Modulostar® CMS10

Modular fuse-holders

IEC Cylindrical Fuse Holders

The innovative and comprehensive Modulostar® range of Mersen fuse-holders. Modular fuse-holders are finger-safe under IEC standards to an IP20 grade of protection, including fuse changing (with the flick of a finger). Modular fuse-holders are available in 1, 2, 3 or 4 poles, with or without visual blown fuse indicator, in IEC version or IEC + UL version. Multi-pole units can also be field assembled by ordering pin-ties assembly kit. In size 14 or 22, the range also offers the possibility to use microswitches (supplied with the holders or ordered separately) to allow remote indication. Modulostar® range is made of tough and durable thermoplastic or thermoset material.

Features Benefits

- Finger safe
- Degree of protection: IP20
- Optional visual blown fuse indicator
- DIN rail mounting
- Modular design
- Lockable
- Multi-pole assembly kit available
- Sealable in closed and open position
- Plastic material UL94V2 mini
- Flame retardant materials with glow wire flammability index to 960°C

Applications

- All circuits up to 690V for protection of motors, transformers, low voltage distribution, control circuits, drive protection
- Non-load operation

Technical data overview

Volt	690 VAC
Volt (VDC)	690 VDC
Amper (A)	32 A
Product Size	For cylindrical fuse links 10.3x38.1 AM, gG and 10.3x38 Mersen Protistor and HP6M fuse-links
Mounting	Installation on to DIN rails to EN 60715
SCCR	200kA
Number of Poles	1 to 4 poles

Standards

IEC 60269-2 and IEC 60947-3 Compliance

RoHS Compliant

Plastic material: NF 16101 & 16102 Requirement 2 Compliant

Shock and vibration tested for marine and railway applications

Product range


CMS101


CMS102


CMS103


CMS103N

Modulostar® fuse-holders for 10,3x38,1 fuse-links, without indicator

Catalog number	Reference number	Number of poles/ phases	Design	Weight	Package
CMS101	T305020	1	CMS10 single pole	61.3 g	12
CMS101N	V305021	1 + N	CMS10 single pole + neutral conductor	131.6 g	6
CMS102	W305022	2	CMS10 double pole	121.6 g	6
CMS103	X305023	3	CMS10 triple pole	197.5 g	4
CMS103N	Y305024	3 + N	CMS10 triple pole + neutral conductor	263.3 g	3
CMS104	Z305025	4	CMS10 quadruple pole	243.3 g	3


CMS101I

Modulostar® fuse-holders for 10,3x38,1 fuse-links, with indicator

Catalog number	Reference number	Number of poles/ phases	Design	Weight	Package
CMS101I	A305026	1	CMS10 single pole	60.8 g	12
CMS101NI	B305027	1 + N	CMS10 single pole + neutral conductor	131.6 g	6
CMS102I	C305028	2	CMS10 double pole	121.6 g	6
CMS103I	D305029	3	CMS10 triple pole	182.5 g	4
CMS103NI	E305030	3 + N	CMS10 triple pole + neutral conductor	263.3 g	3
CMS104I	F305031	4	CMS10 quadruple pole	243.3 g	3

Technical Data

	CMS10	CMS10I
Size	10x38	10x38
Number of poles/phases	1, 1+N, 2, 3, 3+N, 4	1, 1+N, 2, 3, 3+N, 4
Conventional free air thermal current with fuse links I_{th}	32 A	32 A
Power dissipation at I_{th}	3 W	3 W
Utilisation category	AC20B/DC20B	AC20B/DC20B
Rated insulation voltage U_i	690 V	690 V
SCCR	200 kA	200 kA
Rated impulse withstand voltage U_{imp}	6 kV	6 kV
Degree of protection	IP 20	IP 20
Voltage limit for blown fuse indicator	-	230 to 690V AC/DC
Indication System	-	with indicator
Connection	Max. tightening torque: 2.2Nm (19lbs.-in) Rigid wire = 1-16mm² (16-6AWG) Multistrand wire = 0.75-10mm² (18-8AWG) PZ2 or flat 5.5x1mm screw drivers recommended (max. diameter 6mm)	Max. tightening torque: 2.2Nm (19lbs.-in) Rigid wire = 1-16mm² (16-6AWG) Multistrand wire = 0.75-10mm² (18-8AWG) PZ2 or flat 5.5x1mm screw drivers recommended (max. diameter 6mm)
Operating temperature	-25°C to 60°C	-25°C to 60°C
Storage temperature	-25°C to 80°C	-25°C to 80°C
Vibration	Withstand on the 3 main axis*: Sinusoidal vibration testing according to IEC 60068-2-6 2 to 13Hz x= 1 mm peak 13 to 100Hz y= 0.7g peak according to french marine application Random vibration testing according to IEC 61373 Category 1 Class B	Withstand on the 3 main axis*: Sinusoidal vibration testing according to IEC 60068-2-6 2 to 13Hz x= 1 mm peak 13 to 100Hz y= 0.7g peak according to french marine application Random vibration testing according to IEC 61373 Category 1 Class B
Shock	Shock testing according to IEC 61373 Category 1 Class B Shock testing according to IEC 60068-2-27 15g/11ms/18 shocks * for specific usage please contact us	Shock testing according to IEC 61373 Category 1 Class B Shock testing according to IEC 60068-2-27 15g/11ms/18 shocks * for specific usage please contact us

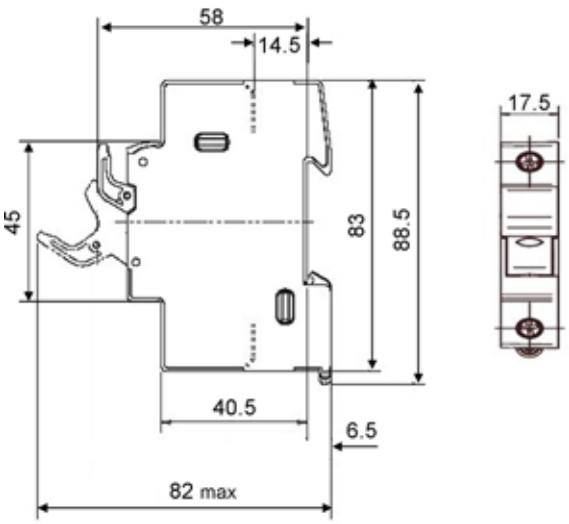
Specific usage conditions

Ambient temperature	>20°C	30°C	40°C	50°C	60°C
Derating factor (I_e)	1	0.95	0.9	0.8	0.7

No of poles (side by side)	1 to 3	>/= 4
Derating factor of current (I_{th})	1	0.9

Nominal current of fuse-link gR	20 A	25 A	30 A	32 A
Max. operational current in fuse-holder	19 A	22 A	25 A	27 A
Cable wire section	2.5 mm²	4 mm²	6 mm²	6 mm²

Dimensions



Accessories

CMS8010PAK + fuse-holder

Kit for multi phase connection

Catalog number	Design	Package
CMS810PAK	links for connection of multipole units	12

LOCK

TAGLOCKCMS810

Locking devices

Catalog number	Design	Package
LOCK	Padlock	1
TAGLOCKCMS810	Locking kit (Tag and lockout)	1

TBB1A

TBB1C

TBB23A

TBB23C

Power supply

Catalog number	Application	Design	Package
TBB1A	max. rms current 90A	1 phase axial incoming power supply	50
TBB1C	max. rms current 90A	1 phase lateral incoming power supply	50
TBB23A	max. rms current 90A	2 & 3 phases axial incoming power supply	50
TBB23C	max. rms current 90A	2 & 3 phases lateral incoming power supply	50

Accessories

CMS810BB4F3

CMS810BB3F4

CMS810BB2F6

CMS810BB1F13

Wiring bars / Insulated bus bars

Catalog number	Application	Design	Package
CMS810BB4F3	Max. rms current 100A, for installation of 3 modules	quadruple pole, 10 mm², partition 17,5 mm (distance of poles), peg design, L-shaped	10
CMS810BB3F4	Max. rms current 100A, for installation of 4 modules	triple pole, 10 mm², partition 17,5 mm (distance of poles), peg design, L-shaped	10
CMS810BB2F6	Max. rms current 63A, for installation of 6 modules	double pole, 10 mm², partition 17,5 mm (distance of poles), peg design, L-shaped	10
CMS810BB1F13	Max. rms current 63A, for installation of 13 modules	single pole, 10 mm², partition 17,5 mm (distance of poles), peg design, L-shaped	10