WMS — Supplementary Protector

Single-Pole

2-Pole

3-Pole

Product Description

- Dual standard breaker:
  - Recognized by UL and CSA under UL 1077 and CSA 22.2
  - Third-party approved by KEMA according to IEC 898
- CE marked in accordance with Low Voltage Directive (LVD) (73/23/EEC).
- Used to provide overcurrent protection where branch protection (for example UL 489 MCCB) is already provided or not required.
- Installed as a component within or part of an appliance or a piece of electrical equipment.
- Ideal replacement for fuses that are applied as a supplementary protector, i.e., in addition to branch protection (if required).
- 35 mm DIN-rail mountable, utilizing metallic "extra strength" spring clip.
- Light gray case with gray handle, that is marked "O" for OFF and "I" for ON.
- UL File Number E162396.
- CSA File Number LR105508-2.

Application Description

Cutler-Hammer Supplementary Protectors are ideal for providing protection in a multitude of applications, including:

- Motor control circuits.
- Control power transformers.
- Relays.
- Contactor coils.
- PLC I/O points.
- Lighting circuits.

Features, Benefits and Functions

- Current limiting design provides fast short circuit interruption that reduces the let-through energy which can damage the circuit.
- Thermal-magnetic overcurrent protection:
  - Three levels, categorized by B, C and D curves
  - In direct relation to continuous rating of device
    - **B Curve — 3 to 5X**: Suited for applications where maximum protection is required for control circuits from low level short circuit faults that could damage the wiring.
    - **C Curve — 5 to 10X**: Is positioned for medium inrush startup currents, to provide protection for small transformers, pilot devices, etc.
    - **D Curve — 10 to 20X**: Provides a magnetic range to allow for higher inrush levels during startup, that are usually seen with motors, transformers and other high inductive systems.
- Color-coded status indicator window — Red = ON or Green = OFF.
- IP20 finger protection.
- Provision for dual connection — line and load:
  - Fork or pin bus bars
  - Cable direct into terminal
  - Cable utilizing Ring Tung connector
- 35 mm DIN-rail mountable, utilizing "extra strength" spring clip.

Features, Benefits and Functions (Continued)

Field-Mountable Accessories

- Quick 3-step process.
- *No* tools required.
- Auxiliary switch.
- Combined auxiliary switch and bell alarm.
- Shunt trip.
- Undervoltage release.
- Fork and pin bus bar combs:
  - Standards
    - IEC 60947-1
    - UL 1077
  - Marking
    - cULus CE
  - Length
    - Short — 12 circuit
    - Long — 1 meter
  - Configurations include device only plus device with 1/2 module auxiliary or alarm switch
  - UL/CSA File Number E197132
  - Insulated bus bar
  - Two caps supplied as standard with all 2- and 3-phase bus bars. Additional caps available as an accessory
  - Single pack

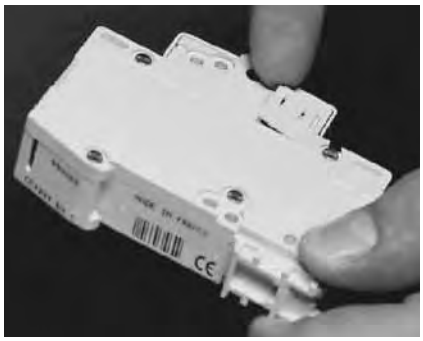
Standards and Certifications

- UL recognized under UL 1077.
- CSA 22.2.
- IEC 898.
- IEC 60947-2.

Accessory "Quick 3-Step" Field Mounting

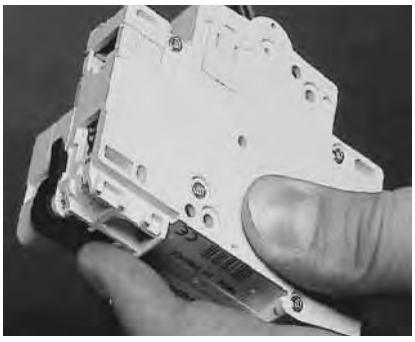
Three Steps to fitting any of the side mounted accessories. No tools required.

Before you do this, you should make sure the device is in the OFF position — check the handle position and flag indicator.



Step One — Remove Left-Hand "Accessory Window"

Step Two — Place the Accessory's Clip into the Device's Positioning Groove



Step Three — Push the Blue Pivot Clip Up, and Snap into Place

Product Specifications

The WMS Supplementary Protector is a dual-rated product for both ac and dc supplies, in accordance with UL 1077, CSA 22.2 and IEC 898 standards and is marked with CE in accordance with the Low Voltage Directive. With this dual standard product, the customer can include it within their design, knowing that, in the vast majority of cases wherever their equipment is used, the product is in line with the local UL, CSA or IEC (European) requirements. This is very important as the different areas of the world market draw closer together and the need for breakers that meet different standards is a common, everyday occurrence.

It is to be applied in conjunction with a branch protector (if branch protection is required) and can be a replacement for similarly applied fuses. Its advantage over fuses is that it is resettable and the device's status is easily and clearly identified by the position of the handle and the flag indicator.

In addition to this, the user is able to select a device that provides maximum reliability and accuracy to fit their various applications (of which there are many) due to the availability of a wide range of current ratings from 0.5 to 60 amperes and three different overcurrent characteristic curves, B, C and D. With easy mounting of the device on a 35 mm DIN-rail and also the "Quick 3 Step" field mountable accessories, it is now easier for the customer to select and apply this modular range. In addition, utilizing the bus bar comb to connect multiple devices from a single power source, saves time as multiple wire connections are no longer required. Due to the smaller modular width of the device and accessories, it enables them to save space in their panel or equipment — which directly leads to cost savings!