



Compact fuse holders CCR

FUSE HOLDERS, FUSE BASES AND SUPPORTS

IEC CYLINDRICAL FUSE HOLDERS



The innovative and comprehensive range of Mersen fuse-holders. CCR fuse-holders are finger-safe under IEC standards to an IP20 grade of protection, including fuse changing (with the flick of a finger). CCR fuse-holders are available in 1, 2, 3 poles, in IEC version in a very special compact design. Multi-pole units can also be field assembled by ordering pin-ties assembly kit. CCR range is made of tough and durable thermoplastic material.

TECHNICAL DATA OVERVIEW

| | |
|------------------|---|
| Voltage Range AC | 400 ... 500 VAC |
| Ampere Range (A) | 25 ... 32 A |
| SCCR | CCR8 = 20 kA, CCR10 = 120 kA |
| Mounting | Installation on to DIN rails to EN 60719 |
| Body Material | PA6.6 UL94V0 |
| Product Size | For cylindrical fuse links 8x31 and 10x38 |
| Number of Poles | 1-pole, 2-pole, 3-pole, 1+N |

FEATURES & BENEFITS

- Very compact design for small space applications
- Single pole + neutral conductor in one single module
- Finger safe
- Degree of protection: IP20
- DIN rail mounting
- Flame retardant materials with glow wire flammability index to 960°C

APPLICATIONS

- All circuits up to 500VAC for protection of motors, transformers, low voltage distribution, control circuits
- Non-load operation
- Special applications where small room is available:
 - street lighting connection boxes
 - street christmas light connecting boxes
 - swimming pool connecting boxes

STANDARDS

- IEC 60269-2
- IEC 60269-3 and 60947-3 for single pole models
- RoHS Compliant



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PRODUCT RANGE



CCR81

CCR8 for fuse-links 8,5x31mm, 25A, 400V

| Catalog number | Reference number | Number of poles/phases | Design | Standard compliance | Weight | Package |
|----------------|------------------|------------------------|--|---|-----------|---------|
| CCR81 | C200769 | 1 | CCR8 single pole | IEC60947-3 IEC60269-2 IEC60269-3 + NF | 58 g | 12 |
| CCR81N | A218730 | 1 + N | CCR8 single pole + neutral conductor in one module | IEC60947-3 IEC60269-2 IEC60269-3 + NF | 58 g | 12 |
| CCR82 | V233721 | 2 | CCR8 double pole | IEC60269-2 | 0.125 kg | 6 |
| CCR83 | W233722 | 3 | CCR8 triple pole | IEC60269-2 | 0.1887 kg | 4 |
| CCR810N | Z214635 | - | neutral conductor | IEC60947-3 IEC60269-2 IEC60269-3 + NF | 58 g | 12 |



CCR101N

CCR10 for fuse-links 10x38mm, 32A, 500V

| Catalog number | Reference number | Number of poles/phases | Design | Standard compliance | Weight | Package |
|----------------|------------------|------------------------|---|---|-----------|---------|
| CCR101 | N218213 | 1 | CCR10 single pole | IEC60947-3 IEC60269-2 IEC60269-3 + NF | 58 g | 12 |
| CCR101N | H215655 | 1 + N | CCR10 single pole + neutral conductor in one module | IEC60947-3 IEC60269-2 IEC60269-3 + NF | 62.9 g | 12 |
| CCR102 | X233723 | 2 | CCR10 double pole | IEC60269-2 | 0.1258 kg | 6 |
| CCR103 | Y233724 | 3 | CCR10 triple pole | IEC60269-3 | 0.1887 kg | 4 |
| CCR810N | Z214635 | - | neutral conductor | IEC60947-3 IEC60269-2 IEC60269-3 + NF | 58 g | 12 |

TECHNICAL DATA

| | CCR8 | CCR10 |
|--|---|---|
| Size | 8 x 31 | 10 x 38 |
| Number of poles/phases | 1, 1+N, 2, 3 | 1, 1+N, 2, 3 |
| Conventional free air thermal current with fuse links I_{th} | 25 A | 32 A |
| Power dissipation at I_{th} | 2.5 W | 3 W |
| Utilization category to IEC/EN 60947-3 $U_e = AC 400 V; I_e = 25 A$ $U_e = AC 500 V; I_e = 32 A$ | AC 20 B - | - AC 20 B |
| Rated insulation voltage U_i | 500 V | 500 V |
| Rated operational voltage U_e | 400 V | 500 V |
| Rated impulse withstand voltage U_{imp} | 6 kV | 6 kV |
| Degree of protection | IP 20 | IP 20 |
| Rated short circuit making capacity $U_e = AC 400 V; I_e = 25 A$ $U_e = AC 500 V; I_e = 32 A$ | 20 kA - | - 120 kA |
| Standard cable terminal | Philips slot head screws rigid wire 1-10mm ² , multistranded wire 1-6mm ² , M = 2 Nm | Philips slot head screws rigid wire 1-10mm ² , multistranded wire 1-6mm ² , M = 2 Nm |
| Rated short circuit making capacity $U_e = AC 400 V; I_e = 25 A$ $U_e = AC 500 V; I_e = 32 A$ | AC 20 B - 20 kA - | - AC 20 B - 120 kA |



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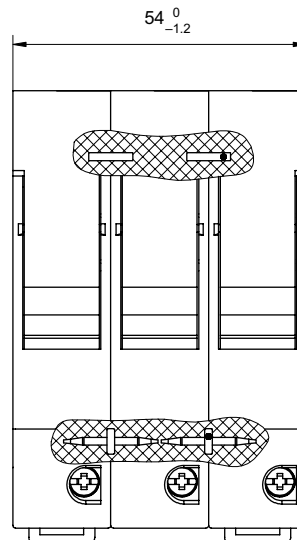
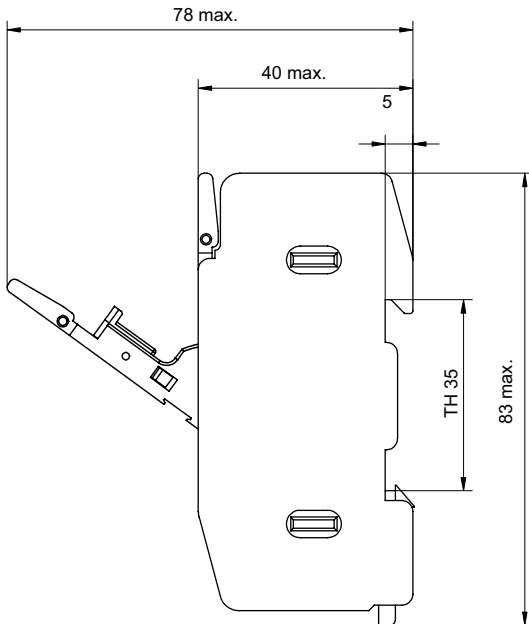
DIMENSIONS

Compact fuse-holder CCR for cylindrical fuse-links

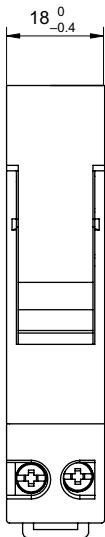
CCR 8 for fuse-links size 8x31mm, Ø 8mm

CCR 10 for fuse-links size 10x38mm, Ø 10mm

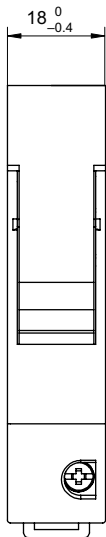
Neutral conductor CCR810N



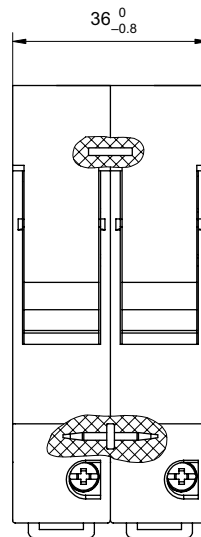
(CCR83/CCR103)



(CCR81N/CCR101N)



(CCR81/CCR101/CCR810N)



(CCR82/CCR102)

Dimensions in mm

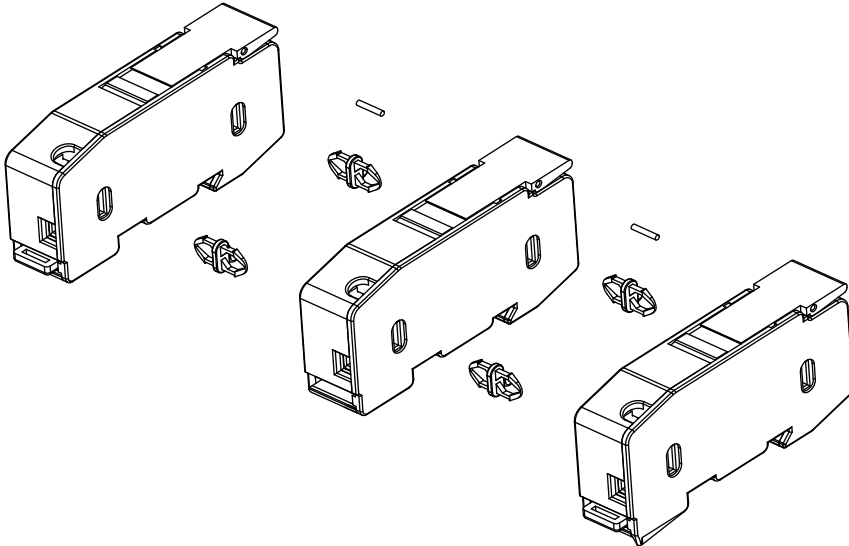


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DIMENSIONS

Accessory: CMS810PAK

Links for connection of multi pole units CCR8 and CCR10



Dimensions in mm

ACCESSORIES



CMS810PAK + fuse-holder

Kit for multi phase connection

| Catalog number | Reference number | Description | Weight | Package |
|----------------|------------------|---|--------|---------|
| CMS810PAK | Z233725 | Links for connection of multipole units | 0.5 g | 12 |

MERSEN reserves the right to change, update or correct, without notice, any information contained in this datasheet.