

Enclosed Surge Protection 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 states; Protection against transient overvoltages shall be provided where the consequence caused by overvoltage could:

- (i) result in serious injury to, or loss of, human life, or
- (ii) result in interruption of public services and/or damage to cultural heritage, or
- (iii) result in interruption of commercial or industrial activity, or
- (iv) affect a large number of co-located individuals.

The unit is designed to be installed next to the consumer unit or distribution board. The cable provided can be connected to the main switch of the consumer unit or distribution board. The earth conductor (6mm²) is connected into the earth terminal on the surge protection device and the main earthing terminal in the consumer unit or distribution board.

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 (SPD015D). The rest of the installation will remain unaffected.



VA2T2SPD

Description	Reference
Enclosed Type II Surge Protection Device with LN Cable (500mm)	VA2T2SPD
Note earth cable not provided	

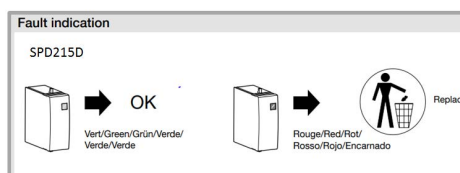
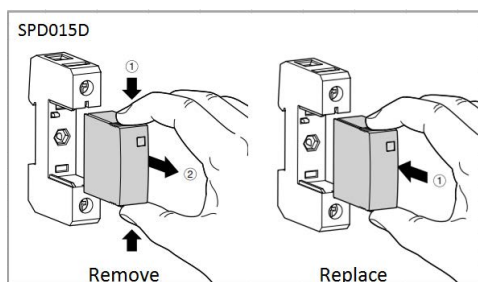
Features & Benefits

- 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.
- Provided with Line and neutral conductors

Technical Characteristics

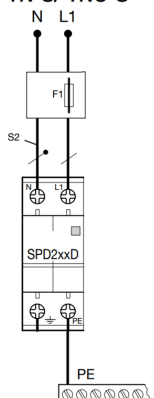
Standard	BS EN 61439-3
Rated operational voltage	230 V
Rated Frequency	50 / 60 Hz
Max discharge (I_{max}) or impulse (I_{imp})	15 kA
Nominal discharge current (I_n)	5 kA
Voltage protection level U_p according to IEC 61643-1	1 kV
Voltage continuous operating voltage U_c	275 V
Nominal Tightening Torque	3.6 Nm
Pollution Degree to IEC 60664 / IEC 60947-2	2
Protection index IP	IP2X
Working Temperature	-40°C up to 60°C
Storage Temperature	-40°C up to 80°C
Altitude	2000 m
Remote contact	No
Connection Capacity	35mm ²
Size H x W x D	80 mm x 152 mm x 68 mm
RoHs	Voluntary Conformity
Warranty	2 Years

To remove a cartridge when flag is red



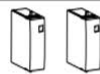
Position of SPD in installation

TT/ TN-S/ TNC-S



Overcurrent protection (F1) is provided by the upstream over current protection device (OCPD) which for a consumer unit is generally the service cut-out fuse.

SPD Characteristics

	I_n (8/20 μ s)	I_{max} (8/20 μ s)	U_p	U_c	F1 max \Rightarrow	I_{pe}	I_{scrr}	
SPD215D	5 kA	15 kA	≤ 1 kV	275 V (50/60 Hz)	125 A gG	$< 5 \mu$ A	10 kA _{rms}	SPD015D