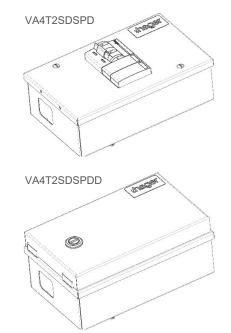
## :hager

# Enclosed Surge Protection with 100A Main Switch Type 2 Surge Device

# For protection against transient overvoltages and switching overvoltages.

Surge protection devices are designed to protect electronic equipment within an installation from the harmful effects of overvoltages. BS 7671 regulation 443.4.1 now requires protection against transient overvoltages could result in:

- (i) serious injury to, or loss of, human life
- (ii) failure of a safety service, as defined in part 2
- (iii) significant financial or data loss.



For all other cases, protection against transient overvoltages shall be provided unless the owner of the installation declares it is not required due to any loss or damage being tolerable and they accept the risk of damage to equipment and consequential loss.

The unit is designed to be installed before the consumer unit or distribution board on an installation fed by meter tails (BS 6004). Meter tails can be connected into and out of the 100 A switch with the surge protection device in parallel. The main earthing conductor is also connected into and out of the earth terminal on the surge protection device.

The Line is protected by a Metal Oxide Varistor (MOV) and the neutral by a spark gap device. The Metal Oxide Varistor will degrade each time it deals with high voltage or electromagnetic disturbances, when it is end of life the flag will turn red and the cartridge will require to be changed. At this point the cartridge will fail open circuit and the device will no longer provide surge protection. Simply remove the cartridge and replace with a new cartridge (SPB015, SPB015N). The rest of the installation will remain unaffected.

VA4T2SDSPD

| Description   | Reference   |
|---|-------------|
| Enclosed Type II Surge Protection with 100 A Main Switch                | VA4T2SDSPD  |
| Enclosed Type II Surge Protection with 100 A Main Switch and Metal Door | VA4T2SDSPDD |

### **Features & Benefits**

- Protects the installation against transient overvoltages
- End of life indicator on Line cartridge gives indication when replacement is required.
- Ideal when retrofitting surge protection to an installation
- No space required inside existing consumer unit or distribution board.
- Complete with 2 cable entry plates for 2 x 25mm<sup>2</sup> meter tails and 1 x 16mm<sup>2</sup> earthing conductor

### Surge Protection Enclosure Type 2

# :hager

#### **General Data**

| Standards/regulations  | IEC 61643-11 2011 EN 61643-11 2012 |
|--|------------------------------------|
| IEC test classification  | T2                                 |
| EN type  | T2                                 |
| Mode of protection   | L-N<br>L-PE<br>N-PE                |
| Mounting type  | DIN rail: 35 mm                    |
| Degree of pollution  | 2                                  |
| Overvoltage category   | III                                |
| Degree of protection   | IP20                               |
| Ambient temperature (operation)  | -40 °C 80 °C                       |
| Ambient temperature (storage/transport) Permissible humidity (operation) | -40 °C 80 °C                       |

#### **Electrical Data**

| Nominal voltage U <sub>n</sub>                         | 230 / 400 V AC (TN / TT) |
|--|--------------------------|
| Nominal frequency fn                                   | 50 Hz (60 Hz)            |
| Maximum continuous operating voltage Uc (L-N)          | 275 V AC                 |
| Maximum continuous operating voltage Uc (N-PE)         | 260 V AC                 |
| Residual current IPE                                   | ≤ 5 uA                   |
| Standby power consumption Pc                           | ≤ 360 mVA                |
| Nominal discharge current In (8/20) µs                 | 20 kA                    |
| Maximum discharge current Imax (8/20) µs               | 40 kA                    |
| Follow current interrupt rating I <sub>fl</sub> (N-PE) | 100A                     |
| Short-circuit current rating IsccR                     | 50kA                     |
| Voltage protection level Up (L-N)                      | ≤ 1.5 kV                 |
| Voltage protection level Up (L-PE)                     | ≤ 1.5 kV                 |
| Max. backup fuse                                       | 125 A (gG)               |
|  |                          |

### Replacement cartridges - SPB015, SPB015N

