

Modulostar® CMS8

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 500V for protection of motors, transformers, low voltage distribution, control circuits
- Non-load operation

Technical data overview

Voltage AC	500 VAC
Voltage DC	500 VDC
Amper (A)	25 A
Mounting	Installation on to DIN rails to EN 60715
Product Size	For cylindrical fuse links 8.5x31.5 AM, gG
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



CMS81



CMS82



CMS83



CMS83N



CMS81I



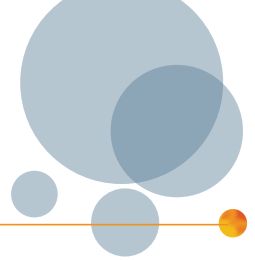
CMS83NI

Modulostar® fuse-holders for 8.5x31.5 fuse-links, without indicator

Catalog number	Reference number	Number of poles/ phases	Design	Weight	Package
CMS810N	D305006	N	CMS8 neutral conductor	65.8 g	12
CMS81	X305000	1	CMS8 single pole	60.8 g	12
CMS81N	Y305001	1 + N	CMS8 single pole + neutral conductor	70 g	6
CMS82	Z305002	2	CMS8 double pole	121.6 g	6
CMS83	A305003	3	CMS8 triple pole	182.5 g	4
CMS83N	B305004	3 + N	CMS8 triple pole + neutral conductor	263.3 g	3
CMS84	C305005	4	CMS8 quadruple pole	243.3 g	3

Modulostar® fuse-holders for 8.5x31.5 fuse-links, with indicator

Catalog number	Reference number	Number of poles/ phases	Design	Weight	Package
CMS81I	E305007	1	CMS8 single pole	60.8 g	12
CMS81NI	F305008	1 + N	CMS8 single pole + neutral conductor	131.6 g	12
CMS82I	G305009	2	CMS8 double pole	121.6 g	6
CMS83I	H305010	3	CMS8 triple pole	182.5 g	6
CMS83NI	J305011	3 + N	CMS8 triple pole + neutral conductor	163.3 g	4
CMS84I	K305012	4	CMS8 quadruple pole	243.3 g	3



Technical Data

	CMS8	CMS8I
Size	8.5 x 31.5	8.5 x 31.5
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}	25 A	25 A
Power dissipation at I_{th}	2.5 W	2.5 W
Utilisation category	AC20B/DC20B	AC20B/DC20B
Rated insulation voltage U_i	500 V	500 V
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 = 1-16mm ² (16-6AWG) Multistrand wire = 0.75-10mm ² (18-8AWG) PZ2 or flat 5.5x1mm screw drivers recommended (max. diameter 6mm)	Max. tightening torque: 2.2Nm (19lbs.-in) Rigid wire = 1-16mm ² (16-6AWG) Multistrand wire = 0.75-10mm ² (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 60068-2-27 15g/11ms/18 shocks Shock testing according to IEC 61373 Category 1 Class B * for specific usage please contact us	Shock testing according to IEC 60068-2-27 15g/11ms/18 shocks Shock testing according to IEC 61373 Category 1 Class B * for specific usage please contact us

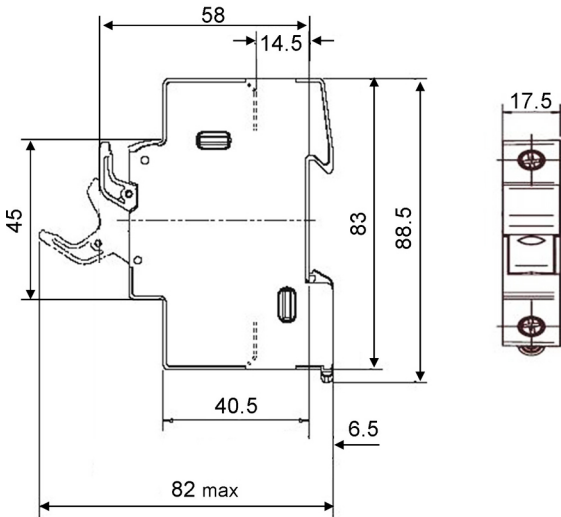
Specific usage conditions

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

Dimensions

Modulostar® CMS8 fuse-holders for cylindrical fuse-links class 8.5x31.5mm



Dimensions in mm

Accessories



CMS8010PAK + fuse-holder

Kit for multi phase connection

Catalog number	Reference number	Description	Weight kg ¹⁾	Package
CMS810PAK	Z233725	Links for connection of multipole units	0,00058	12



TAGLOCKCMS810

LOCK

Locking devices

Catalog number	Reference number	Description	Weight kg ¹⁾	Package
TAGLOCKCMS810	A235773	Locking kit (Tag and lockout)	0.009	1
LOCK	M223525	Padlock	0.042	1

1) weight in kg per piece or set including package

Accessories



TBB1A



TBB1C



TBB23A



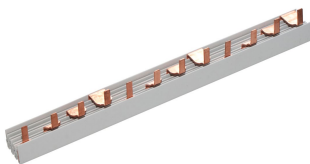
TBB23C

Power supply

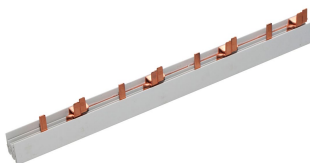
Catalog number	Reference number	Description	Application	Weight kg ¹⁾	Package
TBB1A	D210315	1 phase axial incoming power supply	Max. rms current 90A	0.010	50
TBB1C	E210316	1 phase lateral incoming power supply	Max. rms current 90A	0.010	50
TBB23A	F210317	2 & 3 phases axial incoming power supply	Max. rms current 90A	0.023	50
TBB23C	G210318	2 & 3 phases lateral incoming power supply	Max. rms current 90A	0.023	50

Wiring bars / Insulated bus bars

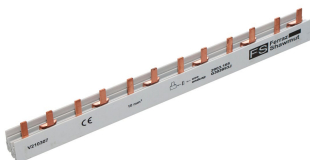
Catalog number	Reference number	Description	Application	Weight kg ¹⁾	Package
CMS810BB4F3	X210309	quadruple pole, 10 mm ² , partition 17,5 mm (distance of poles), peg design, L-shaped	Max. rms current 100A, for installation of 3 modules	0.106	10
CMS810BB3F4	W210308	triple pole, 10 mm ² , partition 17,5 mm (distance of poles), peg design, L-shaped	Max. rms current 100A, for installation of 4 modules	0.085	10
CMS810BB2F6	V210307	double pole, 10 mm ² , partition 17,5 mm (distance of poles), peg design, L-shaped	Max. rms current 63A, for installation of 6 modules	0.075	10
CMS810BB1F13	T210306	single pole, 10 mm ² , partition 17,5 mm (distance of poles), peg design, L-shaped	Max. rms current 63A, for installation of 13 modules	0.036	10



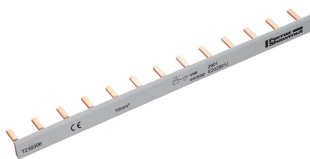
CMS810BB4F3



CMS810BB3F4



CMS810BB2F6



CMS810BB1F13

1) weight in kg per piece or set including package