

# CH Modular, IP20 finger-safe DIN-Rail holders for Class CC, supplemental and PV fuses



## Catalog symbol:

- CHCC\_ (Class CC)
- CHM\_ (UL® supplemental/IEC 10x38)
- CHPV\_ (13/32 x 1-1/2 and 10x38 photovoltaic)

## Description:

Eaton's Bussmann™ series CH DIN-Rail fuse holders are for UL Class CC and supplemental fuses, and IEC 10x38 fuses. They are available with and without indication in 1-, 2- and 3-pole IP20 finger-safe versions. A variety of accessories extends their application flexibility and they may be ganged together to meet specific application requirements.

For other Bussmann series CH fuse holders, please see the following data sheets.

| Fuse class | Fuse size   | Data sheet No. |
|------------|-------------|----------------|
| Class J    | 30 and 60 A | 2144           |
|            | 8 x 32 mm   | 720147         |
| IEC        | 14 x 51 mm  | 10080          |
|            | 22 x 58 mm  | 10015          |

## Specifications:

### Ratings

- Volts
  - 600 V (or less) UL
  - 690 V (or less) IEC
  - 1000 Vdc (or less) photovoltaic (PV)
- Amps
  - 30 A UL
  - 32 A IEC
- Short-Circuit Current Rating (SCCR)
  - 33 kA photovoltaic
  - 200 kA RMS Sym. (CHCC, CHM\*)

\* CHM SCCR is fuse interrupting rating dependent.

### Agency information

- CHCC - Class CC version: UL Listed, File E14853, Guide IZLT
- CHM - Supplemental fuse version: UL Recognized, File E14853, Guide IZLT2
- CHPV - PV version: UL Listed, File E348242, Guide IZMR
- CSA® File 47235, CHPV and CHM - Class 6225-30, CHCC - Class 6225-01
- IEC 60269-2 (CHM, CHPV)
- CCC
- RoHS compliant

### Mounting

- 35 mm DIN-Rail

**Wire range** (see conductor table on page 3 for details)

- 75°C and 90°C Cu
- #18 to #4 (0.8 mm<sup>2</sup> to 21.1 mm<sup>2</sup>)
  - Solid
  - Stranded
  - Fine stranded

### Terminals

- Single or dual conductors
- Comb busbar
- Terminal screws
  - Standard phil-slot
  - Optional hex head (order by adding "-H" suffix to the catalog number, e.g., CHM1DU-H)

### Flammability

- UL 94V0, self-extinguishing

### Storage and operating temperature

- -4°F (-20°C) to 194°F (90°C) indicating
- -4°F (-20°C) to 248°F (120°C) non-indicating



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## Features and benefits:

- High SCCR rated, UL Listed Class CC holder with optional open fuse indication for 600 Vac/dc and 48 V dc (see catalog number table for details)
- Enhanced safety with IP20 finger-safe construction
- UL Recognized midjet and IEC 10x38 holders with factory assembled neutral pole option
- Agency ratings up to 1000 Vdc for use with PV fuses
- Available remote PLC fuse indication module
- Wiring flexibility with terminals rated for use with 75°C or 90°C solid, stranded and fine stranded wire, and spade terminals and comb busbars. (Use any higher temperature insulations at the 90°C ampacity.)
- Complete range of UL Listed and high SCCR rated one- and three-phase finger-safe comb busbars and power feed lugs
- Optional hex head terminal screw makes it easier to achieve necessary torque values

## Features:

Fuse access door accommodates 4 mm lockout/tagout device

Optional open fuse indicator

IP20 finger-safe construction

Captive phil-slot or optional hex head terminal screw

Fork lug terminal

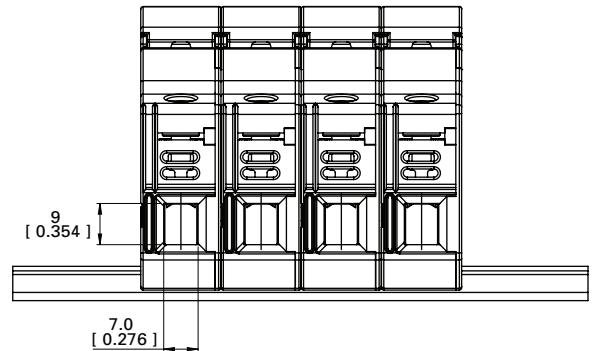
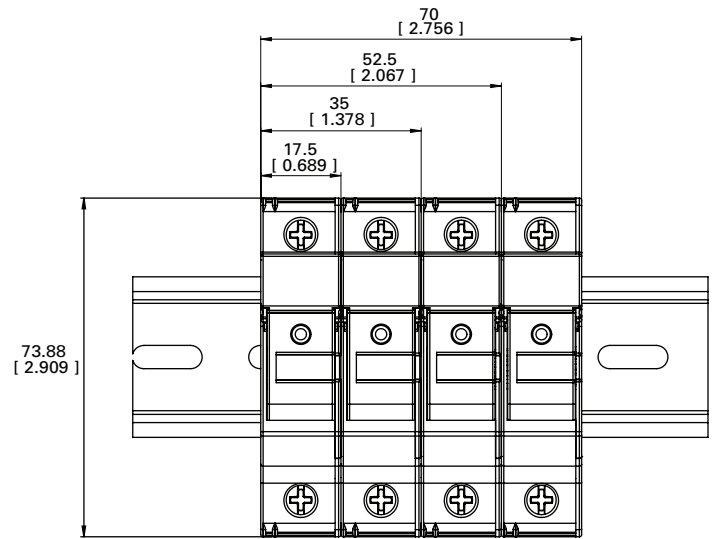
Toolless ganging for multiple poles

Toolless 35 mm DIN-Rail mounting

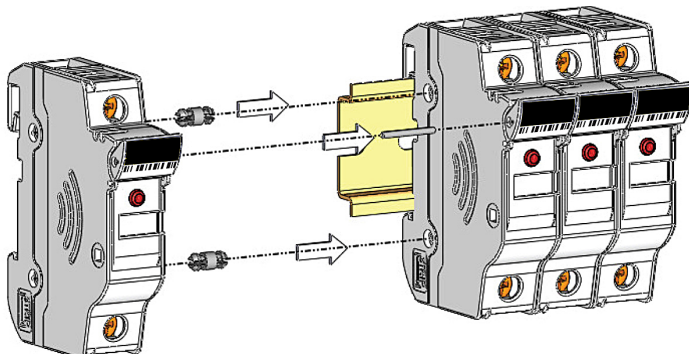
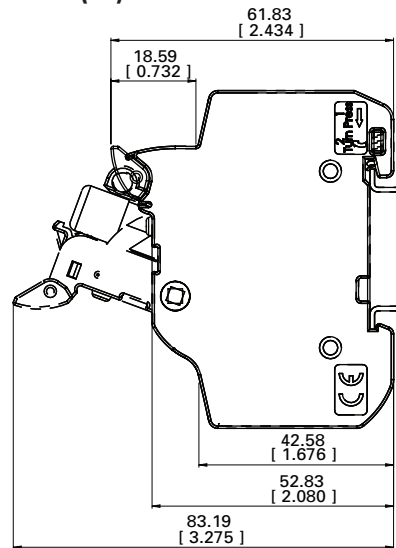
Wire strip gauge

Dual conductor rated box lug clamp

73.88  
[ 2.909 ]



## Dimensions - mm (in):



Gang multiple poles to meet application requirements using kit catalog number JV-L (gangs up to four poles).

## UL midget and IEC 10x38 CHM holder catalog numbers



| Catalog number†  |                    | Volts and amps          |             | Agency marks              | Poles       | SCCR                          | Recommended Bussmann series fuses                                  |
|------------------|--------------------|-------------------------|-------------|---------------------------|-------------|-------------------------------|--------------------------------------------------------------------|
| With indication* | Without indication | UL                      | IEC         |                           |             |                               |                                                                    |
| CHM1DIU          | CHM1DU             | 600 V/30 A              | 690 V/32 A  | UR, CSA, IEC 60269-2, CCC | 1           | 200 kA** RMS Sym.††           | BAF, BAN, FNM, FNQ, FWA, FWC, KLM, KTK, AGU, C10G_, C10M_          |
| CHM2DIU          | CHM2DU             |                         |             |                           | 2           |                               |                                                                    |
| CHM3DIU          | CHM3DU             |                         |             |                           | 3           |                               |                                                                    |
| CHM4DIU          | CHM4DU             |                         |             |                           | 4           |                               |                                                                    |
| CHM1DNIU         | CHM1DNU            |                         |             | IEC 60269-2               | 1 + neutral |                               |                                                                    |
| CHM3DNIU         | CHM3DNU            |                         |             |                           | 3 + neutral |                               |                                                                    |
| CHM1DI-48U       | —                  | 48 Vdc/30 A             | 48 Vdc/32 A | UR, CSA, IEC 60269-2, CCC | 1           |                               |                                                                    |
| —                | CHM1DNXU           | —                       | 690V/32 A   | IEC 60269-2               |             | N/A                           | N/A                                                                |
| CHM1DCIU         | CHM1DCU            | 600 Vac, 1000 Vdc, 30 A | 690 V, 32 A | UR, CSA, IEC 60269-2      | 1           | 200 kA** RMS Sym., 33 kA DC†† | 600/690V BAF, BAN, FNM, FNQ, FWA, FWC, KLM, KTK, AGU, C10G_, C10M_ |
| CHM2DCIU         | CHM2DCU            |                         |             |                           | 2           |                               |                                                                    |
| CHM3DCIU         | CHM3DCU            |                         |             |                           | 3           |                               |                                                                    |
| CHM4DCIU         | CHM4DCU            |                         |             |                           | 4           |                               |                                                                    |

† Available with optional hex head terminal screws. To order, add "-H" suffix to the desired catalog number.

†† SCCR is limited to the interrupting rating of the installed fuse or 200 kA, which ever is less.

\* All models require 90 V minimum for illumination, except CHM1DI-48U that requires 15 V minimum.

\*\* SCCR is limited to the interrupting rating of the installed fuse or 200 kA, which ever is less.

## UL Class CC CHCC holder catalog numbers



| Catalog number†  |                    | Volts / amps | Agency marks | Poles | SCCR            | Recommended Bussmann series fuses |
|------------------|--------------------|--------------|--------------|-------|-----------------|-----------------------------------|
| With indication* | Without indication |              |              |       |                 |                                   |
| CHCC1DIU         | CHCC1DU            | 600 V/30 A   | UL, CSA, CCC | 1     | 200 kA RMS Sym. | LP-CC, FNQ-R, KTK-R               |
| CHCC2DIU         | CHCC2DU            |              |              | 2     |                 |                                   |
| CHCC3DIU         | CHCC3DU            |              |              | 3     |                 |                                   |
| CHCC1DI-48U      | —                  | 48 Vdc/30 A  |              | 1     | 33 kA DC        |                                   |

† Available with optional hex head terminal screws. To order, add "-H" suffix to the desired catalog number.

\* All models require 90 V minimum for illumination, except CHCC1DI-48U that requires 15 V minimum.

## UL and IEC photovoltaic CHPV holder catalog numbers



| Catalog number† |                    | Volts / amps  | Agency marks                            | Poles | SCCR     | Recommended Bussmann series fuses |
|-----------------|--------------------|---------------|-----------------------------------------|-------|----------|-----------------------------------|
| With indication | Without indication |               |                                         |       |          |                                   |
| CHPV1IU         | CHPV1U             | 1000 Vdc/30 A | UL, CSA, , UL 4248-19, IEC 60269-1, CCC | 1     | 33 kA DC | PV-(amp)A10F, PV10M-(amp)         |
| CHPV2IU         | CHPV2U             |               |                                         | 2     |          |                                   |

† Available with optional hex head terminal screws. To order, add "-H" suffix to the desired catalog number.

\* All models require 90 V minimum for illumination.

## Conductor information

| AWG wire range                               | Wire type                      | Wire rating     | Terminal torque N•m (lb-in)* |
|----------------------------------------------|--------------------------------|-----------------|------------------------------|
| 4-12                                         | Solid/Stranded/compact/Class K | 75°C or 90°C Cu | 3.4 (30)                     |
| 14-18                                        | Solid/Stranded/Class K         |                 | 2.3 (20)                     |
| (2) 10-12                                    | Stranded                       |                 | 3.4 (30)                     |
| 10-18 (includes up to 6mm² in metric sizing) | Solid/Stranded/Ferrule         |                 | 2.8 (25)                     |
| (2) 14                                       | Solid/Stranded                 |                 | 3.4 (30)                     |
| (2) 16-18                                    |                                |                 | 2.8 (25)                     |
| Fork terminals                               | N/A                            |                 | 3.4 (30)                     |
| Comb busbar                                  |                                |                 |                              |

\* Use a phil-slot bit designed for high torque, or specify hex head terminal screw option.