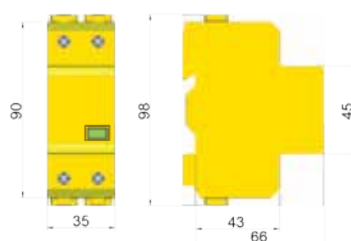


# Surge Protective Devices: ZOTUPGAP



# I 100 N-PE

**I 100 N-PE is a voltage switching SPD providing a single mode of protection, typically installed in TT-systems between neutral conductor N and protective earth PE, where connection type CT2 (1+1 or 3+1) is required according to HD 60364-5-534, e.g. in the Main Distribution Board (MDB), with the following features and benefits:**

- **Impulse test classification: Test class I and II according to IEC 61643-11 Ed. 1 (2011-03) and Type 1 and 2 according to EN 61643-11 (2012-10);**
- I 100 N-PE is a Gas Discharge Tube (GDT) based SPD, for the protection of low voltage installations and equipment against direct and indirect lightning effects;
- Impulse discharge current of 100 kA 10/350  $\mu$ s;
- Nominal discharge current of 100 kA 8/20  $\mu$ s;
- The special housing is designed for "Pollution Degree 3";
- To be combined with IA 25 or L 25/100 230 ff.

Model I 100 N-PE

CODE		208 300
Nominal ac system voltage	$U_N$	230 V ac
Modes of protection (number of poles)		1 (N-PE)
Max Continuous Operating Voltage	$U_c$	255 V ac
Test Class according to IEC 61643-11 Ed.1 (2011-03)		I and II
Type according to EN 61643-11 (2012-10)		T1 and T2
Impulse discharge current (10/350 $\mu$ s)	$I_{imp}$	100 kA
Charge	Q	50 As
Nominal discharge current (8/20 $\mu$ s)	$I_n$	100 kA
Max. discharge current (8/20 $\mu$ s)	$I_{max}$	150 kA
Follow current interrupt rating	$I_{fi}$	100 A rms
Voltage protection level	$U_p$	$\leq 1,50$ kV
Max. overcurrent protection for through-wiring (V-connection)		125 A gG*
Rated Load Current (for V-connection)	$I_L$	125 A
Response Time	$t_a$	$\leq 100$ ns
Behaviour in case of Temporary OverVoltage (TOV)	$U_T$	1200 V / 200 ms, withstand (W)
Status indicator (no disconnecter)		2 colour indication (green/red)
Operating temperature range / Humidity		-40 ... +80 °C (extended) / 5% ... 95%
Terminal-Conductor size		4-35 mm <sup>2</sup> flexible / 4-50 mm <sup>2</sup> semi rigid
Busbar connections		fork-type busbar 16 mm <sup>2</sup>
Mounting		indoor, 35 x 7,5 mm top hat DIN rail IEC/EN 60715
Case material / Flammability grade		BMC / V-0 in accordance with UL 94
Pollution degree / Degree of protection	PD / IP	3 / 20 (built-in)
Approximate weight		240 g
Dimensions: width		35 mm (2 modules)
To be combined with		IA 25 or L 25/100 230 ff
Switching capacity remote signal contact		ac: 250 V / 0,5 A – dc: 125 V / 0,2 A; 75 V / 0,5 A
Certifications / Quality Mark		CB, STC issued by OVE / KEMA-KEUR
GTIN (EAN)		8054890320870

TECHNICAL DATA

\* with fuse 125 A gG  $I_{imp}$ = 10 kA and  $I_{max}$ = 40 kA; with fuse 100 A gG  $I_{imp}$ =9 kA and  $I_{max}$ = 30 kA