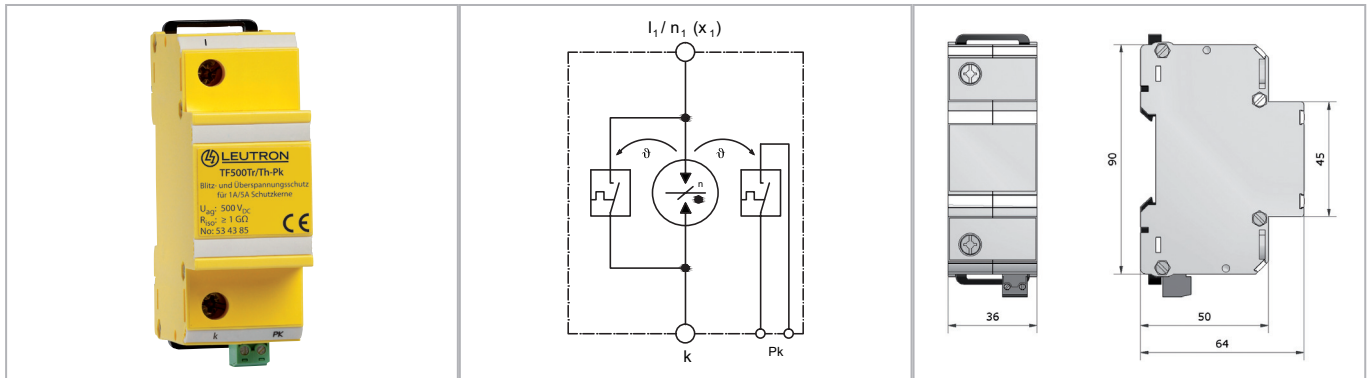


Datasheet

Rare-gas-filled insulation spark gaps

DIN rail mounting



Protects measuring transformers; lightning and surge voltage protector for 1A respectively 5A cores in current transformers.

- Very high impulse and AC current resistivity
- No blow-out vents, thus, not requiring any safety clearance to other installations
- High insulation resistance Risol: $\geq 1 \text{ G}\Omega$
- Very long service life
- Lightning impulse current discharge capacity 100 kA (10/350 μs)
- Remote signal contact (PK): closer
- EAC certification

Technical Data	TF 500Tr/Th-Pk	
DC spark-over voltage (100 V/s)	U _{ag}	500 $\pm 20\%$ V=
AC spark-over voltage(100 V/s) (50/60Hz)	U _{aw}	350 $\pm 20\%$ V~
Impulse sparkover voltage typ. at 1 kV/ μs	U _{as}	typ. 1000 / max. 1300 V=
Impulse sparkover voltage at 1 kV/ns (100 MHz)	U _{as}	typ. 2800 / max. 3000 V
Capacitance	C	$\leq 16 \text{ pF}$
Insulation resistance at 10V	Ris	$\geq 1 \text{ G}\Omega$
Nominal discharge current (8/20 μs)	I _n	10x 100 kA
Lightning impulse current (10/350) (I _{imp}) + long-time current 200 A/0.5 s/100 As	I _{peak} / Q / W/R	1x 100 kA / 50 As / 2500 kJ/ Ω
Lightning impulse current I _{imp} (10/45 μs) + half-wave 1.6 kA (DIN 48810)	I _{peak} / Q / W/R	20x 60 kA / 10 As / 100 kJ/ Ω
5x Nominal alternating discharge current at 50 Hz, 1 s, 3 min pause	I _{wn}	100 A/s
Operating temperature range	TU	-40 - +75 °C
Max. conductor cross section		50 mm ² stranded/35 mm ² flexible
Recommended conductor cross section		25 mm ²
Max. connection torque for terminals		4,0 Nm
Degree of protection (IEC EN 60529)		IP 20
Enclosure material / colour		polycarbonate (halogen-free) UL 94-V0 / yellow
Mounting on		35 mm DIN rail (DIN EN 60715)

Order Data

Product	TF 500Tr/Th-Pk
Article-No.	53 43 85