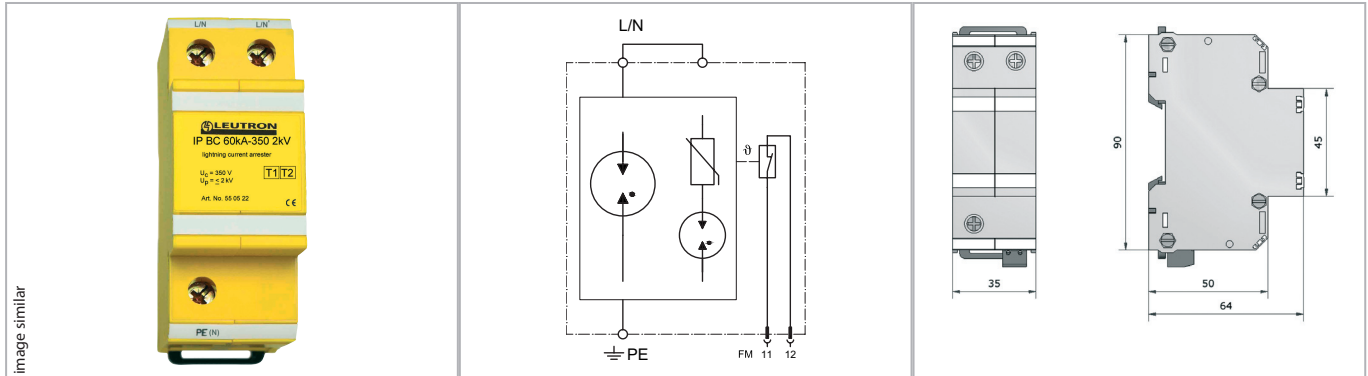


# Datasheet

## Surge protection of power supply

### Combined arrester type 1 + 2 for AC power supplies / IsoPro



Single pole lightning and transient (switching-) surge voltage arrester for the protection of low-voltage electrical distribution systems by industrial, commercial and private use. The arresters can be installed at the transition OA to 2 according to the lightning protection zones concept.

- Class I+II (T1+T2) Combined Arresters
- Test standard: IEC 61643-11 / EN 61643-11
- On the basis of hermetically sealed rare-gas-filled spark gaps
- Protection level  $\leq 2\text{ kV}$
- Remote signalling contact: break contact
- High insulation resistance
- No blow-out vents, thus, not requiring any safety clearance to other installations

Technical Data		IP BC 25/FM-350 2kV
IEC category		Type 1 + 2 / class I+II
Nominal voltage AC	UN	230/400 - 240/415 V~
Max. continuous operating voltage AC (50/60 Hz)	Uc	350 V~
Insulation resistance	Risol	>10 GΩ
Protection level at 100% lightning imp. sparkover voltage (1.2/50 μs)	Up	$\leq 2,0\text{ kV}$
Protection level	Up	$\leq 2,0\text{ kV}$
Response time	tA	<50 ns
Lightning impulse current (10/350 μs) total	I <sub>total</sub>	25 kA
Lightning impulse current (10/350 μs) L-N/N-PE/L-PEN	I <sub>imp</sub>	25 / - / - kA
Short-circuit withstand capability at max. back-up fuse	I <sub>k</sub>	50 kA <sub>eff</sub>
Max. acceptable back-up fuse F2 (spur wiring)		160 A gG
Max. acceptable back-up fuse F1 (serial wiring)		125 A gG
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>
Max. connection torque for terminals		4,0 Nm
Enclosure material / colour		polycarbonate (halogen-free) UL 94-V0 / yellow
FM contact / contact type		break contact
Switching capacity FM		250 V/2 A
Max. conductor cross section FM		1,5 mm <sup>2</sup>

### Order Data

Product	IP BC 25/FM-350 2kV
Article-No.	55 05 27