FuseBox®

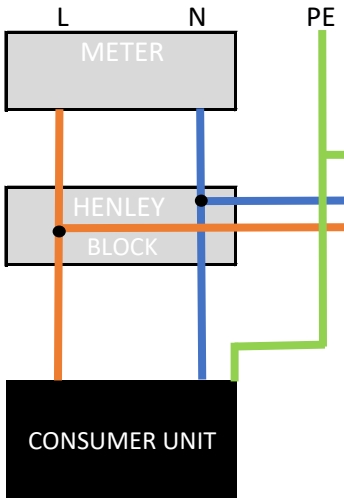
SURGE PROTECTION UNIT (SPD)

# F1M2SPD

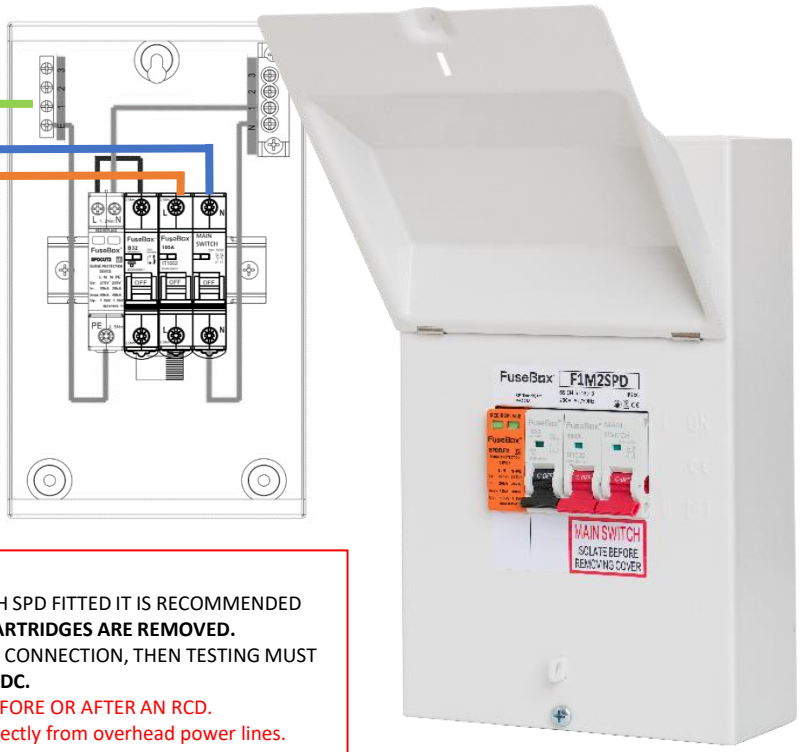
APPROVALS

5 060523 523474

CONNECTIONS




PRODUCT IMAGE




**CAUTION**

WHEN CONDUCTING INSULATION RESISTANCE TESTING WITH SPD FITTED IT IS RECOMMENDED EITHER THE **EARTH CONNECTION OR THE PLUG IN CARTRIDGES ARE REMOVED.**
IF YOU DO NOT WISH TO REMOVE THE CARTRIDGES OR EARTH CONNECTION, THEN TESTING MUST BE AT A **MAXIMUM OF 250V DC.**
SURGE PROTECTION DEVICE CAN BE INSTALLED BEFORE OR AFTER AN RCD.
*Should not be used on installations where they are fed directly from overhead power lines.

**PRODUCT DATA**

| | |
|---|---|
| **PART NUMBER** | **F1M2SPD** |
| **BARCODE** | 5060523523474 |
| **DESCRIPTION** | 100A MAIN SWITCH, SURGE PROTECTION DEVICE T2 AND MT06B321 MCB |
| **DIMENSIONS (HxWxD)mm** | 261x152x93 |
| **STANDARD** | IEC EN 60947-3 / EN 61643-11 (Type 2) / IEC 61643-1 (Class II) |
| **FLAG INDICATION** | GREEN: GOOD RED:REPLACE |
| **TECHNOLOGY** | MOV (METAL OXIDE VARISTOR) / GDT (GAS DISCHARGE TUBE) |
| **VOLTAGE (Un)** | 230V~ |
| **SYSTEM** | TN-C-S, TN-S, TT |
| **TERMINAL CAPACITY** | MAIN SWITCH: 25mm² /SPD: 6mm² - 16mm² |
| **RECOMMENDED TORQUE** | 2.5Nm / 1.2Nm (as marked on device terminals) |
| **DEGREE OF PROTECTION** | IP20 |
| **DEVICE MOUNTING** | 35mm DIN RAIL |
| **MAXIMUM OPERATING VOLTAGE (Uc)** | L:275V 1.5kV : N-PE: 255V 1.3kV |
| **NOMINAL DISCHARGE CURRENT (In 8/20µs)** | 20kA |
| **MAXIMUM DISCHARGE CURRENT (Imax 8/20µs)** | 40kA |
| **RESPONSE TIME** | ≤25ns |
| **BACK UP FUSE** | 125A fuse gG |

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*FuseBox is the trading name of CP (Electric) Limited SC553729*

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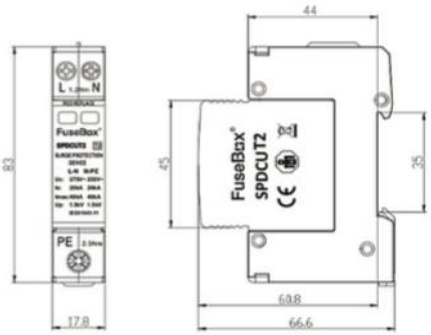
Part number: **SPDCUT2**

Single module T2 SPD with 32A MCB and connecting cables.




**CAUTION**

WHEN CONDUCTING INSULATION RESISTANCE TESTING WITH SPD FITTED IT IS RECOMMENDED EITHER THE **EARTH CONNECTION OR THE PLUG IN CARTRIDGE IS REMOVED.**

IF YOU DO NOT WISH TO REMOVE THE CARTRIDGE OR EARTH CONNECTION, THEN TESTING MUST BE AT A **MAXIMUM OF 250V DC.**

## TECHNICAL

| | |
|---|---|
| **PART NUMBER** | SPDCUT2 |
| | |
| **DESCRIPTION** | SURGE PROTECTION DEVICE T2 (1+ N-PE) 18mm INCLUDES 32A B TYPE MCB AND CABLES (6mm²) (CABLES CAN BE SHORTENED IF REQUIRED) |
| **STANDARD** | EN 61643-11 (Type 2) |
| **FLAG INDICATION** | GREEN: GOOD RED:REPLACE |
| **TECHNOLOGY** | MOV (METAL OXIDE VARISTOR) /GDT (SPARK GAP) |
| **VOLTAGE (Un)** | 230V~ 50/60Hz |
| **SYSTEM** | TN-C-S, TN-S, TT |
| **TERMINAL CAPACITY** | PE: 16mm² L/N : 10mm² |
| **RECOMMENDED TORQUE** | PE 2.5Nm / L 1.2Nm / N 1.2Nm |
| **DEGREE OF PROTECTION** | IP20 |
| **MOUNTING** | 35mm DIN RAIL |
| **MAXIMUM OPERATING VOLTAGE (Uc)** | L-PE 275V; N-PE 255V |
| **NOMINAL DISCHARGE CURRENT (In 8/20µs)** | 20kA |
| **MAXIMUM DISCHARGE CURRENT (Imax 8/20µs)** | 40kA |
| **VOLTAGE PROTECTION LEVEL** | L-PE ≤1.5kV ; N-PE ≤1.3kV |
| **RESPONSE TIME (tA)** | ≤25ns |
| **MAXIMUM BACK UP FUSE** | 125A fuse gG |
| **SHORT CIRCUIT WITHSTAND (ISccR)** | 50kA |
| **TEMPORARY OVERVOLTAGE (UT)** | 335V/5 sec - withstand |

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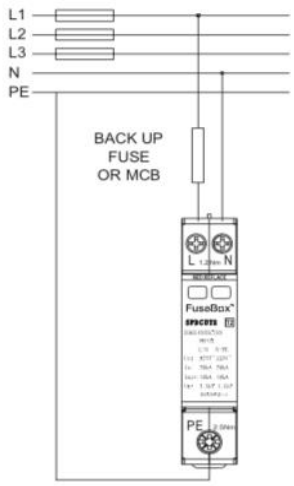
## 1 Installation

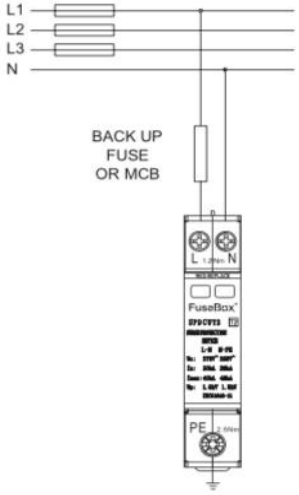
This device must be installed and tested by a qualified electrician in accordance with the current IET Wiring Regulations BS7671.

## 1a SYSTEM CONNECTION DIAGRAMS

TN-S / TN-C-S (PME)




TT




## 2 Torque settings

Before powering up the installation check all connections are TORQUED (see table). Loose connections cause fires!

## CHECK REGULARLY

FLAG INDICATOR STATUS

GREEN OK

**RED REPLACE**