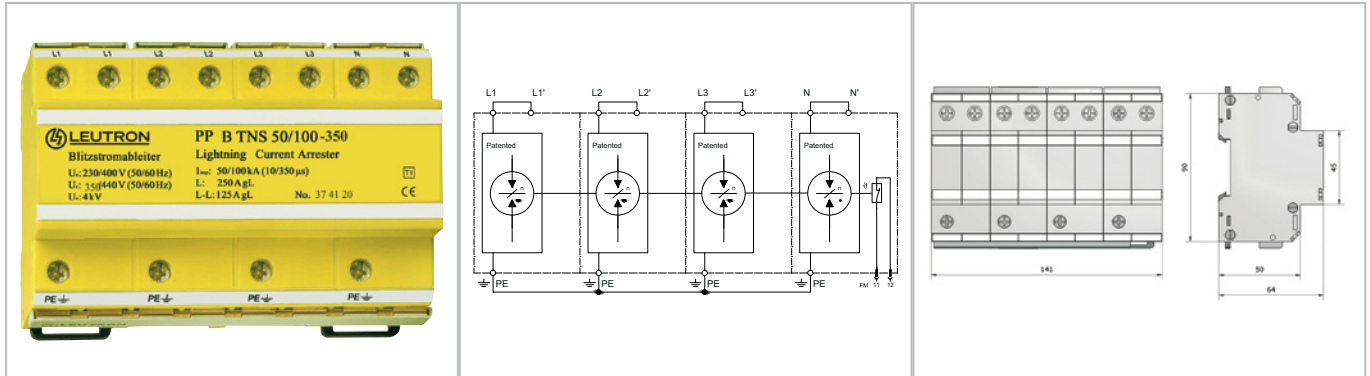


PowerPro B TN-S Systems



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).

- 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

Technical Data	PP B TNS 50/100-350	
Nominal alternating voltage	UN	230/400 V~
Max. continuous operating voltage AC	Uc	350 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 at limp (L-PE)	Up	\leq 4,0 kV
Response time	tA	<50 ns
Lightning impulse current (10/350) [L1+L2+L3+N-PE]	Itotal	100 kA
Lightning impulse current (10/350 μ s) (L,N-PE)	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 fuse or back-up fuse F2 (spur wiring)		250 A gL/gG
Max. acceptable fuse or back-up fuse F1 (V-wiring)		125 A gL/gG
Operating temperature range	TU	-40 - +80 °C
Max. conductor cross section		stranded 50/fine stranded 35 mm ²
Recommended conductor cross section		25 mm ²
Min. conductor cross section at terminals		16
Max. connection torque for terminals		4,5 Nm
Enclosure material / colour		polycarbonate (halogen-free) UL 94-V0 / yellow
Degree of protection (IEC EN 60529)		IP 20
Mounting on		35 mm DIN rail (DIN EN 50 022)

Order Data	
Product	PP BTNS 50/100-350
Article-No.	37 41 20