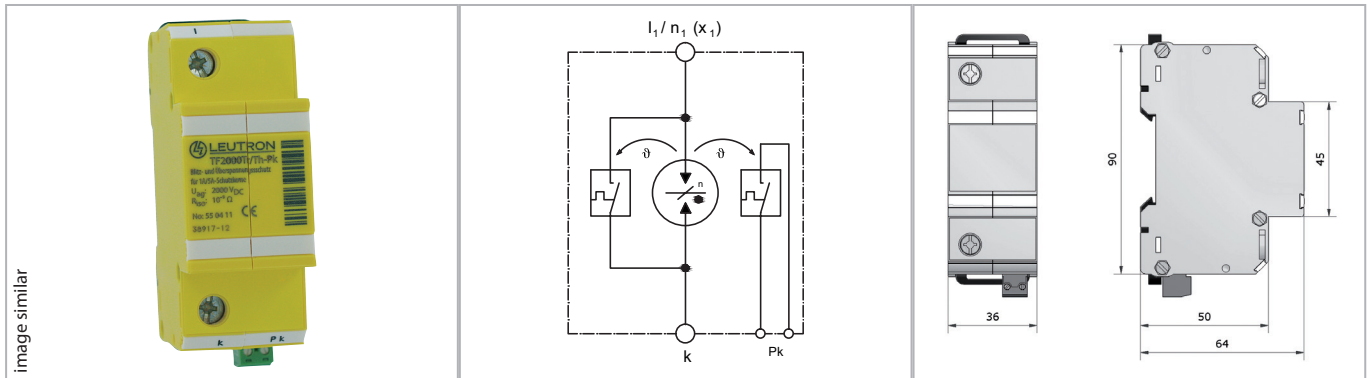


# Datasheet

## 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  $R_{isol} \geq 1 \text{ G}\Omega$
- Very long service life
- Lightning impulse current discharge capacity 60 kA (10/350  $\mu\text{s}$ )
- Remote signal contact (PK): closer
- EAC certification

Technical Data	TF 2000Tr/Th-Pk	
DC spark-over voltage (100 V/s)	U <sub>ag</sub>	2000 (-10%/+20%) V=
AC spark-over voltage(100 V/s) (50/60Hz)	U <sub>aw</sub>	1414 (-10%/+20%) V~
Impulse sparkover voltage typ. at 1 kV/ $\mu\text{s}$	U <sub>as</sub>	< 3.000 V=
Capacitance	C	$\leq 16 \text{ pF}$
Insulation resistance at 10V	R <sub>is</sub>	$\geq 1 \text{ G}\Omega$
Nominal discharge current (8/20 $\mu\text{s}$ )	I <sub>n</sub>	10 x 60 kA
Lightning impulse current (10/350 $\mu\text{s}$ ) (limp) + long-time current 200 A/0.5 s/100 As	I <sub>peak</sub> / Q / W/R	1x 60 kA / 30 As / 900 kJ/ $\Omega$
Lightning impulse current limp (10/45 $\mu\text{s}$ ) + half-wave 1.6 kA (DIN 48810)	I <sub>peak</sub> / Q / W/R	20x 60 kA / 10 As / 100 kJ/ $\Omega$
5x Nominal alternating discharge current at 50 Hz, 1 s, 3 min pause	I <sub>wn</sub>	100 A/s
Operating temperature range	TU	-40 - +75 °C
Recommended conductor cross section		25 mm <sup>2</sup>
Max. conductor cross section		50 mm <sup>2</sup> stranded/35 mm <sup>2</sup> flexible
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)
Switching capacity Pk		230 V/1,6 A
Max. conductor cross section Pk		1,5 mm <sup>2</sup>

### Order Data

Product	TF 2000Tr/Th-Pk
Article-No.	55 04 11