MTL LS05K Range

Operating Instructions for LED Lighting-UL Type 4CA SPD



CAUTION

Do not attempt to open or tamper with the SPD in any way as this will compromise performance and will void the warranty.

Megger and hi-pot tests will damage this device. Disconnect all power supplying the equipment and isolate the SPD unit before testing.

Prior to installation, confirm the SPD is rated for the correct voltage, and frequency equivalent to the application.

Risk of Electric Shock – Only intended for installation in accordance with National Electrical Code, ANSI/NFPA-70, Article 398".

Installation

1) Turn off all power supplying this equipment.
2) Mount the SPD using the enclosure flanges to a flat surface.
3) Connect the wire leads as per the wiring diagrams below.
4) For optimal device performance, use shortest length of wire possible and avoid sharp or unnecessary bends.

Product Characteristics

Model	Circuit Type	Service	Modes	In	Frequency	Diagram
LS05K-277V-S	Series-All Mode	120-277V,5A	L-N, L-G, N,G	5 kA	50/60Hz	A
LS05K-347V-S	Series-All Mode	347V,5A	L-N,L-G,N-G	5 kA	50/60Hz	A
LS05K-480V-S	Series-All Mode	480V,5A	L-L,L-G	5 kA	50/60Hz	B
LS05K-277V-P	Parallel-All Mode	120-277V	L-N,L-G,N-G	5 kA	50/60Hz	C
LS05K-347V-P	Parallel-All Mode	347V	L-N,L-G,N-G	5 kA	50/60Hz	C
LS05K-480V-P	Parallel-All Mode	480V	L-L,L-G	5 kA	50/60Hz	D

Cable size 14 AWG
Short circuit rating of external fuse 200kA(AC), 20kA(DC)

Powering Business Worldwide

Eaton Electric Limited,
Great Marlings, Butterfield, Luton
Beds, LU2 8DL, UK.
Tel: + 44 (0)1582 723633 Fax: + 44 (0)1582 422283
E-mail: mtlenquiry@eaton.com
www.mtl-inst.com

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Wiring Diagrams

SERIES CONNECTED SPDs: Units designed to be connected in series with the LED driver for protection of the modes as listed in the table above. Refer to the connection diagrams to ensure that the SPD you have chosen is appropriate for the application it is being installed into. These range versions have internal protection that will disconnect the surge protective components and will not maintain power to the load. If this situation is undesirable for the application, replace the unit with a parallel connected type.

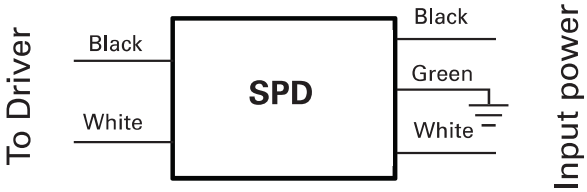

Figure A

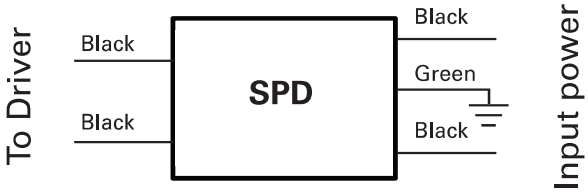

Figure B

PARALLEL CONNECTED SPDs: Units designed to be connected in parallel with the LED driver for protection of the modes as listed in the table above. Refer to the connection diagrams to ensure that the SPD you have chosen is appropriate for the application it is being installed into. These parallel versions have internal protection that will disconnect the surge protective components but will maintain power to the load – now unprotected. If this situation is undesirable for the application, replace the unit with a series connected type. A backup fuse of 10A UL recognized .Fuse is recommended ,if the load current is more than 10A.

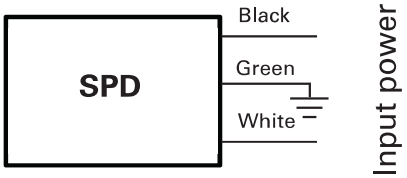

Figure C

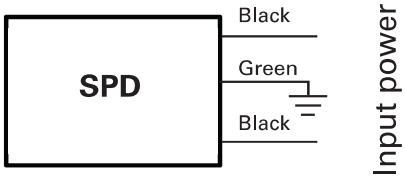

Figure D

Powering Business Worldwide

Eaton Electric Limited,
Great Marlings, Butterfield, Luton
Beds, LU2 8DL, UK.
Tel: + 44 (0)1582 723633 Fax: + 44 (0)1582 422283
E-mail: mtlenquiry@eaton.com
www.mtl-inst.com

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EUROPE (EMEA):
+44 (0)1582 723633
mtlenquiry@eaton.com

THE AMERICAS:
+1 800 835 7075
mtl-us-info@eaton.com

ASIA-PACIFIC:
+65 6645 9864 / 9865
sales.mtlsing@eaton.com

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