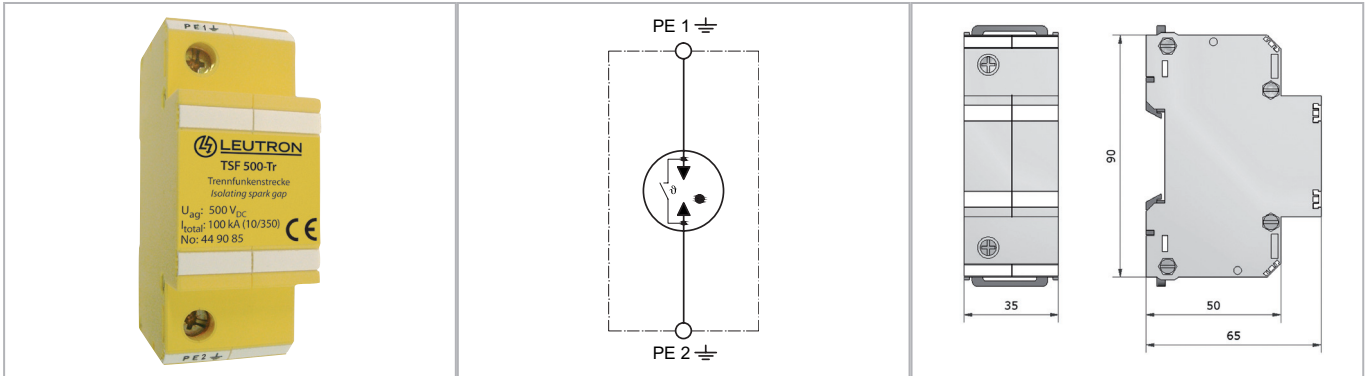


Datasheet

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 : 350 V
- DC spark-over voltage : 500 V
- DC impulse spark-over voltage (1kV/μs): 950 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 500-Tr
IEC category		Class H
Nominal DC sparkover voltage at 100 V/s	UagN	500 ±20% V=
Nominal AC sparkover voltage (50 Hz)	Uaw	350 ±20% V
Typical impulse sparkover voltage	Uas	950 V
Max. impulse sparkover voltage	Uas	1300 V
Lightning impulse current (10/350 μs)	Iimp	75 kA
Lightning impulse current (10/350 μs) total	Itotal	100 kA
Nominal impulse discharge current (10 x 8/20 μs)	In	100 kA
5x Nominal alternating discharge current at 50 Hz, 1 s, 3 min pause	Iwn	100/1 A/s
Nominal alternating discharge current (50 Hz)		200 / 0,5 A/s
Alternating current critical load (50 Hz) (1x 0.3s)	Iwgr	4.000 / 0,25 Aeff/s
Spark-gap extinguishing conditions	Vex	< 230 V / < 100 A
Insulation resistance at 10 V, 100 V		≥ 1 GΩ
Self-capacitance at 1 kHz		4 pF
Relative humidity		10%-95% rh
Operating temperature range	TU	-40 - +80 °C
Max. conductor cross section		50 mm ² stranded/35 mm ² flexible
Recommended conductor cross section		25 mm ²
Mounting on		35 mm DIN rail (EN 60715)
3x lightning impulse current (10/350 μs), long-duration current (CENELEC/BTTF 62-2)		75 kA / 38 As / 1,45 MJ / Ω + 150 A / 0,5 s / 75 As

Order Data

Product	TSF 500-Tr
Article-No.	44 90 85