

# USFM UltraSafe™ Fuse Modules

## UltraSafe 3-pole fuse modules for midget and class CC fuses

Mersen UltraSafe™ Fuse Modules have a unique, compact design suited for use with 45mm wide IEC contactors. These modules also offer other features not found on other Class CC and midget UltraSafe fuse holders such as an auxiliary contact option. When the auxiliary is wired to an adjacent contactor the load is dropped out by the contactor immediately once someone tries to open the fuse extractor handle. Additionally, the fuse module features padlock capabilities, compact busbars for line side terminations, and tool free removal from DIN-rail. Yet the fuse modules still incorporate well known UltraSafe features such as IP20 protection, easy operating fuse extraction handles and an open fuse visual indication option.

### Highlights:

- Dedicated 3-pole fuse module
- Finger-safe
- Compact footprint with 45mm width
- Auxiliary contact option (1NO/1NC)
- Ability to padlock in OPEN position with 1/4" shank diameter
- DIN-rail mount with tool free removal
- Quick, easy fuse change
- Optional indicator lights

### Recommended Fuse Usage:

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

\* Recommended for DC applications

### Applications:

- Primarily for motor circuits to replace circuit breakers for higher SCCR ratings
- Other circuits up to 600 volts for control circuits, transformers, etc.
- Non-load disconnect
- Padlock compliance



### Ratings:

#### USFMCC (Class CC Fuses)

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

#### USFM10 (Midget 10x38mm Fuses)

**Volts** : 600VAC / DC  
**Amps** : 30A Maximum  
**SCCR** : 100kA

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

### Approvals:

#### USFMCC (Class CC Fuses)

- UL Listed, guide IZLT, File E52283
- CSA Certified C22.2, class 6225 01, File 32169

#### USFM10 (Midget 10x38mm Fuses)

- UL Recognized Component, guide IZLT2, File E52283
- CSA Certified C22.2, Class 6225 01, File 32169
- IEC Certified 60269-1, 60947-3 (690VAC, 32A, 120kA)



**MERSEN**

# USFM UltraSafe™ Fuse Modules

## Catalog Numbers and Descriptions:

### For use with Class CC Fuses

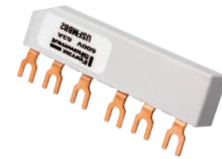
Catalog No.	Description
USFMCC	3 pole fuse module
USFMCCI	3 pole fuse module with indicators
USFMCCM	3 pole fuse module with microswitch style auxiliary contact
USFMCCMI	3 pole fuse module with microswitch style auxiliary contact and indicators



USFMAC11

### For use with Midget and 10x38mm UL and IEC Fuses

Catalog No.	Description
USFM10	3 pole fuse module
USFM10I	3 pole fuse module with indicators
USFM10M	3 pole fuse module with microswitch style auxiliary contact
USFM10MI	3 pole fuse module with microswitch style auxiliary contact and indicators



USFMBB2

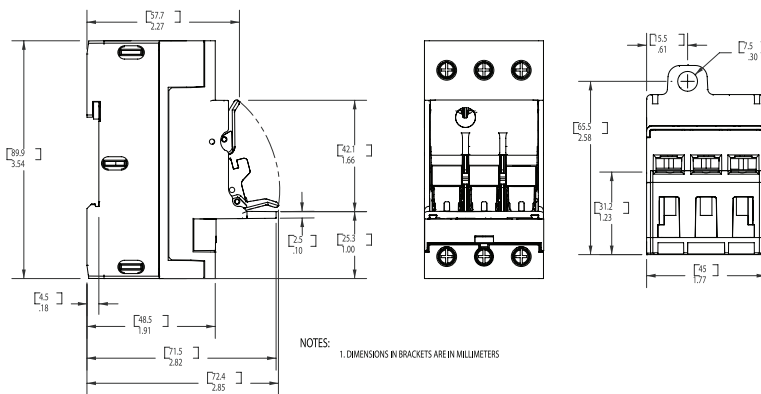
## Accessories

Catalog No.	Description
USFMAC11	1NO (late make)/NC (early break) auxiliary contact
USFMBB2	Busbar to connect 2 modules together
USFMBB3	Busbar to connect 3 modules together
USFMBB4	Busbar to connect 4 modules together
USFMBB5	Busbar to connect 5 modules together
USFMBBC1	Busbar connector terminal



USFMBBC1

## Dimensions



NOTES:  
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS

## Additional specifications:

- Terminal screws: Pozidriv#2
- Suggested screw torque: 13 Lbs-in (1.5 N-m)
- Connector type: Pressure plate
- Wire range: #10 to #16 AWG (1-4 mm<sup>2</sup>)
- 75°C solid/stranded Cu only

Load-break disconnect: No (when auxiliary contact is installed in fuse module and properly wired to adjacent IEC contactor the load will be dropped out prior to disconnection between fuse and clip inside holder upon operation of the fuse extractor handle).