

# MK SENTRY

## Surge Protection Device (SPD) Single Module



### Description

MK Sentry surge device has been designed to meet the requirements of the latest Edition Wiring Regulations.

The device will provide protection from two forms of surge:

LEMP – Lighting Electro Magnetic Pulse

SEMP – Switching Electro Magnetic Pulse

The type 2 surge protection device is the main protection system for all low voltage electrical installations. It will prevent the spread of overvoltage in electrical installation and protects the load.

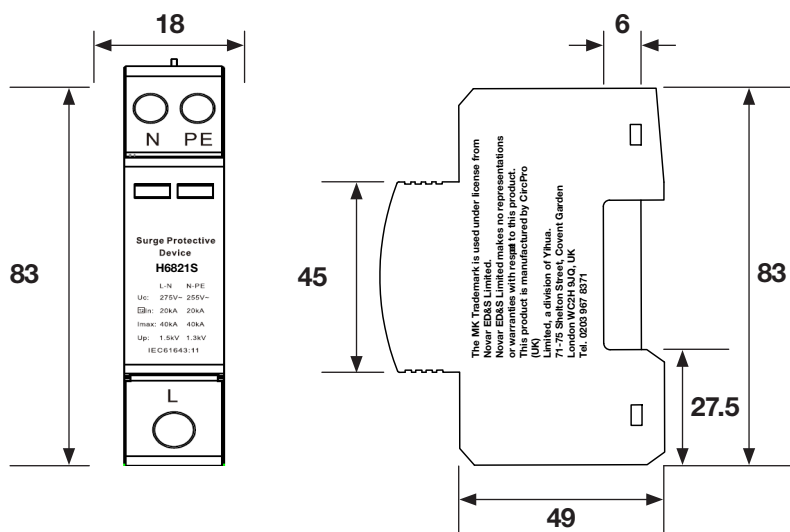
It must be provided where over voltage could-

- Cause serious injury/loss of life
- Cause interruption of public services
- Cause interruption to commercial/industry activity
- Affect a large number of co-located individuals

### Standards and approvals

MK Sentry surge devices are designed to fully comply with the requirements of BS EN61643 and IEC 61643-11. The surge devices feature positive contact status indication in accordance with 17th edition IEE Wiring Regulations (537.2.2.2 and 537.3.2.2).

### Dimensions (mm)



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### TECHNICAL SPECIFICATION

#### ELECTRICAL

SPD ACCORDING TO EN 61643-11/IEC61643-11  
Type 2/Class II

ENERGY COORDINATION WITH TERMINAL  
EQUIPMENT ( $\leq 10M$ )  
Type 2+ Type 3

NOMINAL VOLTAGE (AC) (UN)  
230V (50/60Hz)

MAX. CONTINUOUS OPERATING VOLTAGE  
(AC) (UC)  
MOV (Varistors) 275V (50/60Hz)  
GDT (Spark gap) 255V (50/60Hz)

NOMINAL DISCHARGE CURRENT (8/20 $\mu$ S) (IN)  
MOV (Varistors) 20KA GDT (Spark gap) 20KA

MAX. DISCHARGE CURRENT (8/20 $\mu$ S) (IMAX) MOV  
(Varistors) 40KA GDT (Spark gap) 40KA

VOLTAGE PROTECTION LEVEL (L-PE)/(N-PE) (UP)  
MOV (Varistors) 1.5KV GDT (Spark gap) 1.3KV

RESPONSE TIME (TA)  
 $\leq 25nS$

MAX. MAINS-SIDE OVERCURRENT PROTECTION  
125AgG

SHORT-CIRCUIT WITHSTAND CAPABILITY FOR  
MAX. MAINS-SIDE.  
OVERCURRENT PROTECTION (ISCCR)  
50KA

TEMPORARY OVERVOLTAGE (TOV)(UT)-  
CHARACTERISTIC  
335V/5 Sec-- withstand

#### PHYSICAL

OPERATING TEMPERATURE  
-40°C ~ +80°C

OPERATING STATE /FAULT INDICATION Green/Red

NUMBER OF PORTS  
1

CROSS-SECTION AREA (MIN)  
1.5mm<sup>2</sup> solid/Flexible

CROSS-SECTION AREA (MAX)  
35mm<sup>2</sup> stranded /25 mm<sup>2</sup> flexible

MOUNTING  
35mm DIN rails according to EN 60715

ENCLOSURE MATERIALS  
Thermoplastic , UL94 V0

IP LEVEL  
IP20

APPROVALS  
TUV

