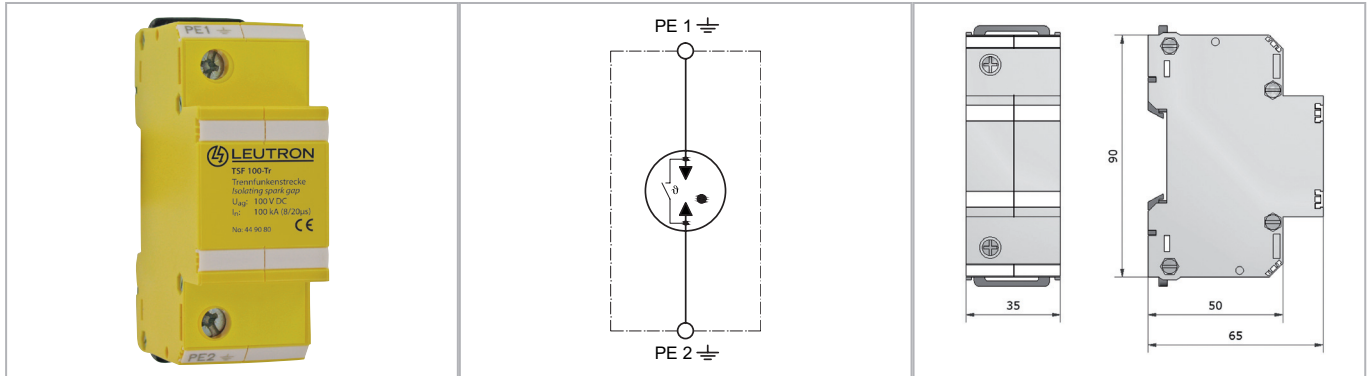


## Rare-gas-filled insulation spark gaps

### DIN rail mounting



A rare-gas-filled spark gap for the lightning protection equipotential bonding, the insulation of electrically separated parts and the bridging of insulating flanges of gas pipelines.

- AC spark-over voltage : 70 V
- DC spark-over voltage : 100 V
- DC impulse spark-over voltage (1kV/μs): 650 V
- Light. imp. current resistance (10/350μs): 100 kA
- Mounting on 35 mm DIN rail (EN 60715)
- Test standard DIN EN 62561-3:2018-02
- Degree of protection according to IEC EN 60529: IP 20
- EAC certification

Technical Data		TSF 100-Tr
IEC category		Class H
Nominal DC sparkover voltage at 100 V/s	U <sub>agN</sub>	100 ±20% V=
Nominal AC sparkover voltage (50 Hz)	U <sub>aw</sub>	70 ±20% V
Typical impulse sparkover voltage	U <sub>as</sub>	650 V
Max. impulse sparkover voltage	U <sub>as</sub>	950 V
Lightning impulse current (10/350 μs)	I <sub>imp</sub>	75 kA
Lightning impulse current (10/350 μs) total	I <sub>total</sub>	100 kA
Nominal impulse discharge current (10 x 8/20 μs)	I <sub>n</sub>	100 kA
5x Nominal alternating discharge current at 50 Hz, 1 s, 3 min pause	I <sub>wn</sub>	100/1 A/s
Nominal alternating discharge current (50 Hz)		200/0,5 A/s
Alternating current critical load (50 Hz) (1x 0.3 s)	I <sub>wgr</sub>	4.000/0,25 Aeff/s
Spark-gap extinguishing conditions	V <sub>ex</sub>	<70 V / < 20 A
Insulation resistance at 10 V, 100 V		≥ 1 GΩ
Self-capacitance at 1 kHz		6 pF
Test category/climatic category		DIN IEC 60068-1 / 40/90/21
Relative humidity		10%...95% rh
Operating temperature range	TU	-40 - +80 °C
Max. conductor cross section		50 mm <sup>2</sup> stranded/35 mm <sup>2</sup> flexible
Recommended conductor cross section		25 mm <sup>2</sup>
Mounting on		35 mm DIN rail (DIN EN 60715 )

### Order Data

Product	TSF 100-Tr
Article-No.	44 90 80