MTL LS15K-KP30 range

Surge and transient protection for LED lighting systems

- 15kA surge protection per mode
- Protects LED lighting systems and drivers
- Space-saving footprint for mounting in confined locations
- 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 LS15K-KP30 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 LS15K-KP30 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 Metal Oxide Varistor (MOV) and state-of-the-art failure disconnect network giving added peace of mind.

Fully automatic in operation, the LS15K-KP30 range reacts immediately, clamping voltage surges without causing undue leakage losses under normal operation. No operator intervention is required, the LS15K-KP30 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.

High maximum operating voltage ranges allows the LS15K-KP30 range to endure large over-voltage swings that damage most other SPDs. Low limiting voltage even at high surge current levels, provides optimal protection and ensures longevity of the LED drivers.

Parallel version. The LS15K-KP30 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 LS15K-KP30 range is also a Type 2+Type 3 SPD according to IEC61643-11.With ingress protection to IP66, the LS15K-KP30 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.

Powering Business Worldwide

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SPECIFICATION

SPD according to UL1449,4th edition- Type 4CA

SPD according to IEC61643-11 – T2+T3

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

Maximum surge current, Imax
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
400V DC/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 (14AW

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

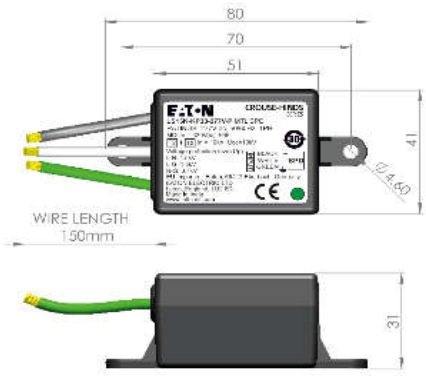
Standards
- ANSI/IEEE C62.41: 2002 Location C, High Exposure
- IEC61643-11:2011 Type2+Type3
- Meets Surge Protection Requirements of : US Air Force ETL 10-2 LED Fixture Design & Installation Criteria
- Commercial Building Energy Alliances (CBEA) LED Lighting Performance Specifications

Over Current protection
- Backup fuse rating-50A(gG)

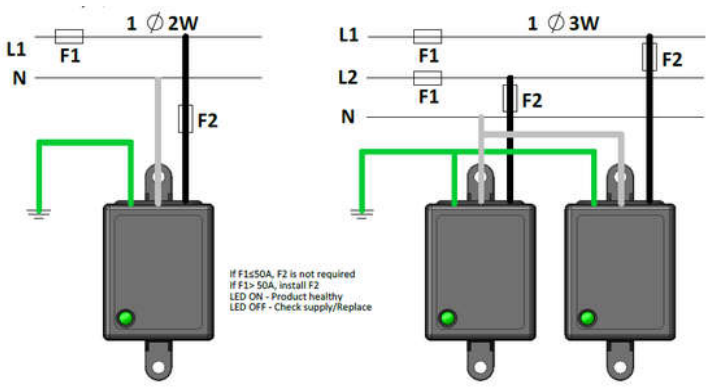
ORDERING INFORMATION

Model	Circuit Type	Service	Modes	Maximum Surge Current	Maximum Continuous Operating Voltage	Up
LS15K-KP30-277V-P	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.