
Response time	tA	<50 ns
Lightning impulse current (10/350 μ s) total	Itotal	100 kA
Lightning impulse current (10/350 μ s) L-N/N-PE/L-PEN	Iimp	50 / - / - kA
Follow-on current extinguishing capability at Uc (50/60 Hz)	I _{fi}	4 kA
Short-circuit withstand capability at max. back-up fuse	I _k	50 kA _{eff}
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 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 BTNS 50/100/FM
Article-No.	37 39 42