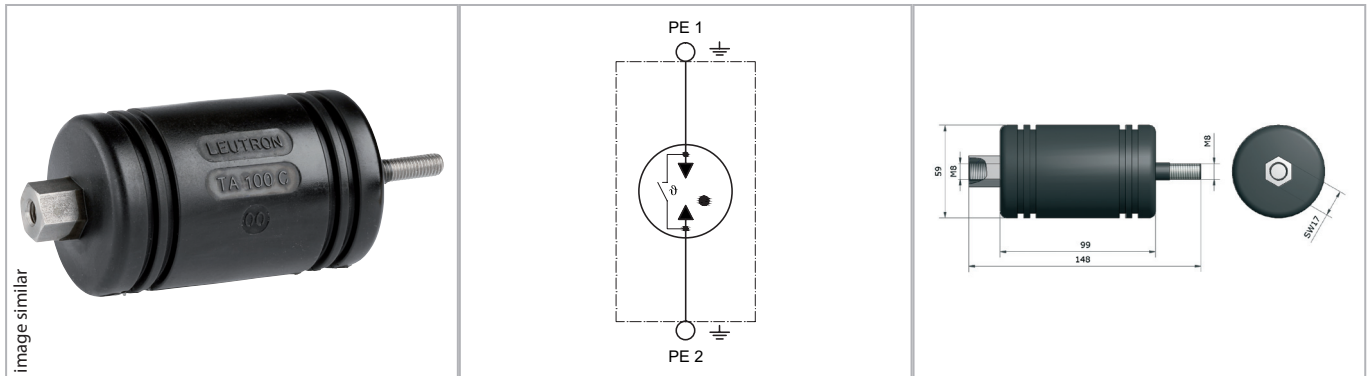


Rare-gas-filled insulation spark gaps

Flexible 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. The product is for outdoor use where a high level of protection against lightning and other climatic influences as well as mechanical stress is needed. Protection of power supply of dc.

- High-quality industrial ceramics
- Rare-gas filled, hermetically sealed
- Free from radioactive substances
- High discharge capacity up to 100 kA
- Highly reliable, robust and waterproof
- Extremely low sparkover voltage
- Stable performance, long service life
- Fail-safe characteristic
- Test standard DIN EN 62561-3:2018-02

Technical Data		TA 100 C
IEC category		Class H
Nominal DC sparkover voltage at 100 V/s	U _{agN}	100 ±20% V=
Nominal AC sparkover voltage (50 Hz)	U _{aw}	70 ±20% V
Typical impulse sparkover voltage	U _{as}	650 V
Max. impulse sparkover voltage	U _{as}	950 V
Lightning impulse current (10/350 μs) total	I _{total}	100 kA
Nominal impulse discharge current (10 x 8/20 μs)	I _n	100 kA
5x Nominal alternating discharge current at 50 Hz, 1 s, 3 min pause	I _{wn}	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 _{wgr}	4.000 / 0,25 Aeff/s
Spark-gap extinguishing conditions	V _{ex}	<70 V / <20 A
Insulation resistance at 10 V, 100 V		>1 GΩ
Self-capacitance at 1 kHz		9 pF
Test category/climatic category		DIN IEC 60068-1 / 40/90/21
Relative humidity		10%...95% rh
Degree of protection		IP 67
Operating temperature range	TU	-40 - + 80 °C
3x lightning impulse current (10/350 μs), long-duration current (CENELEC/BTTF 62-2)	I _{imp}	75 kA/38 As/1,45 MJ/Ω + 150 A/0,5 s/75 As
20x lightning impulse current (10/45 μs) half-wave (DIN 48810)		60 kA/ 10 As/ 0,1 MJ /Ω
Terminals		M8 bolt/nut (NIROSTA stainless steel)

Order Data

Product	TA 100 C
Article-No.	48 78 14