

Brief Product Description

This Type 2 Surge Protection Device provides superior protection against transient overvoltages by diverting the surge to earth within <25ns and protecting all loads/circuits connected to the consumer unit.

This SPD unit mounts directly onto the busbar without the need for a backup MCB and is suitable for TN, TNC-S and TT systems.

Features

- Type 2 Single Phase
- Suitable for Domestic Installations
- 40kA
- Max Back Up Fuse 100A gG
- Pollution degree 3 tested
- -25°C - +40°C operating temperature range
- Single module
- 40kA
- BS7671 Amendment 4 compliant device

Technical Specifications

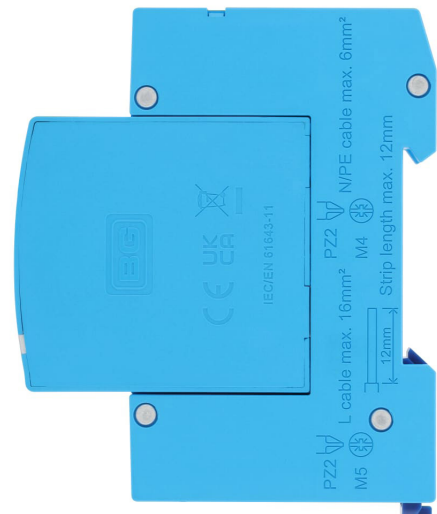
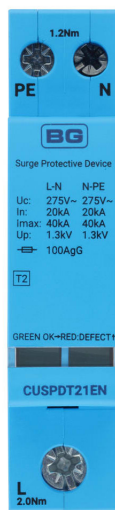
Neutral Position	Right
Wire Configuration	L/N/PE
Fixing Mode	DIN Rail Type 35mm
Rated Operational Voltage Ue	230V
Pollution Degree	3
Frequency	50Hz
Type of Supply Voltage	AC
Max Continuous Voltage	275V
Voltage Protection Level (up)	3kA 8/20µs)kA
Nominal Discharge Current (in)	8/20µs kA
Response Time	<25ns
Screw Terminal	Yes - Pozidrive 1 & 2
Terminal Torque	L - 3Nm N/PE - 1.2Nm
Max cable Capacity	L - 16mm N/PE - 1.5 - 6mm
Standards	BS EN 61643-11 IEC EN61643-11 BS EN 62305

Part Codes

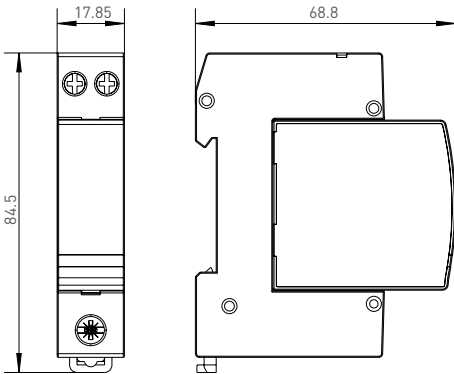
Cat No.	Rating
CUSPDT21EN	40kA



Product Images



Dimensional Line Drawing



Dimensions of Product

Height: 84.5mm

Width: 17.85mm

Depth: 68.8mm

Note

A surge protection device (SPD's) can fail when a surge event exceeds its intended capacity or through operational wear over repeat exposure during its life.

Regulation 534.4.5.1 of BS 7671:2018 + A2:2022 + A3:2024 (18th Edition AMD4) states that SPDs shall be protected against overcurrent with respect to short-circuit. This can be integrated within the SPD device or positioned upstream of the SPD in the form of an MCB. The BG CUSPDT21EN device has been specifically developed with an inbuilt current limiting circuit. This will melt in the event of high current (short circuit) exposure, causing internal device connections to release and creating the failsafe open circuit. This in turn will trigger the devices status indicator to notify the user that the SPD requires replacing.

In accordance with BS7671 the upstream service head fuse is in place to for worst-case conditions in the event of a catastrophic surge failure to safely remove the supply.

Pollution Degree 3 Definition

This is an approval rating given when testing has been performed on devices or electrical items. It ensures that both conductive pollution or dry non-conductive pollution does not become conductive when natural condensation is present.

Natural condensation can occur when an enclosure containing electrical devices/products is installed externally or in more harsh conditions than an internal application and could potentially be exposed to lower or higher ambient temperatures which could generate natural condensation which may harm the internal electrical components inside the enclosure.

BG Devices are tested to pollution degree 3 and also temperature tested to -25°C to + 40°C.

Guarantee

BG Electrical Circuit Protection products are guaranteed against faulty materials and workmanship for a period of 10 years from date of delivery.

Products will be repaired or (at BG Electrical's discretion) replacements will be supplied or (at BG Electrical's discretion) a credit note will be issued. This guarantee is subject to BG Electrical's conditions of sale and in particular to the following conditions being met.



1. Notification of any defect is given as soon as reasonably practicable after becoming apparent, and the products then returned to BG Electrical.
2. The products have only been operated under normal operating conditions and have only been subject to normal use.
3. No work (other than normal and proper maintenance) has been carried out to the products without BG Electrical's prior written consent.
4. The products have been assembled, or incorporated into other goods, by a qualified and recognised electrician and only in accordance with any instructions issued by BG Electrical.
5. The defect has not arisen from an item manufactured or supplied by a person other than BG Electrical.

This guarantee does not affect any customer statutory rights.

All components used in a BG Electrical enclosure, must be supplied by BG Electrical.

The use of any other components will negate compliance to BS 61439 and the BG Electrical guarantee. Failure to fit the enclosure in accordance with these instructions will invalidate the guarantee.