

## Primary protection ED150-275

B, C and D class in one device.



This SPD is designed to protect, against direct and indirect effects of lightning, the low voltage network of an installation. The ED150 is particularly useful where the risk of heavy surge current or even direct strike is high. This product is designed to withstand a 25 kA 10/350 $\mu$ s lightning impulse. What's unique is the very low residual voltage level (<800V at 15kA 10/350 $\mu$ s). This means that it's normally not necessary with more SPD's after this. This SPD replaces all stages.

The SPD has a 2 level thermal disconnection mechanism as well as fault indicator and a switch for remote signalisation. This means you have a redundant SPD. When the fault alarm indicates, you still has approx. half the protection left and the time to replace it without being unprotected.

### Installation

ED150-275 shall be installed at the entrance in parallel after the main fuses.

- If they are installed as the first SPD, it's recommended to install them in a metal enclosure.
- The SPD shall be installed in parallel with the network between the phases and earth. This is also necessary for the neutral in TN-S system. If they are to be installed in a TT network they are installed between phases and neutral.

ED150-275 fulfils the standards:

IEC 61643-11 (International), UL 1449-ed2 (USA) and VDE 0675-6 (Germany).

Technical data	ED150-	150	275	320
Nominal voltage $U_N$		120V	230V	230V
Max. Continuous operating Voltage $U_C$		150V	275V	320V
Max current (without prefuse)		250A	250A	250A
Nominal discharge current (8/20 $\mu$ s-15 times) $I_N$		70kA	70kA	70kA
Max discharge current (8/20 $\mu$ s) $I_{MAX}$		150kA	150kA	150kA
Max.lightning current (10/350 $\mu$ s) $I_{IMP}$		25kA	25kA	25kA
Leakage current $I_C$ (at $U_C$ )		<2mA	<2mA	<2mA
Reaction time		<25ns	<25ns	<25ns
Protection level/ residual voltage $U_p$ (at 15kA, 10/350 $\mu$ s)		500V	<800V	<900V
Approvals		UL1449(2)	UL1449(2)	UL1449(2)
Operating Temperature		-40/+80°C	-40/+80°C	-40/+80°C
Connection		2,5-50mm <sup>2</sup>	2,5-50mm <sup>2</sup>	2,5-50mm <sup>2</sup>

