

# USCC & USM

UltraSafe™ Fuse Holders

## FUSE BLOCKS & HOLDERS

## ULTRASAFE MODULAR FUSE HOLDERS FOR MIDGET AND CLASS CC FUSES



FB

Mersen UltraSafe Modular Fuse holders introduce a new level of safety for Class CC (USCC) and Midget 1-1/2" x 13/32" (USM) AC and DC-rated fuses up to 30 amperes. UltraSafe holders qualify as "Finger-safe" under IEC and DIN standards to an IP20 grade of protection, including fuse changing (with the flick of a finger). UltraSafe holders are available in 1, 2, 3 or 4 poles, with or without visual blown-fuse indicators in each pole. Multi-pole units can also be field assembled by ordering pin-tie handles.

UltraSafe holders save up to 15% mounting space and any combination can be snapped onto 35mm DIN-rail for extra savings in panel building time. UltraSafe holders with Class CC fuses chosen for Type "2" No Damage protection give one of the safest protection packages in the industry. UltraSafe body material is tough and durable polyamide, with exceptional insulating properties.

### APPLICATIONS:

- All circuits up to 600 volts for motors, control circuits, transformers, etc...
- DC circuits up to 1000VDC including photovoltaic applications
- Non-load disconnect

### RECOMMENDED FUSE USAGE:

- **USM use with:** ATQ, ATM\*, A6Y-2B, A25Z-2, TRM, OTM, A13X-2, A60Q-2, DCT\*, HP6M, HP10M
- **USCC use with:** ATDR, ATMR\*, ATQR

\* Recommended for DC applications

### RATINGS:

#### USM (Midget 10x38mm Fuses)

- **Volts:** 800VAC Maximum, 1000VDC Maximum
- **Amps:** 30A Maximum
- **SCCR:** 200kA AC, 100kA DC

#### USCC (Class CC Fuses)

- **Volts:** 600VAC/DC Maximum
- **Amps:** 30A Maximum
- **SCCR:** 200kA

*Min. voltage to operate indicator light:  
90VAC, 115VDC [Less than 0.7 mA leakage  
current at 600V]*

*USM1HEL minimum indicator operating  
voltage: 350VDC*

### HIGHLIGHTS:

- IP20 Finger-Safe (touch safe)
- Optional visual blown fuse Indicator lights
- DIN-rail mounting
- Compact footprint
- Quick, tool-free, easy fuse change outs

### APPROVALS:

- UL Listed to Standard 4248-4 (class CC) and 4248-1 (midget), File E52283
- UL Listed to standard 4248-18 (photovoltaic), File E347822
- CSA Certified C22.2
- IEC 60269-2-1 and 60947-3 Compliant (USM only)



ADDITIONAL SPECIFICATIONS:

- **Terminal screws:** Phillips/slot head
- **Suggested screw torque:** 14.75 in-lbs.
- **Wire range:** #14 to 6 AWG (2.5 to 16mm<sup>2</sup>) single conductor; #14 to 10 AWG (2.5 to 5.0 mm<sup>2</sup>) dual conductor
- **Wire type:** 60/75/90°C solid/stranded copper
- **Connector type:** Pressure plate
- **Load-break disconnect:** No
- **Environmental:** RoHS compliant, lead free
- **Operating temperature:** -40° to 85°C
- **Watts loss:** 3W or less
- **Flammability rating:** UL 94-V0
- **Optional Blown Fuse Indicator Lens Color:** Red

CATALOG NUMBERS:

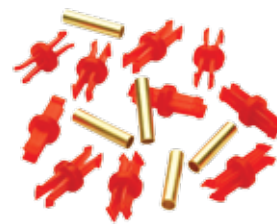
| Fuse Type                                     | Ampere Rating          | Voltage Rating |      | Visual Indication | No. of Poles | Catalog Number |
|---|------------------------|----------------|------|-------------------|--------------|----------------|
|   |                        | AC             | DC   |                   |              |                |
| Class CC                                      | 30                     | 600            | 600  | No                | 1            | USCC1          |
|   | 30                     | 600            | 600  | No                | 2            | USCC2          |
|   | 30                     | 600            | 600  | No                | 3            | USCC3          |
|   | 30                     | 600            | 600  | No                | 4            | USCC4          |
|   | 30                     | 600            | 600  | No                | 3+N          | USCC3N         |
|   | 30                     | 600            | 600  | Yes               | 1            | USCC1I         |
|   | 30                     | 600            | 600  | Yes               | 2            | USCC2I         |
|   | 30                     | 600            | 600  | Yes               | 3            | USCC3I         |
|   | 30                     | 600            | 600  | Yes               | 4            | USCC4I         |
|   | 30                     | 600            | 600  | Yes               | 3+N          | USCC3IN        |
|   | 30                     | 120            | -    | Yes               | 1            | USCC1I-AC120   |
|   | 30                     | 300            | -    | Yes               | 1            | USCC1I-AC300   |
|   | 30                     | -              | 24   | Yes               | 1            | USCC1I-DC24    |
| Midget<br>(10 x 38mm)<br>(1-1/2" x<br>13/32") | 30                     | 800            | 1000 | No                | 1            | USM1           |
|   | 30                     | 800            | 1000 | No                | 2            | USM2           |
|   | 30                     | 800            | 1000 | No                | 3            | USM3           |
|   | 30                     | 800            | 1000 | No                | 4            | USM4           |
|   | 30                     | 800            | 1000 | No                | 3+N          | USM3N          |
|   | 30                     | 600            | 600  | Yes               | 1            | USM1I          |
|   | 30                     | 600            | 600  | Yes               | 2            | USM2I          |
|   | 30                     | 600            | 600  | Yes               | 3            | USM3I          |
|   | 30                     | 600            | 600  | Yes               | 4            | USM4I          |
|   | 30                     | 600            | 600  | Yes               | 3+N          | USM3IN         |
|   | 30                     | 120            | -    | Yes               | 1            | USM1I-AC120    |
|   | 30                     | -              | 24   | Yes               | 1            | USM1I-DC24     |
|   | Photovoltaic<br>Midget | 32             | -    | 1000              | No           | 1              |
| 32  |                        | -              | 1000 | Yes               | 1            | USM1IHEL       |

CATALOG NUMBERS—  
ACCESSORIES:

| Accessories Catalog No. | Description                       |
|-------------------------|-----------------------------------|
| USN                     | 1-Pole with Integral Neutral Link |
| USPTH                   | Pin-tie Accessory for 12-Poles    |

DIMENSIONS

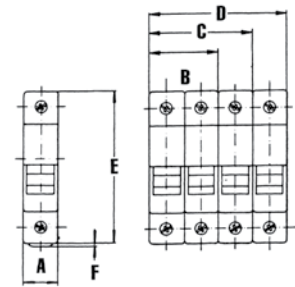
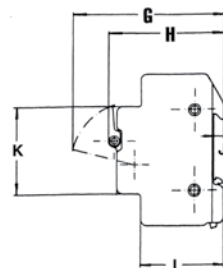
| Dimension | mm   | In   | Dimension | mm   | In   |
|-----------|------|------|-----------|------|------|
| A         | 17.5 | 0.69 | G         | 78.0 | 3.07 |
| B         | 35.0 | 1.38 | H         | 59.0 | 2.32 |
| C         | 52.5 | 2.07 | I         | 42.5 | 1.67 |
| D         | 70.0 | 2.76 | J         | 5.0  | 0.20 |
| E         | 78.0 | 3.07 | K         | 45.0 | 1.77 |
| F         | 2.5  | 0.10 |           |      |      |



USPTH Pin-Tie Accessory



USM1 with USPTH Pin-Ties



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IEC Ratings for USM: 690VAC / 1000VDC, 32A, 50kA SCCR

CSA Ratings for USM: 750VAC / 1000VDC, 30A