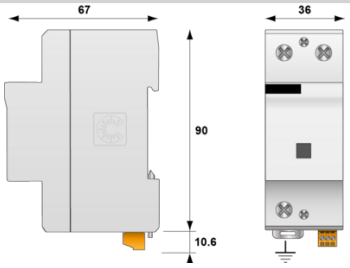
*Type 1+2 AC surge protector - 1-pole*

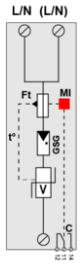
# DS250VG-400



- Type 1+2+3 unipolar surge protector
- 25 kA on 10/350µs impulse
- Low voltage Up
- Internal disconnection, status indicator and remote signaling
- Optimized to TOV
- IEC 61643-11 and UL1449 ed.5 compliance

CE




V: High-energy varistor
GSG: Specific gas tube
Ft: Thermal fuse
C: Remote signaling contact
t°: Thermal disconnection system
MI: Disconnection indicator

| Electrical Characteristics | | |
|---|---|---|
| SPD type | | 1+2+3 |
| Network | | 230/400 V |
| Nominal line voltage | Un | 400 Vac |
| Max. AC operating voltage | Uc | 440 Vac |
| Max. load current<br>*if series connection* | IL | 100 A |
| Temporary Over Voltage (TOV) Charasteristics - 5 sec.<br>*Without disconnection* | UT | 580 Vac withstand |
| Temporary Over Voltage (TOV) Charasteristics - 120 mn<br>*Without disconnection or with safety disconnection* | UT | 770 Vac withstand |
| Residual Current<br>*Leakage current to Ground* | Ipe | None |
| Follow current | If | None |
| Nominal discharge current<br>*15 x 8/20 µs impulses* | In | 30 kA |
| Max. discharge current<br>*max. withstand @ 8/20 µs by pole* | Imax | 70 kA |
| Impulse current by pole<br>*max. withstand 10/350µs by pole* | Iimp | 25 kA |
| Withstand on Combination waveform IEC 61643-11<br>*Class III test: 1.2/50µs - 8/20µs* | Uoc | 20 kV |
| Withstand on overvoltages IEEE C62.41.1 | | 20 kV |
| Specific energy by pole<br>*max. withstand 10/350 µs* | W/R | 156 kJ/ohm |
| Connection mode(s) | | L/N or L/PE |
| Protection mode(s) | | Common Mode or Differential Mode |
| Protection level<br>*@ In (8/20µs) and @ 6 kV (1,2/50 µs)* | Up | 1.5 kV |
| Residual voltage<br>*@ In (8/20 µs)* | Up-in | 1.1 kV |
| Residuel voltage at 5 kA<br>*@ 5 kA (8/20µs)* | Up-5kA | 1 kV |
| Admissible short-circuit current | Isccr | 50 000 A |
| **Mechanical Characteristics** | | |
| Technology | | VG Technology (MOV+GSG) |
| SPD configuration | | Single phase |
| Connection to Network | | By screw terminals: 6-35mm² / by bus |
| Format | | 1-pole modular box |
| Mounting | | Symmetrical rail 35 mm (EN 60715) |
| Housing material | | Thermoplastic UL94 V-0 |
| Operating temperature | Tu | -40/+85°C |
| Protection rating | | IP20 |
| Failsafe mode | | Disconnection from AC network |
| Disconnection indicator | | 1 mechanical indicator |
| Remote signaling of disconnection | | Output on changeover contact |
| Dimensions | | See diagram |
| **Disconnectors** | | |
| Thermal disconnector | | Internal |
| Installation ground fault breaker | | Type 'S' or delayed |
| Back-up protection device | | Fuses type gG - 315 A |
| **Standards** | | |
| Standards compliance | | IEC 61643-11 / EN 61643-11 / UL1449 ed.5 |
| Certification | | |
| **Part number** | | |
| **2578** | | |