

## INSTALLATION GUIDE

### Surge Arrestors

Model: SA-11-150-3P and SA-11-50-1P



This product should only be installed by a licenced electrician in accordance with all the requirements of AS/NZ 3000 (current edition) and other relevant Standards and Regulations  
Note this also applied to surge arrestor replacement cartridges

#### WARNING

If the surge arrestor is subject to a direct lightning strike, the equipment connected can be damaged. The surge arrestor should not be opened or tampered with and voids the warranty.

#### APPLICATION

The single and three pole Voltex Surge Arrestors are used for limiting overvoltage's in consumer switchboards, such as those induced by distant lightning strikes.

#### SPECIFICATIONS

| Parameter                                  | Symbol           | SA-11-50-1P & SA-11-150-3P |
|--|------------------|----------------------------|
| Operating Voltage                          | U <sub>o</sub>   | 240Vac +6%                 |
| Maximum permanent operating voltage        | U <sub>c</sub>   | 300Vac                     |
| Nominal discharge current (8/20)           | I <sub>n</sub>   | 20kA                       |
| Maximum discharge current (8/20)           | I <sub>max</sub> | 50kA                       |
| Protection level                           | U <sub>p</sub>   | 1500V                      |
| Backup fuse                                |                  | See diagram                |
| Degree of protection                       |                  | IP20                       |
| Operating temperature range                |                  | -40°C to +70°C             |
| Short circuit withstand (I <sub>sc</sub> ) |                  | 50kA                       |
| Operating humidity                         |                  | 5 % to 95 %                |
| Type of Connection Terminals               |                  | Minimum 6mm <sup>2</sup>   |
| Mounting                                   |                  | 35mm DIN Rail              |

#### INSTALLATION

When a surge arrestor is installed at the main switchboard (MEN connection), the input of the device is connected to the load side of the main switch and the output side is earthed. The maximum voltage at the supply terminal must not exceed 300V. The arrestor is installed before a residual current device.

If no MEN is present at the installation point, please refer to the AS/NZ 3000 wiring rules (Appendix 'F').

#### FAULT INDICATOR

The device automatically disconnects from the supply network in the event of a thermal overload fault. Subsequent electrical equipment is no longer protected against overvoltage.

If the fault indicator window is green, the surge arrestor is OK, if it is not green it requires replacing.

A faulty surge arrestor must be repaired by a licenced electrician.

#### INSULATION MEASUREMENT

The surge arrestor must be disconnected on the earth side when making insulation measurements, otherwise a low reading will be encountered.

#### LOCAL REGULATIONS

Please refer to local service rules to ensure compliance at the installed location.

#### CONNECTION

Where fault current is below 25kA, Backup Fuse F2 is not required, unless Service Fuse F1 is over 300A.

