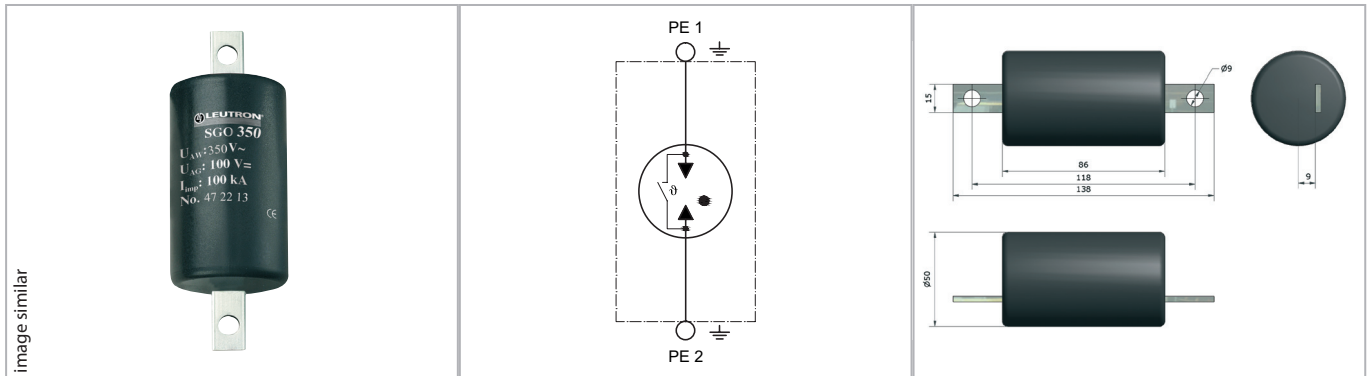


## Rare-gas-filled insulation spark gaps

### 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. Weather-resistant, moulded metal/ceramic insulating spark gap with terminal lugs for M8 screw connection. Waterproof moulded in polyurethan diecast. Protection of power supply of dc

- High-quality industrial ceramics
- Rare-gas filled, hermetically sealed
- Free from radioactive substances
- High lightning current discharge capacity of 100 kA (10/350  $\mu$ s) (class H)
- Extremely low sparkover voltage
- Highly reliable, robust and waterproof
- Fail-safe characteristic
- Stable performance, long service life
- Test standard DIN EN 62561-3:2018-02

Technical Data		SGO 350
IEC category		Class H
Nominal DC sparkover voltage at 100 V/s	U <sub>agN</sub>	500 $\pm$ 15% V=
Nominal AC sparkover voltage (50 Hz)	U <sub>aw</sub>	350 $\pm$ 15% V
Typical impulse sparkover voltage	U <sub>as</sub>	950 V
Max. impulse sparkover voltage	U <sub>as</sub>	1300 V
Lightning impulse current (10/350 $\mu$ s) total	I <sub>total</sub>	100 kA
Nominal impulse discharge current (10 x 8/20 $\mu$ s)	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 A <sub>eff</sub> /s
Spark-gap extinguishing conditions	V <sub>ex</sub>	< 230 V / < 100 A
Insulation resistance at 10 V, 100 V		> 1 G $\Omega$
Self-capacitance at 1 kHz		7 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
Net weight / pc		340 g
3x lightning impulse current (10/350 $\mu$ s), long-duration current (CENELEC/BTTF 62-2)	I <sub>imp</sub>	75 kA / 38 As / 1,45 MJ/ $\Omega$ + 150 A / 0,5 s / 75 As
20x lightning impulse current (10/45 $\mu$ s) half-wave (DIN 48810)		60 kA / 10 As / 0,1 MJ/ $\Omega$

### Order Data

Product	SGO 350
Article-No.	47 22 13