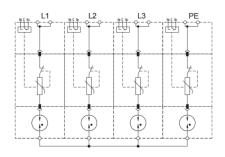


PB25MGVT/960-R/3PI



Basic circuit diagram



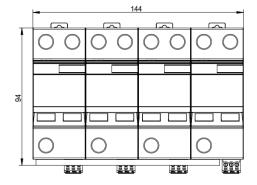
The PB25MGVT/960-R/3PI is class I & class II (or T1+T2) prewired four poles combined SPD designed for high voltage power system lightning current & surge protection, especially for location of high risk exposure or LPZ 0-2 building entrances (IEC 62305-4) to against the damage from direct or close lightning strikes.

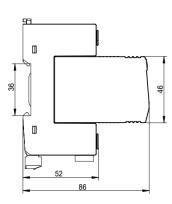
With built in JDA VT technology, PB25MGVT ensures remarkable lightning current discharge capacity up to $22kA\ 10/350\mu s$ and No leakage current & No follow current. It can be applied in most electrical installation and provide better reliability and safety protection, and fulfill the specific requirement of wind turbine industrial.

A notable feature of PB25MGVT is dual module redundancy design, two individual MOV protection modules in parallel in one pole SPD with two indication windows, so that the SPD could keep on working in spite of one protection module fault or one indication window turns to red. That will help to realize the uninterrupted

- T1+ T2 SPD per IEC/EN 61643-11 standard.
- Prewired four poles TUV certificated SPDs for use in three phase TN-C / IT systems.
- Unique thermal disconnector design provides quick thermal response and secure disconnection
- Dual module redundancy for one pole SPD and dual fault indication windows, with optional remote signal contact
- Dightning current capacity up to 22 kA 10/350μs, surge current capability up to 100kA 8/20μs
- Low voltage protection level due to JDA VT technology.
- High short-circuit current rating up to 50kArms, suitable for application in most AC power system.
- Long service life because of no leakage current and follow current
- Better reliability and robustness, Higher TOV (Temporary Over-Voltage) withstanding performance
- Pluggable module for easy replacement without the need to remove system wiring.
- Comply with UL1449 5th, IEEE C62.41,CSA C22.2 standards

Dimension drawing







Dimension drawing

| Part No. | PB25MGVT/960-R/3PI |
|---|--|
| In accordance with | IEC/EN 61643-11:2011; UL1449 5th; EN50539-22 |
| Category IEC/EU/VDE | I+ II /1+2/ B+C |
| Protection mode | L-PE, L-L |
| Nominal Voltage (AC) Un | 690V, 3-Phase TN-C/IT |
| Power frequency | 50/60Hz |
| Max. continuous operating voltage(AC) Uc | 960V |
| Nominal discharge current by pole (8/20) In | 25kA |
| Max. discharge current by pole (8/20) Imax | 100kA |
| Lightning impulse current by pole (10/350) limp | 22kA (Annotation1) |
| Voltage protection level Up | 4.0kV (L-L, L-PE) |
| Response time tA | ≤25ns |
| Temporary overvoltage TOV UT Withstand mode 120min | 1350Vac |
| Follow current & interrupt rating Ifi | No |
| Leakage current lpe | 0mA |
| Short-circuit current rating Isscr | 50kArms |
| Backup fuse(only required if not already provided in mains) | ≤250A gL/gG |
| Operating temperature range | -40°C ~ +85°C |
| Altitude | -500m ~ +4000m |
| Cross-section of connection wire (max) | Single-strand 35mm ² ; multi-strand 25mm ² |
| Mounting | 35mm DIN-rail in accordance with EN 50022/DIN46277-3 |
| Enclosure material | Thermoplastic; extinguishing degree UL94 V-0 |
| Degree of protection | IP20 |
| Installation width | 8 modules, DIN 43880 |
| Thermal disconnector | Internal Green – normal ; red - failure |
| Remote alarm contact | With |
| Additional data for Remote Alarm Contacts | |
| Remote alarm contact type | Isolated Form C |
| Switching capability Un/In | AC: 250V/0.5A DC: 250V/0.1A; 125V/0.2A; 75V/0.5A |
| Cross-section of remote signaling wire | Max. 1.5mm²(or # 16AWG) |

Annotation 1:22kA per pole, total 88kA limp per phase > 50kA