

USCC & USM UltraSafe™ Fuseholders

UltraSafe modular fuseholders for midget and class CC fuses

Mersen UltraSafe Modular Fuseholders 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.

Highlights:

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

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

Additional Specifications:

Terminal screws: Phillips/slot head

Suggested screw torque: 14.75 in-lbs.

Wire range: #14 to 6 AWG (2.5 to 16mm²) single conductor
: #14 to 10 AWG (2.5 to 5.0 mm²) dual conductor

Wire type: 60/75/90°C solid/stranded copper

Connector type: Pressure plate

Load-break disconnect: No

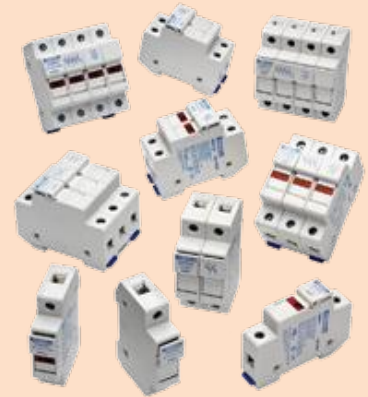
Environmental: RoHS compliant, lead free

Operating temperature: -40° to 85°C

Watts loss: 3W or less

Flammability rating: UL 94-V0

Optional Blown Fuse Indicator Lens Color: Red



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]

USM11HEL minimum indicator operating voltage: 350VDC

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)



MERSEN

USCC & USM UltraSafe™ Fuseholders

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 (10 x 38mm) (1-1/2" x 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	32	-	1000	No	1
Midget	32	-	1000	Yes	1	USM1HEL

IEC Ratings for USM: 690VAC / 1000VDC, 32A, 50kA SCCR
 CSA Ratings for USM: 750VAC / 1000VDC, 30A

Catalog Numbers—Accessories:

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



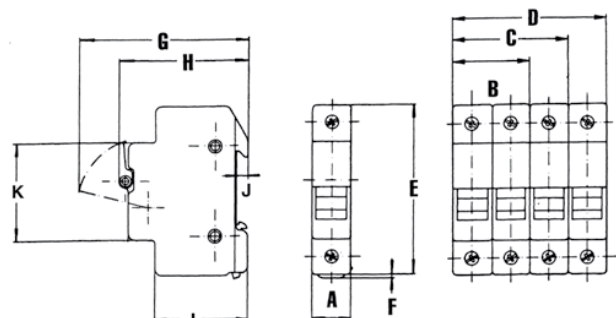
USPTH Pin-Tie Accessory



USM1 with USPTH Pin-Ties

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			



For the most current product performance data visit ep.mersen.com and use catalog search.

HP10M 1000VDC

Midget (10x38mm) Photovoltaic Fuses

Engineered to Protect Photovoltaic Applications

Protect your off-grid or grid-tied PV system from unexpected ground-faults and line-faults using Mersen's HeliProtection® HP10M photovoltaic (PV) fuse series. Engineered and designed for the protection of photovoltaic systems, its enhanced fuse construction makes it ideal for continuous temperature and current cycling withstand adding to system longevity. The 1000VDC rated fuse is designed for low minimum breaking capacity capabilities of 1.35 times the fuse rated current value, allowing for safe circuit interruption under typical low fault current conditions produced by PV arrays.



Catalog Numbers (amps)

HP10M1	HP10M8
HP10M2	HP10M10
HP10M3	HP10M12
HP10M4	HP10M15
HP10M5	HP10M20
HP10M6	HP10M25
HP10M7	HP10M30

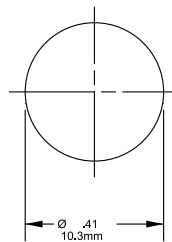
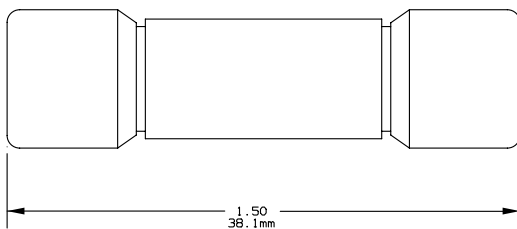
Catalog Numbers - Fuseholder

	UltraSafe™ Non-Indicating	UltraSafe™ Indicating
Screw Type	USM1HEL	USM1IHEL
Spring Type	USGM1HEL	USGM1IHEL

For full details on recommended fuseholders, see page 10.



Dimensions



Ratings:

Volts : 1000VDC
Amps : 1 to 30A
IR : 10kA I.R. DC
MBC : 1.35 x I_n
 Photovoltaic Fuse, gPV

Approvals:

- UL Listed to Standard UL2579 File E333668
- CSA Component Certified C22.2 LR12636
- IEC 60269-6 Approved

