

Surge Current Suppressor

- Maximum working current is 8A, and inrush current can be suppressed to a maximum of 20A.
- Built-in bypass relay.

Technical Parameters

- \bullet Built-in thermal fuse for thermal protection.
- Used to reduce the high start-up current generated by loads such as LED dimming drivers and LED dimmable lamps.

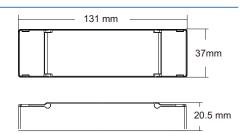


CE ROHS emc LVD RED

Input and Output Environment Safety and EMC EN IEC 55015:2019+A11:2020 EN 61547:2009 EN IEC 61000-3-2:2019+A11:2021 EN 61000-3-3:2013+A11:2019 ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4 Operation temperature Ta: -20 °C ~ +55 °C Input voltage AC100-240V Input supply frequency Case temperature (Max.) Tc: +85°C 50/60Hz EMC standard (EMC) Work current IP rating IP20 Max. 8A EN 61347-1:2015+A1:2021 EN 61347-2-13:2014+A1:2017 800-1920W Package Safety standard Load power Radio Equipment(RED) L135xW40xH23mm Warranty ETSI EN 300 328 V2.2.2 Size 5 years 0.095kg Certification CE, EMC, LVD, RED Warrantv Gross weight

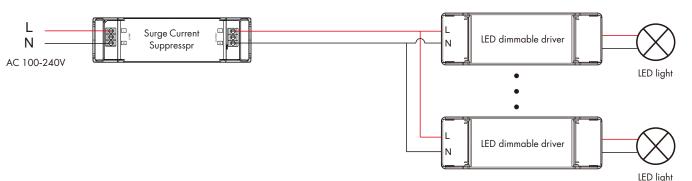
Mechanical Structures and Installations



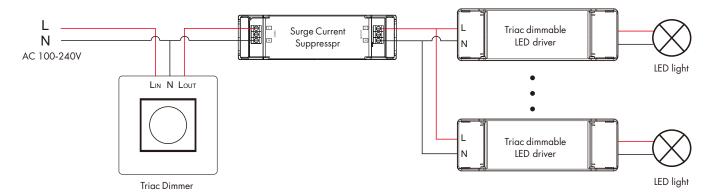


Wiring diagram

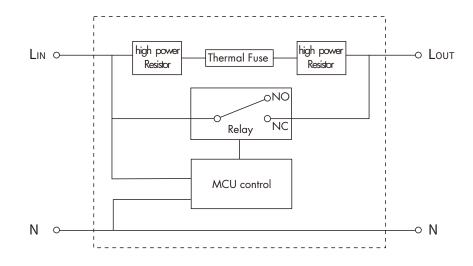
1. Surge current suppressor connect with one or more LED dimmable drivers



2. Surge current suppressors for use in series with triac dimmers to connect one or more triac dimmable LED drivers



Note: It is recommended that the total power of the connected LED dimmable drivers or LED dimmable luminaires load does not exceed 1920W and the total working current does not exceed 8A.



The moment the product is powered up, two 7.5 Ω high power resistors are connected in series between LIN and LOUT to reduce the load power-on surge current. After about 40ms, the relay switch will be engaged and the LIN and LOUT will go through.

Surge current formula: I surge = U/ (U/I original surge + R)

When the AC voltage is 220V, the peak voltage U is $220 \times 1.414 = 311V$, if the original surge current is 100A. $I_{surge} = 311/(311/100+15) = 17.2A$

That is, after using the surge current suppressor, the surge current drops to 17.2A.

The internal thermal fuse provides thermal protection in case of MCU control or relay switching failure.