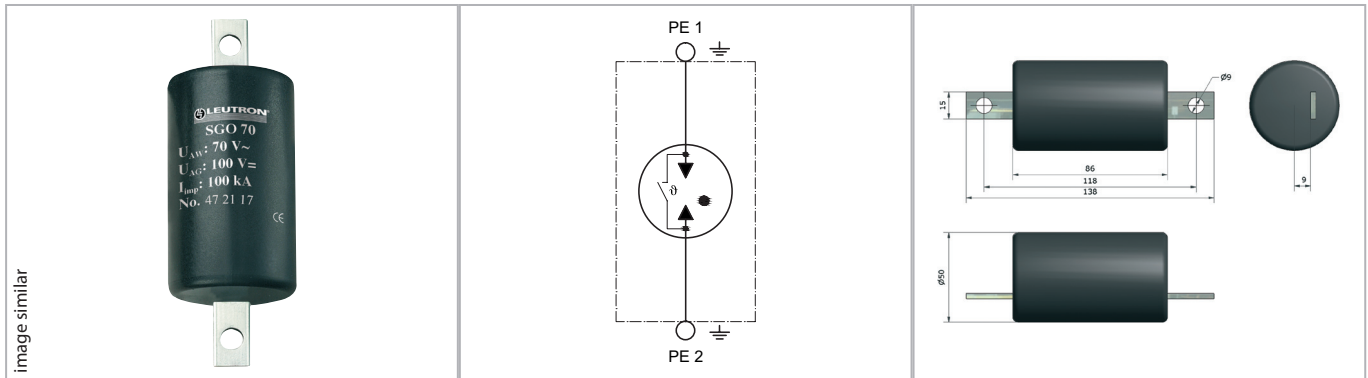


Rare-gas-filled insulation spark gaps

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 μs) (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 70 |
|---|-------------|---|
| IEC category | | Class H |
| Nominal DC sparkover voltage at 100 V/s | U_{agN} | $100 \pm 20\% \text{ V} =$ |
| Nominal AC sparkover voltage (50 Hz) | U_{aw} | $70 \pm 20\% \text{ V}$ |
| 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 |
| 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 |
| Nominal alternating discharge current (50 Hz) | | 200/0,5 A/s |
| Alternating current critical load (50 Hz) (1x 0.3s) | I_{wgr} | 4.000/0,25 Ae $_{eff}$ /s |
| Insulation resistance at 10 V, 100 V | | > 1 G Ω |
| Spark-gap extinguishing conditions | V_{ex} | < 70 V / < 20 A |
| 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 |
| Terminals | | Hole 8,5 mm copper, nickelplate |

Order Data

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|-------------|----------|
| Product | SGO 70 |
| Article-No. | 47 21 17 |