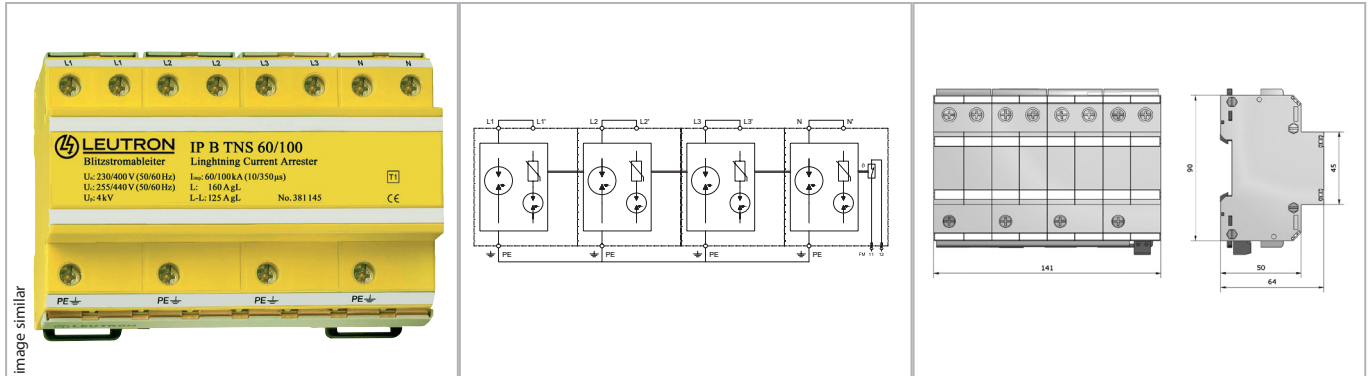


Datasheet

Surge protection of power supply

Lightning current arrester type 1 for AC power supplies / IsoPro



Multi-pole lightning current arrester for protection of low-voltage consumers' installations in business and residential areas against surges caused by lightning or switching actions in the network. Multi-pole lightning current arrester type 1 (class I) for 3-phase TN-S systems.

- Test standard: IEC 61643-11 / EN 61643-11
- Rare-gas-filled spark gap, hermetically sealed
- No leakage currents, thus, allowing installation upstream of power meters
- Operates independently of atmospheric air pressure and ambient humidity
- High insulation resistance
- Discharge capacity up to 100 kA (10/350 µs)
- With remote signalling contact (FM)
- All-in-one protection unit, ready for connection
- Mounting on 35 mm DIN rail (EN 60715)
- EAC certification
- Degree of protection according to IEC EN 60529: IP 20
- Inflammability class according to UL 94 V0

Technical Data		IP B TNS 60/100/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% lightning 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	60 / 60 / - kA
Short-circuit withstand capability at max. back-up fuse	I _k	50 kA _{eff}
Max. acceptable back-up fuse F2 (spur wiring)		160 A gG
Max. acceptable back-up fuse F1 (serial wiring)		125 A 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
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
Max. locking torque FM terminals		0,25 Nm

Order Data

Product	IP B TNS 60/100/FM
Article-No.	38 11 46