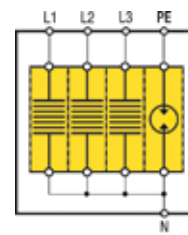
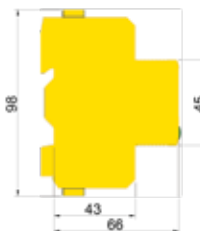
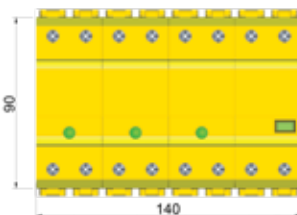




Surge Protective Devices: ZOTUPGAP



IA 25 230 3+1

IA 25 230 3+1 is a ready to install assembly of four voltage switching SPDs providing four modes of protection, typically installed in three-phase plus neutral 230/400 V TT-systems where connection type CT2 (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);
- IA 25 230 3+1 is a self extinguishing spark gap and GDT based switching SPD, for the protection of low voltage installations against direct and indirect lightning effects;
- Impulse discharge current (L-N) of 25 kA 10/350 μ s;
- Impulse discharge current (N-PE) of 100 kA 10/350 μ s;
- High self extinguishing capability of 16 kA rms (follow current interrupt rating L-N);
- **Green LED Status Indicator;**
- The special housing is designed for "Pollution Degree 3".

Model IA 25 ...

230 3+1

| CODE | | 203 141 | | |
|---|------------|---|--------------------------------|----------------|
| Nominal ac system voltage | U_N | 230/400 V ac | | |
| Modes of protection (number of poles) | | 3+1 (L1/L2/L3-N + 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 μ s) (L-N) | I_{imp} | 25 kA | | |
| Impulse discharge current (10/350 μ s) (N-PE) | I_{imp} | 52 kA | | |
| Charge (L-N) | Q | 12,5 As | | |
| Charge (N-PE) | Q | 26 As | | |
| Nominal discharge current (8/20 μ s) (L-N) | I_n | 25 kA | | |
| Nominal discharge current (8/20 μ s) (N-PE) | I_n | 52 kA | | |
| Short Circuit Current rating with max. backup protection | I_{scpr} | 16 kA rms | | |
| Follow current interrupt rating (L-N) | I_{fi} | 16 kA rms | | |
| Follow current interrupt rating (N-PE) | I_{fi} | 100 A rms | | |
| Voltage protection level (L-N, N-PE, L-PE) | U_p | $\leq 2,00$ kV | $\leq 1,50$ kV | $\leq 2,00$ kV |
| Max. back-up protection with fuse | | 315 A gG* | | |
| Max. overcurrent protection for through-wiring (V-connection) | | 125 A gG* | | |
| Rated Load Current (for V-connection) | I_L | 125 A | | |
| Behaviour in case of Temporary OverVoltage (TOV): | L-N | U_T | 440 V / 120 min, withstand (W) | |
| | N-PE | U_T | 1200 V / 200 ms, withstand (W) | |
| Response time | t_a | ≤ 100 ns | | |
| Insulation resistance | R_{ins} | ≥ 1 G Ω | | |
| Status Indicator / N-PE (no disconnecter) | | Green LED / 2 colour indication (green/red) for N-PE | | |
| Operating temperature range / Humidity | | -40 ... +80 °C (extended) / 5% ... 95% | | |
| Terminal-Conductor size (double clamps for V-connection) | | 4-35 mm ² flexible / 4-50 mm ² semi rigid | | |
| 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 | | 1060 g | | |
| Dimensions: width | | 140 mm (8 modules) | | |
| Certifications / Quality Mark | | CB, STC issued by OVE / KEMA-KEUR | | |
| Additional Technical Information: for application at locations with a prospective short circuit current higher than the follow current interrupt rating I_{fi} | | | | |
| Max. prospective short circuit current at the SPD's point of installation | | 50 kA rms (tested by CTI) | | |
| External backup fuse required | | 315 A gG | | |
| GTIN (EAN) | | 8054890320603 | | |

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