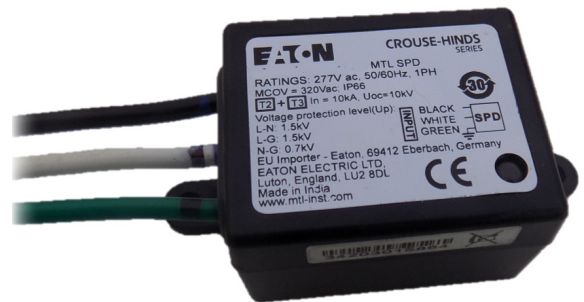


MTL MA3115 range

Surge and transient protection for single phase equipment

- 15kA surge protection per mode
- Protects single phase AC equipment such as CCTV, VDU, UPS, inverter etc.
- Ideal for single phase AC protection of EV charging infrastructure
- Protects 100-277V systems
- High performance to size ratio
- Inbuilt Thermal protection
- Inbuilt LED status indication feature
- Fully automatic operation
- Parallel connection
- IP66 protection allows for installation in extreme environments
- Optimized Single Stage technology
- 10 year product warranty



The MA3115 range of surge protection devices are versatile, high performance surge protection devices which can be used within a wide variety of equipment in industrial and commercial applications. The circuitry will protect equipment from damaging electrical transients and disturbances.

The space-saving footprint allows the MA3115 range to be mounted in confined locations whilst providing protection the Line/ Neutral, Line/ Ground, and Neutral/Ground modes.

We provide a high performance-to-size ratio by utilizing a hybrid of GDT and Metal Oxide Varistor (MOV) with thermal protection to isolate the SPD in case of failure giving added peace of mind.

Fully automatic in operation, the MA3115 range reacts immediately, clamping voltage surges without causing undue leakage losses under normal operation. No operator intervention is required, the MA3115 range resets automatically and are maintenance-free

Optimized Single Stage technology with high discharge current rating ensures better performance under multiple surge events. The series is available in Universal Voltage range covering 100-277V, which reduces your inventory and cost.

EV charging stations consists of sensitive electronics and MA3115 is an ideal solution to protect EV electronics from a direct/ indirect effects of lightning strike. MA3115 protects single phase circuits which operates in 100V-277V

Parallel version. The MA3115 range is available in Parallel version which disconnect themselves from the load under fault conditions leaving power to the load.

Meeting and exceeding the requirements of ANSI/IEEE C62.45 & ANSI/IEEE C62.41 the MA3115 range is also a Type 2+Type 3 SPD according to IEC61643-11. With ingress protection to IP66, the MA3115 range can be installed in most locations and carries an unrivalled "no fuss" 10 year manufacturer's warranty.

LED status indication facility is available as a standard feature. This displays both 'power on' and that protection is present. Thermal fusing is also incorporated into the device as an additional safety feature.

SPECIFICATION

SPD according to IEC61643-11 – T2+T3

Nominal discharge current, I_n
10kA (8/20μs)

Maximum surge current, I_{max}
15kA (8/20μs)

Open circuit voltage
10kV (1.2/50 μs)

Leakage current
<0.3mA

Maximum continuous operating current
Unlimited Amps: Parallel connected units

Working voltage
100-277V AC, 50/60Hz

Ambient temperature limits
-40°C/-40°F to +75°C/167°F (operating)
-40°C/-40°F to +100°C /212°F (storage)

Humidity
5 – 95% (non condensing)

Terminal/Leads
2.5mm² (14AWG)/150mm

TOV withstand
UT- 402V (5sec), 528V (120 min)

Response time
<25nS

LED
ON = Protection present, OFF = Replace SPD

Casing
High Temperature, PC UL94-V0

Weight
120 grams (4.2 oz.) approx.

Dimensions
See Figures

Ingress protection
IP66

Standards

- ANSI/IEEE C62.41: 2002 Location C, High Exposure
- IEC61643-11:2011 Type2+Type3

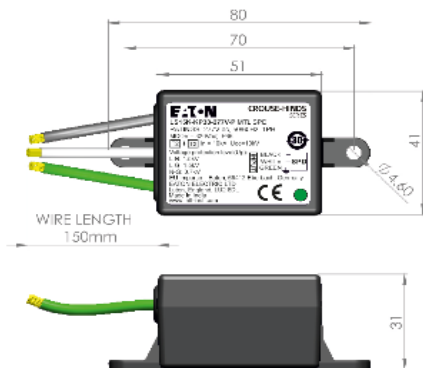
Over Current protection

- Backup fuse rating-50A(gG)

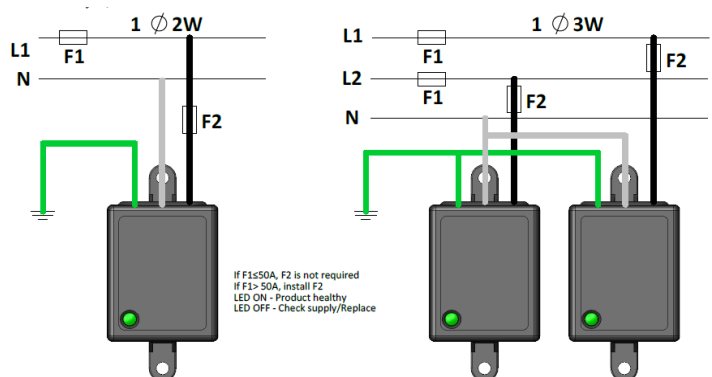
ORDERING INFORMATION

Model	Circuit Type	Service	Modes	Maximum Surge Current	Maximum Continuous Operating Voltage	Up
MA3115-277V-1R	Parallel, 1-stage, Corner LED	100-277V AC	L-N, L-G, N-G	15kA	320Vac	L-N:1500V L-G :1500V N-G :700V

DIMENSIONS IN MM



WIRING DIAGRAM



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The given data is only intended as a product description and should not be regarded as a legal warranty of properties or guarantee. In the interest of further technical developments, we reserve the right to make design changes.