

Telpower® Fused Disconnect Switch

DC Distribution/Protection System - Rear Access

TP15900-4



SYSTEM: TP15900-4 Fused Disconnect Switch and TPA Series Fuses

CATALOG SYMBOL: TP15900-4

ELECTRICAL RATING: 4-poles, 40A per pole at 145V DC
50A per pole at 80V DC

APPROVALS:

U.L. recognized as a disconnect switch for interruption of load current by means of withdrawing the fuse carrier.

U.L. recognized as a component for telecommunication power distribution equipment (U.L. category QPQY2).

U.L. recognized fuses for branch circuit protection.

C.S.A. component acceptance for the system.

FUSE TYPE:

Fuse Type	TPA	TPA-B
Current	3, 5, 10, 15, 20, 25, 30, 40, 50	20, 25
Voltage	170V DC	65V DC
Interrupting	100 kA	20 kA

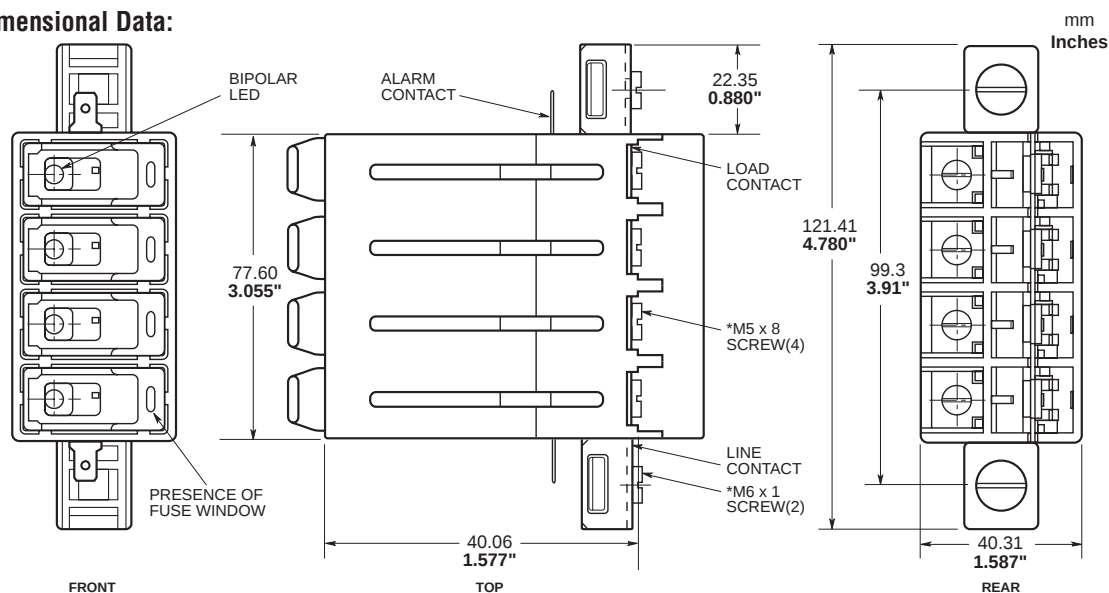
UL Recognized Guide JFHR2, File E56412,

CSA Certified Class 1422-30, File 53787

FEATURES:

- Recognized branch circuit protection device.
- Modular design - 4 poles per module.
- Ease of installation-Connection directly to bus bar.
- Eliminates external wiring per pole.
- LED alarm signaling (LED current 30mA max.).
- Blown fuse indication.
- Alarm test probe point, to allow on-site checking of alarm circuitry.
- Standard 0.25" QC terminal for alarm circuit connections.
- Bi-polar LED provides capability for both -48V DC and +24V DC applications.
- Fuse presence indication.
- Fuse orientation rejection feature.
- Rear accessibility for line and load terminations.
- Totally enclosed module - no moving parts.
- Material: U.L. rated 94V-0, 140°C rated.

Dimensional Data:



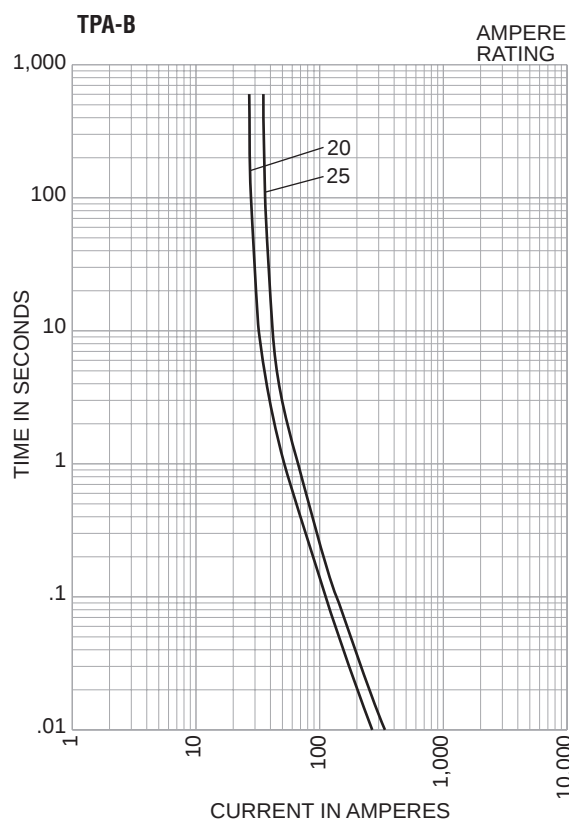
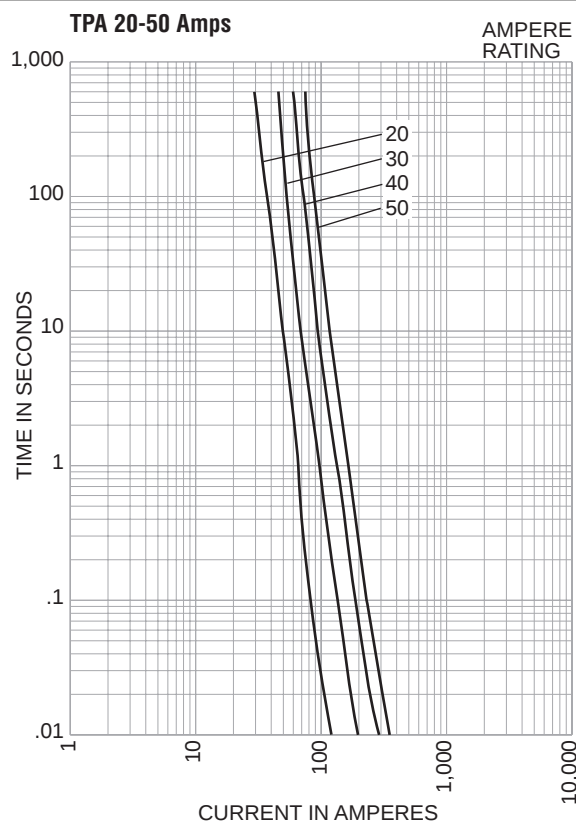
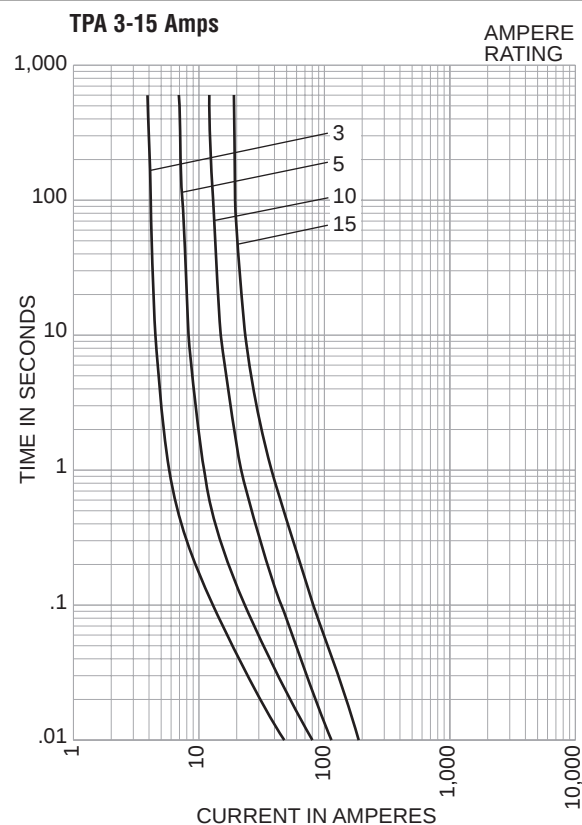
*Recommended screw size (not Included).

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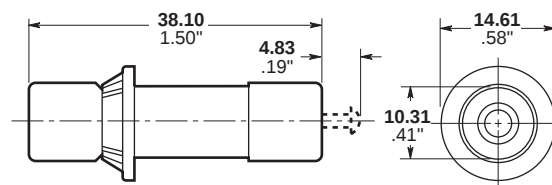
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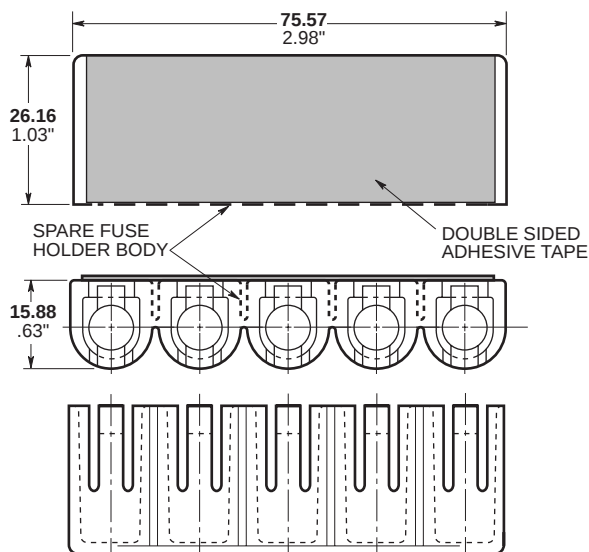
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Dimensional Data for TPA Fuses



Five Position Spare Fuseholder Part No. 5TPH



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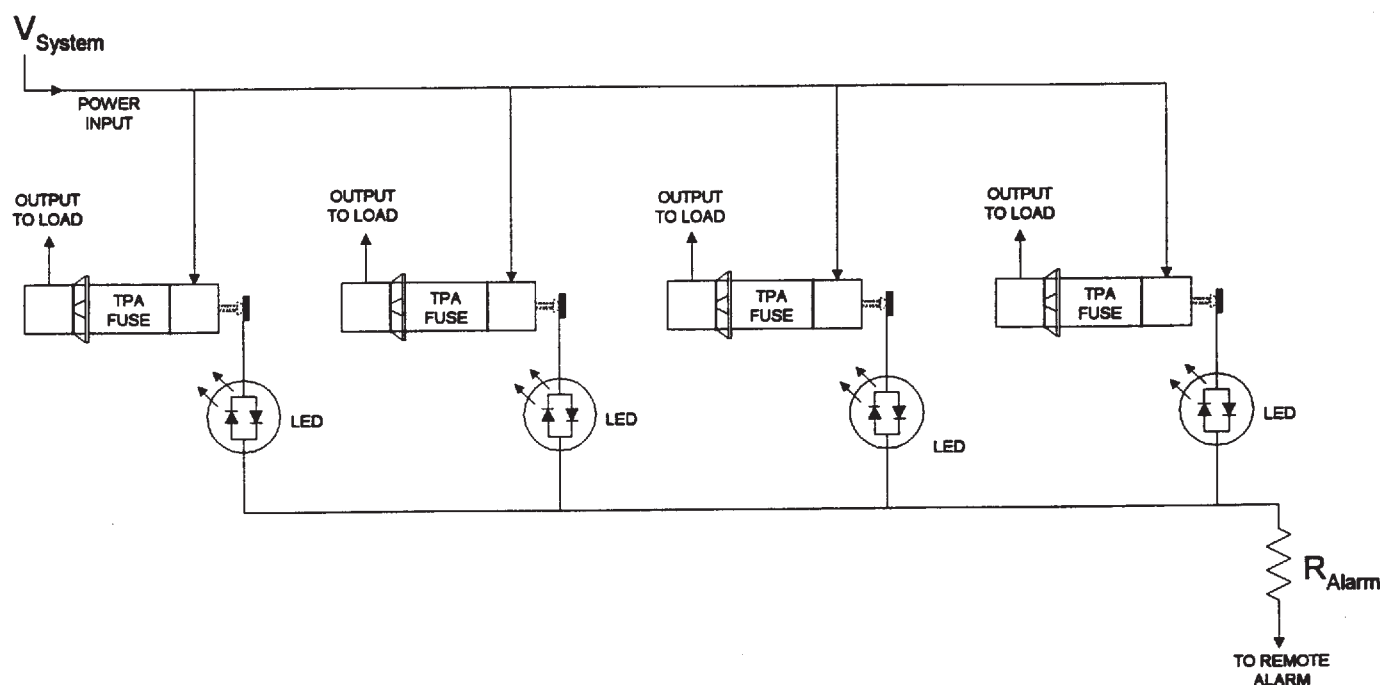
Proper sizing of the current limiting resistor, referred to as R_{ALARM} in the diagram below, is essential to prevent excessive current, which could cause damage to the LED in the disconnect head, from passing through the remote alarm circuit. Because the LED is in series with the remote alarm circuit, the maximum available alarm circuit current should be limited to no more than 30 mA. This is the maximum sustained current that can be tolerated by the LED. It is important to note that when calculating the size of the resistor, the number of circuits in parallel on the remote alarm circuit is irrelevant. The resistor value should always be calculated assuming that the total available alarm circuit current is conducted through a single LED. This will insure that the 30 mA limitation is not exceeded. The calculations required to determine both the resistance and the wattage rating of R_{ALARM} are shown below.

By calculating the minimum value of R_{ALARM} as described above, the maximum available remote alarm circuit current will not exceed 30 mA. In the event of multiple fuse blows, where the fuses are connected in parallel on the same remote alarm bus, the total available remote alarm circuit current will be evenly divided between each of the LED's. For example, if three fuses blow, each LED, indicating the presence of a blown fuse, will conduct approximately 10 mA each, assuming the total available remote alarm circuit current is 30mA.

METHOD FOR CALCULATING THE MINIMUM SERIES RESISTANCE VALUE NECESSARY TO LIMIT THE AVAILABLE ALARM CIRCUIT CURRENT TO $\leq 30\text{mA}$. THE MINIMUM RESISTOR WATTAGE CALCULATIONS IS ALSO SHOWN.

$$R_{ALARM} = \frac{V_{SYSTEM}}{I_{LED}} \quad (\text{where } I_{LED} = 30 \text{ mA max.})$$

$$P_{RALARM} = (V_{SYSTEM})(I_{LED}) \quad (\text{where } I_{LED} = 30 \text{ mA max.})$$





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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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