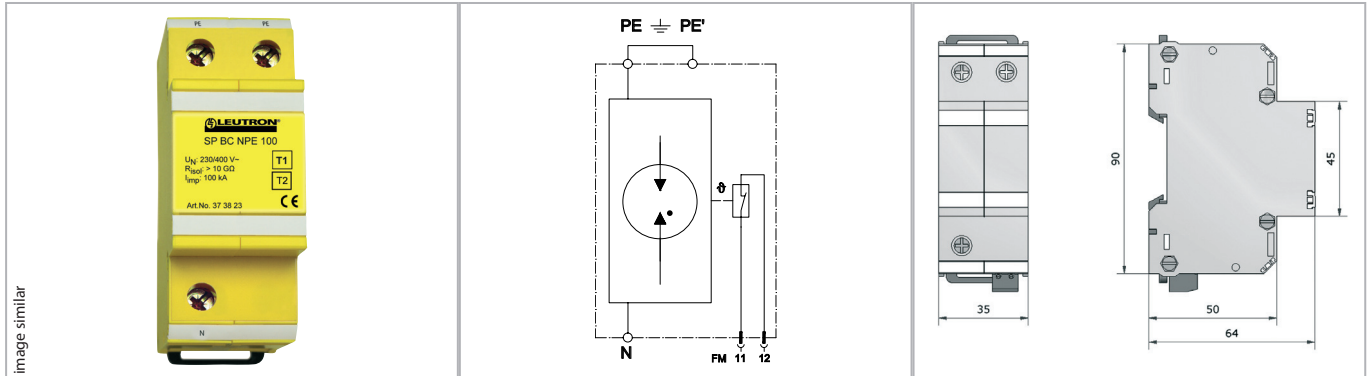


# Datasheet

## Surge protection of power supply

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



**NPE lightning current arrester class I+II, based on isolating spark gap technology. Single pole SPD for use as equipotential bonding lightning surge protection in different kind of power net systems.**

- No blow-out vents, thus, not requiring any safety clearance to other installations
- Discharge capacity up to 100 kA (10/350  $\mu$ s)
- High insulation resistance
- EAC certification

Technical Data		SP BC NPE 100/FM
IEC category		Type 1 + 2 / class I+II
Nominal voltage AC	UN	230/400 V~
Max. continuous operating voltage AC (50/60 Hz)	Uc	350 V~
Insulation resistance	Risol	> 10 G $\Omega$
Protection level at 100% lightn. imp. sparkover voltage (1.2/50 $\mu$ s)	Up	$\leq$ 1.5 kV
Protection level	Up	$\leq$ 1.5 kV
Response time	tA	< 50 ns
Nominal discharge current (8/20 $\mu$ s) N-PE	In	100 kA
Lightning impulse current (10/350 $\mu$ s) N-PE	Iimp	100 kA
Short-circuit withstand capability at max. back-up fuse	I <sub>k</sub>	50 kA <sub>eff</sub>
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
Degree of protection (IEC EN 60529)		IP 20
Enclosure material / colour		polycarbonate (halogen-free) UL 94-V0 / yellow
Mounting on		35 mm DIN rail (DIN EN 60715)
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	SP BC NPE 100/FM
Article-No.	37 38 24