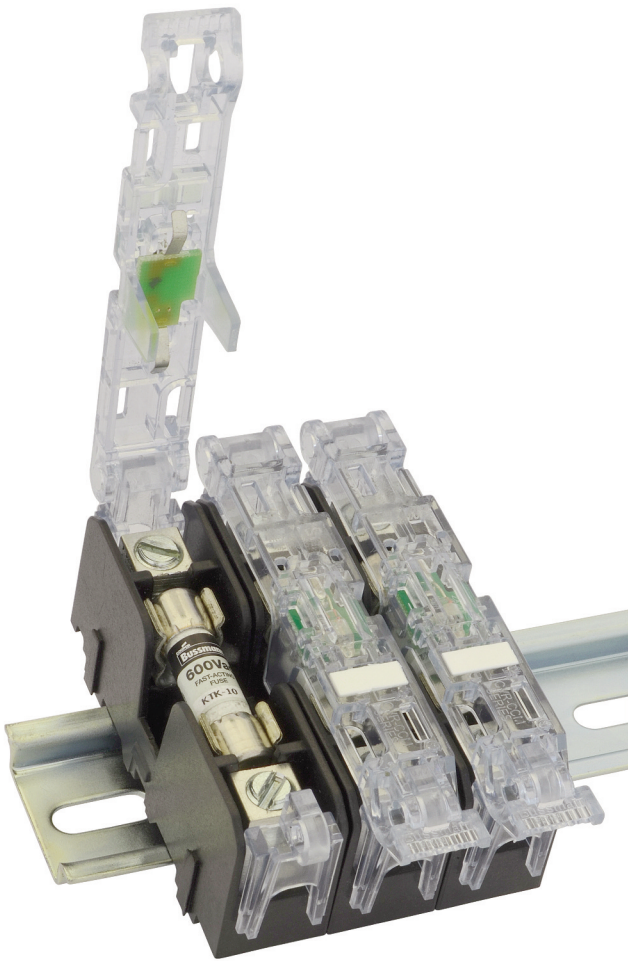




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RED indicates NEW information

## CH Series - 8x32, 10x38, 14x51, 22x58, Class CC

### Specifications

**Description:** The 'CH' line of modular fuse holders accommodates many fuses from around the world, including North American Class-CC, Midget, Class gR, aR HSF, and IEC Industrial Ferrule (Class gG and aM) in four physical sizes: 8x32, 10x38, 14x51 and 22x58mm.

### Agency information:

UL File E14853

Guide IZLT Listed, IZLT2 Recognized

CSA: File 47235, CHPV and CHM - Class 6225-30,

CHCC - Class 6225-01. RoHS compliant. CE, CCC.

### Ratings:

600V/30A (UL)

690V/32A (IEC)

### Wire range:

#18 to #4 (0.8mm<sup>2</sup> to 21.1mm<sup>2</sup>)

### Torque ratings:

30 Lb-In (3.4 N•m) maximum

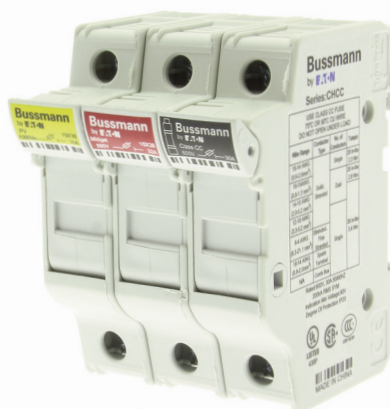
### Flammability ratings:

UL 94V0, self-extinguishing

### Storage and operating temperature range:

-20°C to +90°C (indicating)

-20°C to +120°C (non-indicating)



RoHS

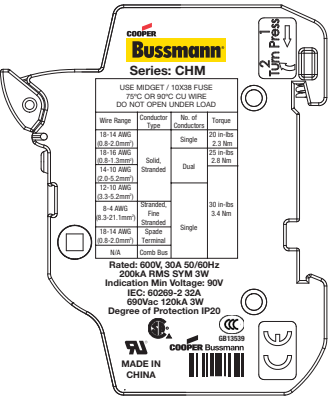
### Features/benefits

- High SCCR rated, UL Listed Class CC holder with indicator option for 600Vac/dc and 48Vdc.
- UL Recognized midget and 10 x 38 holders with factory assembled neutral pole option.
- Agency ratings up to 1000Vdc for use with 10 x 38 solar PV fuses.
- Available remote PLC indication with the CH-PLC module.
- Terminals rated for use with 75°C or 90°C wire, fine stranded wire, spade terminals and comb-bus bars. Use any higher temperature rated wire with appropriate derating.
- Complete range of UL Listed and high SCCR rated 1-phase and 3-phase finger-safe comb-bus bars and power feed lugs.

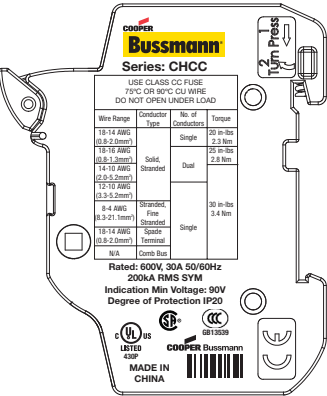
| Symbol and size      | Catalog numbers |                   | Voltage and current | Agency markings              | Number of poles    | Terminal rating                                                                                      | Withstand rating | Bussmann series fuses                                 |
|----------------------|-----------------|-------------------|---------------------|------------------------------|--------------------|------------------------------------------------------------------------------------------------------|------------------|-------------------------------------------------------|
|                      | With indicator  | Without indicator |                     |                              |                    |                                                                                                      |                  |                                                       |
| CHM 10X38 and Midget | CHM1DIU         | CHM1DU            | UL                  | UR; IEC                      | 1                  | Solid, stranded, fine stranded, spade lug, comb bus bar; single and dual wire; 75°C and 90°C Cu wire | 200kA* RMS Sym   | FNQ, KLM, FNM, KTK, BAF, FWA, PVM, C10, AGU, BAN, FWC |
|                      | CHM2DIU         | CHM2DU            | 600V/30A;           | 60269-2;                     | 2                  |                                                                                                      |                  |                                                       |
|                      | CHM3DIU         | CHM3DU            | IEC                 | CSA; CCC;                    | 3                  |                                                                                                      |                  |                                                       |
|                      | CHM4DIU         | CHM4DU            | 690V/32A            | CE                           | 4                  |                                                                                                      |                  |                                                       |
|                      | CHM1DCIU        | CHM1DCU           | UL                  |                              | 1                  |                                                                                                      |                  |                                                       |
|                      | CHM2DCIU        | CHM2DCU           | 600Vac/30A          | UR; IEC                      | 2                  |                                                                                                      |                  |                                                       |
|                      | CHM3DCIU        | CHM3DCU           | 1000Vdc/30A         | 60269-2                      | 3                  |                                                                                                      |                  |                                                       |
|                      | CHM4DCIU        | CHM4DCU           | IEC                 | CSA; CE                      | 4                  |                                                                                                      |                  |                                                       |
|                      | CHM1DNIU        | CHM1DNU           | UL                  | IEC                          | 1 pole + 1 Neutral |                                                                                                      |                  |                                                       |
|                      | CHM3DNIU        | CHM3DNU           | 600V/30A;           | 60269-2;                     | 3 pole + 1 neutral |                                                                                                      |                  |                                                       |
|                      |                 |                   | IEC                 | CE                           |                    |                                                                                                      |                  |                                                       |
| CHPV                 | CHM1DI-48U      |                   | UL 48Vdc/30A;       | UR; IEC                      | 1                  |                                                                                                      | N/A              | N/A                                                   |
|                      |                 |                   | IEC 48Vdc/32A       | 60269-2;                     |                    |                                                                                                      |                  |                                                       |
|                      |                 | CHM1DNXU          | IEC 690V/32A        | CSA; CCC; CE                 | 1 neutral          |                                                                                                      |                  |                                                       |
| CHPV                 | CHPV1IU         | CHPV1U            | UL and IEC;         | UL; CSA; CE                  | 1                  |                                                                                                      | 33kA             | PV, PVM Solar PV                                      |
|                      | CHPV2IU         | CHPV2U            | 1000Vdc/30A         | UL 4248-18; IEC 60269-1; CCC | 2                  |                                                                                                      |                  |                                                       |
| CHCC Class CC        | CHCC1DIU        | CHCC1DU           | UL 600V/30A         | UL; CSA; CCC; CE             | 1                  |                                                                                                      | 200kA rms sym    | LP-CC, FNQ-R, KTK-R                                   |
|                      | CHCC2DIU        | CHCC2DU           |                     |                              | 2                  |                                                                                                      |                  |                                                       |
|                      | CHCC3DIU        | CHCC3DU           |                     |                              | 3                  |                                                                                                      |                  |                                                       |
|                      | CHCC1DI-48U     |                   | UL 48Vdc/30A        |                              | 1                  |                                                                                                      |                  |                                                       |

\*Actual SCCR dependent on fuse rating.

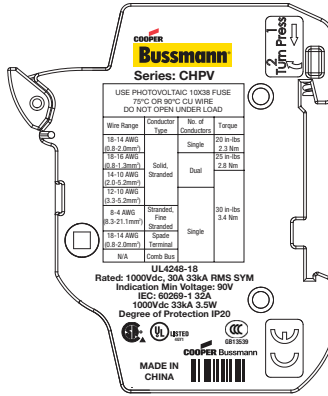
CHM and CHMI



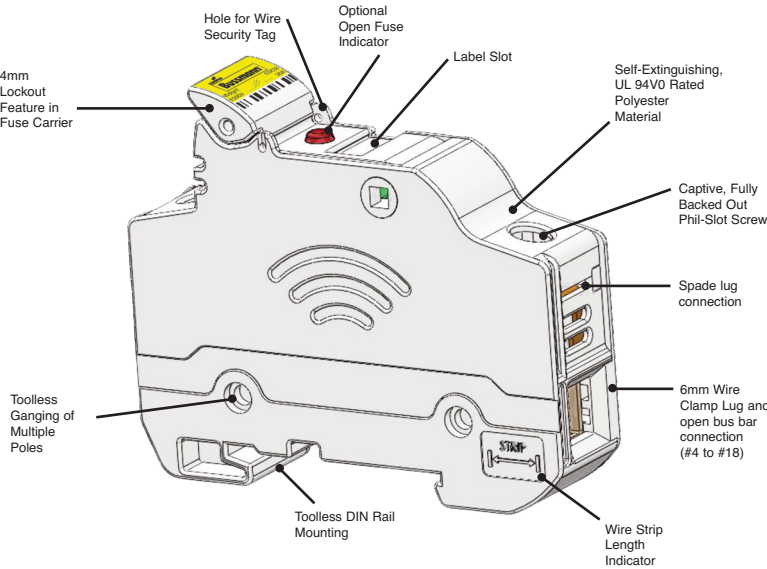
CHCC and CHCCI



CHPV and CHPVI

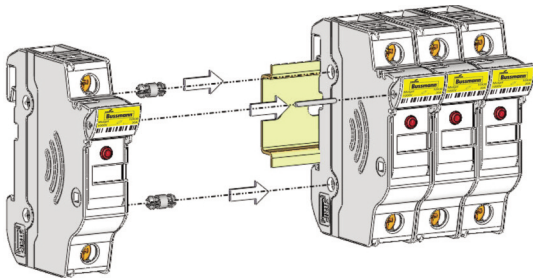


Features



Multi-pole ganging

Use multi-pole connection kit part number JV-L to gang multiple poles together. One JV-L kit is sufficient to gang up to 4 poles.



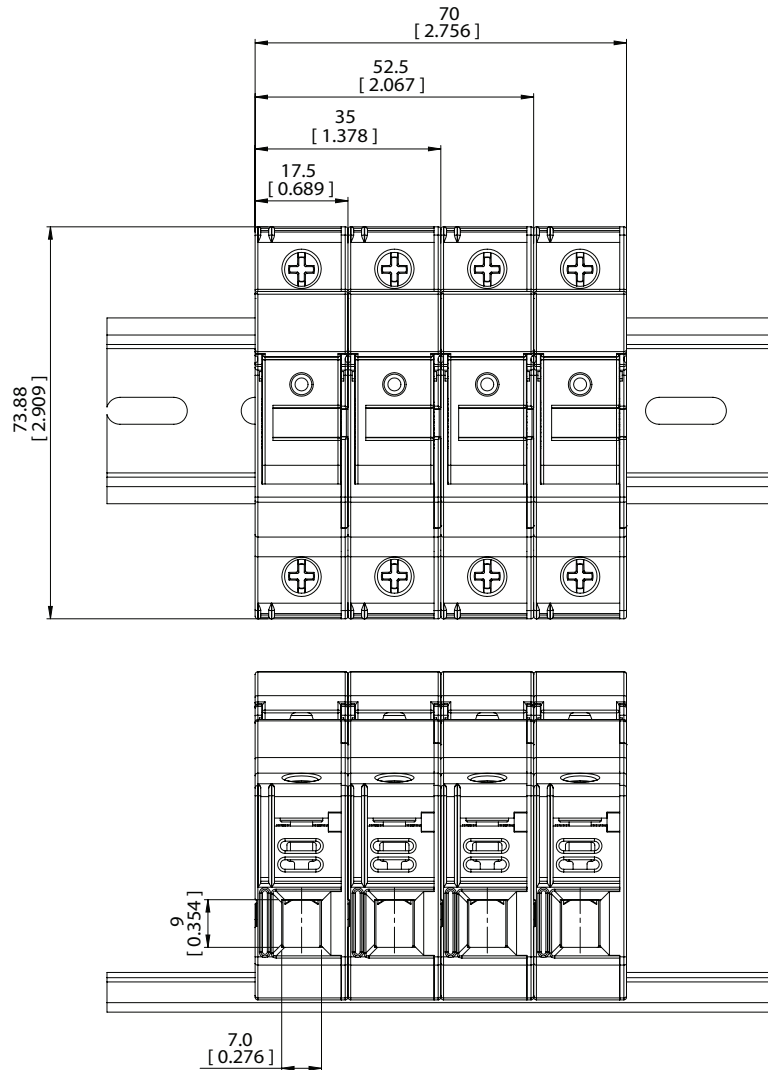
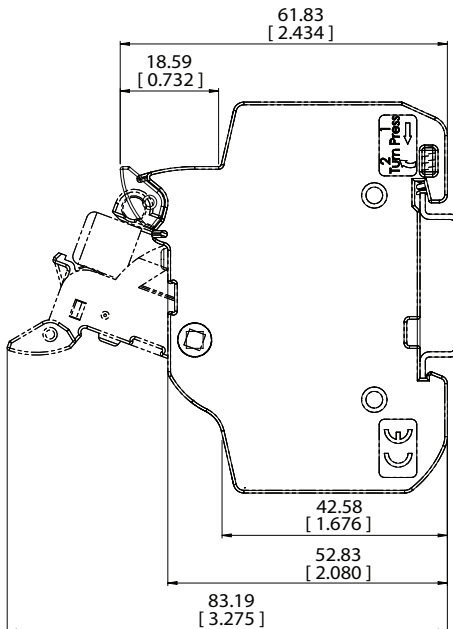
For additional information see reorder #3185

# 9

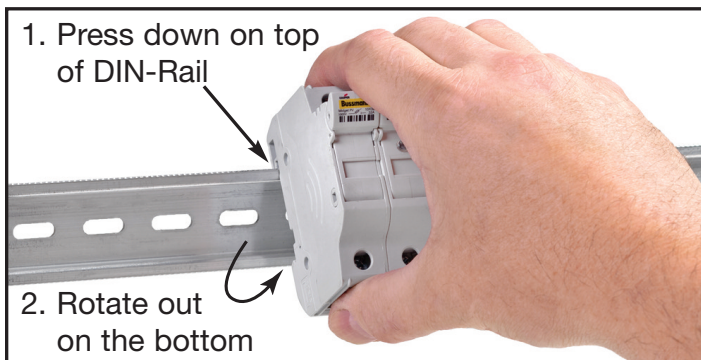
## Fuse holders and blocks

Rail mount fuse blocks and holders

### Dimensions - mm (in) (CHCC, CHM and CHPV)



### Removing instructions

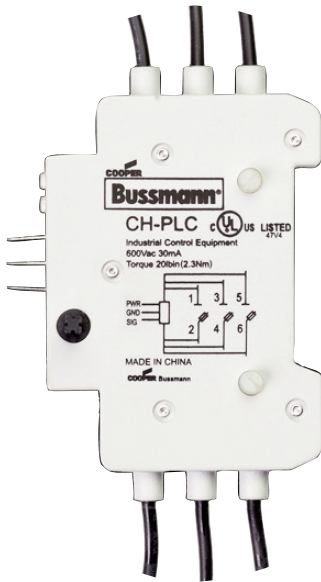




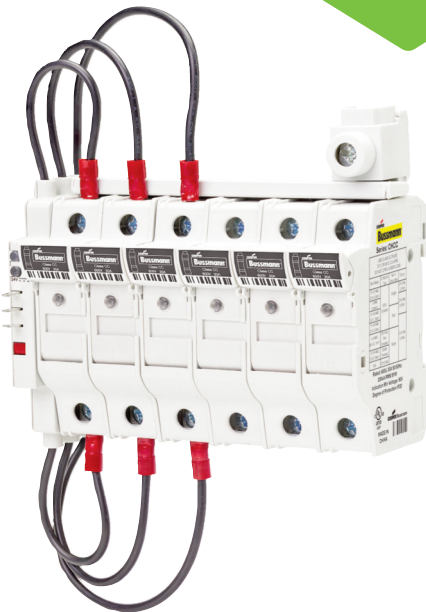


| Catalog numbers                                                                                                                                                                                                                                                                       |                    |                               |                                                                  |     |     |                                |                       |                                  |                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------------|------------------------------------------------------------------|-----|-----|--------------------------------|-----------------------|----------------------------------|----------------------------|
| Without indication                                                                                                                                                                                                                                                                    | With* indication   | Size                          | Max voltage and Current                                          | IEC | UL  | Phase configuration            | No. of 17.5mm modules | Wire range                       | Maximum torque             |
| CH081D                                                                                                                                                                                                                                                                                | CH081DI            | CH08<br>8x32                  | IEC<br>400Vac<br>25A                                             | •   |     | 1-pole                         | 1                     | 1-16mm <sup>2</sup> (18-8 AWG)   | 2.5 N•m (22LB-In)          |
| CH081DNX                                                                                                                                                                                                                                                                              | -                  |                               |                                                                  | •   |     | 1 Neutral Pole                 | 1                     |                                  |                            |
| CH081DNS                                                                                                                                                                                                                                                                              | CH081DNSI          |                               |                                                                  | •   |     | 1-pole + Neutral               | 1                     | 1-10mm <sup>2</sup> (18-8 AWG)   | 2.0 N•m (17.5LB-In)        |
| CH081DN                                                                                                                                                                                                                                                                               | CH081DNI           |                               |                                                                  | •   |     | 1-pole + Neutral               | 2                     | 1-16mm <sup>2</sup> (18-8 AWG)   | 2.5 N•m (22LB-In)          |
| CH082D                                                                                                                                                                                                                                                                                | CH082DI            |                               |                                                                  | •   |     | 2-pole                         | 2                     |                                  |                            |
| CH083D                                                                                                                                                                                                                                                                                | CH083DI            |                               |                                                                  | •   |     | 3-pole                         | 3                     |                                  |                            |
| CH083DNS                                                                                                                                                                                                                                                                              | CH083DNSI          |                               |                                                                  | •   |     | 3-pole + Neutral               | 3                     |                                  |                            |
| CH083DN                                                                                                                                                                                                                                                                               | CH083DNI           |                               |                                                                  | •   |     | 3-pole + Neutral               | 4                     |                                  |                            |
| CH084D                                                                                                                                                                                                                                                                                | CH084DI            |                               |                                                                  | •   |     | 4-pole                         | 4                     |                                  |                            |
| CHM1DU                                                                                                                                                                                                                                                                                | CHM1DIU            | CHM<br>10X38<br>and<br>Midget | UL                                                               | •   | *   | 1-pole                         | 1                     | 1-21mm <sup>2</sup> (18-4 AWG)   | 3.4 N•m (30LB-In)          |
| CHM2DU                                                                                                                                                                                                                                                                                | CHM2DIU            |                               | 600V/30A;                                                        | •   | *   | 2-pole                         | 2                     |                                  |                            |
| CHM3DU                                                                                                                                                                                                                                                                                | CHM3DIU            |                               | IEC                                                              | •   | *   | 3-pole                         | 3                     |                                  |                            |
| CHM4DU                                                                                                                                                                                                                                                                                | CHM4DIU            |                               | 690V/32A                                                         | •   | *   | 4-pole                         | 4                     |                                  |                            |
| CHM1DCIU                                                                                                                                                                                                                                                                              | CHM1DCU            |                               | UL 600Vav/30A                                                    | •   | *   | 1-pole                         | 1                     |                                  |                            |
| CHM2DCIU                                                                                                                                                                                                                                                                              | CHM2DCU            |                               | 1000Vdc/30A                                                      | •   | *   | 2-pole                         | 2                     |                                  |                            |
| CHM3DCIU                                                                                                                                                                                                                                                                              | CHM3DCU            |                               | IEC                                                              | •   | *   | 3-pole                         | 3                     |                                  |                            |
| CHM4DCIU                                                                                                                                                                                                                                                                              | CHM4DCU            |                               | 690V/32A                                                         | •   | *   | 4-pole                         | 4                     |                                  |                            |
| CHM1DNU                                                                                                                                                                                                                                                                               | CHM1DNIU           |                               | UL 600V/30A;                                                     | •   | *   | 1-pole + Neutral               | 2                     |                                  |                            |
| CHM3DNU                                                                                                                                                                                                                                                                               | CHM3DNIU           |                               | IEC 690V/32A                                                     | •   | *   | 3-pole + Neutral               | 4                     |                                  |                            |
| -                                                                                                                                                                                                                                                                                     | CHM1DI-48U         |                               | UL 48Vdc/30A;                                                    | •   | *   | 1-pole                         | 1                     | 1-21mm <sup>2</sup> (18-4 AWG)   | 3.4 N•m (30LB-In)          |
|                                                                                                                                                                                                                                                                                       |                    |                               | IEC                                                              | •   | *   |                                |                       |                                  |                            |
|                                                                                                                                                                                                                                                                                       |                    |                               | 48Vdc/32A                                                        | •   | *   |                                |                       |                                  |                            |
| CHM1DNXU                                                                                                                                                                                                                                                                              | -                  |                               | IEC 690V/32A                                                     | •   |     | 1-pole + Neutral               | 2                     |                                  |                            |
| CHPV1U                                                                                                                                                                                                                                                                                | CHPV1IU            | CHPV                          | UL & IEC;                                                        | •   | ††† | 1-pole                         | 1                     | 1-21mm <sup>2</sup> (18-4 AWG)   | 3.4 N•m (30LB-In)          |
| CHPV2U                                                                                                                                                                                                                                                                                | CHPV2IU            |                               | 1000Vdc/30A                                                      | •   | ††† | 2-pole                         | 2                     |                                  |                            |
| CHCC1DU                                                                                                                                                                                                                                                                               | CHCC1DIU           | CHCC<br>Class CC              | UL                                                               | •   | **  | 1-pole                         | 1                     |                                  |                            |
| CHCC2DU                                                                                                                                                                                                                                                                               | CHCC2DIU           |                               | 600V/30A                                                         | •   | **  | 2-pole                         | 2                     |                                  |                            |
| CHCC3DU                                                                                                                                                                                                                                                                               | CHCC3DIU           |                               |                                                                  | •   | **  | 3-pole                         | 3                     |                                  |                            |
| -                                                                                                                                                                                                                                                                                     | CHCC1DI-48U        |                               | UL 48Vdc/30A                                                     | •   | **  | 1-pole                         | 1                     |                                  |                            |
| CH141B                                                                                                                                                                                                                                                                                | CH141BI            | CH14<br>14x51                 | UL                                                               | •   |     | 1-pole                         | 1.5                   | 2.5-16mm <sup>2</sup> (14-6 AWG) | 3.0 N•m (26LB-In)          |
| CH141BMS                                                                                                                                                                                                                                                                              | -                  |                               | 600Vac/dc                                                        | •   |     | 1-pole + Microswitch           | 1.5                   |                                  |                            |
| CH141BNX                                                                                                                                                                                                                                                                              | -                  |                               | 40A                                                              | •   |     | 1 Neutral Pole                 | 1.5                   |                                  |                            |
| CH141BN                                                                                                                                                                                                                                                                               | CH141BNI           |                               | (5 Watt)                                                         | •   | †   | 1-pole + Neutral               | 3                     |                                  |                            |
| CH142B                                                                                                                                                                                                                                                                                | CH142BI            |                               | IEC                                                              | •   | †   | 2-pole                         | 3                     |                                  |                            |
| CH143B                                                                                                                                                                                                                                                                                | CH143BI            |                               | 690Vac,                                                          | •   |     | 3-pole                         | 4.5                   |                                  |                            |
| CH143BMS                                                                                                                                                                                                                                                                              | -                  |                               | 50A                                                              | •   |     | 3-pole + Microswitch           | 4.5                   |                                  |                            |
| CH143BN                                                                                                                                                                                                                                                                               | CH143BNI           |                               |                                                                  | •   |     | 3-pole + Neutral               | 6                     |                                  |                            |
| CH143BNMS                                                                                                                                                                                                                                                                             | -                  |                               |                                                                  | •   |     | 3-pole + Neutral + Microswitch | 6                     |                                  |                            |
| CH144B                                                                                                                                                                                                                                                                                | CH144BI            |                               |                                                                  | •   |     | 4-pole                         | 6                     |                                  |                            |
| CH221B                                                                                                                                                                                                                                                                                | Not                | CH22<br>22x58                 | UL<br>600Vac/dc,<br>100A<br>(9.5 Watt)<br>IEC<br>690Vac,<br>125A | •   | †   | 1-pole                         | 2                     | 2.5-50mm <sup>2</sup> (14-1 AWG) | 4.0 N•m (35LB-In)          |
| CH221BMS                                                                                                                                                                                                                                                                              | Available          |                               |                                                                  | •   |     | 1-pole + Microswitch           | 2                     |                                  |                            |
| CH221BNX                                                                                                                                                                                                                                                                              | with               |                               |                                                                  | •   |     | 1 Neutral Pole                 | 2                     |                                  |                            |
| CH221BN                                                                                                                                                                                                                                                                               | local              |                               |                                                                  | •   |     | 1-pole + Neutral               | 4                     |                                  |                            |
| CH222B                                                                                                                                                                                                                                                                                | neon               |                               |                                                                  | •   | †   | 2-pole                         | 4                     |                                  |                            |
| CH223B                                                                                                                                                                                                                                                                                | indication         |                               |                                                                  | •   | †   | 3-pole                         | 6                     |                                  |                            |
| CH223BMS                                                                                                                                                                                                                                                                              | (remote            |                               |                                                                  | •   |     | 3-pole + Microswitch           | 6                     |                                  |                            |
| CH223BN                                                                                                                                                                                                                                                                               | microswitch        |                               |                                                                  | •   | †   | 3-pole + Neutral               | 8                     |                                  |                            |
| CH223BNMS                                                                                                                                                                                                                                                                             | only)              |                               |                                                                  | •   |     | 3-pole + Neutral + Microswitch | 8                     |                                  |                            |
| CH224B                                                                                                                                                                                                                                                                                |                    |                               |                                                                  | •   |     | 4-pole                         | 8                     |                                  |                            |
| <b>Class J</b>                                                                                                                                                                                                                                                                        | <b>With</b>        |                               |                                                                  |     |     |                                |                       |                                  |                            |
| <b>Without indication</b>                                                                                                                                                                                                                                                             | <b>indication*</b> |                               |                                                                  |     |     |                                |                       |                                  |                            |
| CH30J1                                                                                                                                                                                                                                                                                | CH30J1I            | CH30J                         | UL/CSA                                                           |     | ††  | 1-pole                         | —                     | 1-50mm <sup>2</sup> (18-1 AWG)   | 1-8 AWG 4.0 N•m (35LB-In)  |
| CH30J2                                                                                                                                                                                                                                                                                | CH30J2I            | 30A                           | 600Vac                                                           |     | ††  | 2-pole                         | —                     |                                  | 10-18 AWG 2.7N•m (24LB-In) |
| CH30J3                                                                                                                                                                                                                                                                                | CH30J3I            | Class J                       |                                                                  |     | ††  | 3-pole                         | —                     |                                  |                            |
| CH60J1                                                                                                                                                                                                                                                                                | CH60J1I            | CH60J                         | UL/CSA                                                           |     | ††  | 1-pole                         | —                     | 1-50mm <sup>2</sup> (18-1 AWG)   | 1-8 AWG 4.0 N•m (35LB-In)  |
| CH60J2                                                                                                                                                                                                                                                                                | CH60J2I            | 60A                           | 600Vac                                                           |     | ††  | 2-pole                         | —                     |                                  | 10-18 AWG 2.7N•m (24LB-In) |
| CH60J3                                                                                                                                                                                                                                                                                | CH60J3I            | Class J                       |                                                                  |     | ††  | 3-pole                         | —                     |                                  |                            |
| † UL Recognized (cURus)    †† UL Listed (cULus)    ††† UL Recognized, Standard 4248-18, CSA<br>For further details see Data Sheets 2053 (CH08, CHM, CHCC, CH14 AND CH22) and 2144 (CHJ Class J)<br>*90V minimum required for illumination<br>***12V minimum required for illumination |                    |                               |                                                                  |     |     |                                |                       |                                  |                            |
| For additional information see reorder #3185                                                                                                                                                                                                                                          |                    |                               |                                                                  |     |     |                                |                       |                                  |                            |

**Make it Simple with the  
Bussmann series resettable  
three-phase remote fuse monitor  
that integrates with a  
Programmable Logic Controller  
(PLC) or other monitoring and  
control equipment.**



**RoHS**



#### Specifications:

- **Power input:** 24Vdc / 5mA
- **Sensing voltage:** 600V/30mA
- **Output signals:** Digital 0Vdc (low), 24Vdc (high)
  - 0Vdc Low – fuse is good
  - 24Vdc High – fuse has opened
 When the fuse opens, the output signal is sent high and will remain high until the unit is reset
- **Rated impulse voltage:** 8kV
- **Local indication:** Two distinct LEDs indicate unit power (green) and open fuse (red). Upon the replacement of the fuse, the actuation of the reset switch will reset the open fuse LED
- **Flammability rating:** UL 94V0

#### Wiring:

- For power, signal and ground connections use shielded twisted pair 22-24AWG (0.25mm<sup>2</sup>) 300V rated wire

#### Emissions and immunity testing:

- Electrostatic discharge IEC 61000-4-2
- Electrical fast transient/burst IEC 6100-4-4
- Surge immunity IEC61000-4-5

#### Packaging:

- The CH-PLC is packaged individually
- A single unit monitors up to three phases
- Package includes 0.11" (2.8mm) quick connects for power, signal and ground connections

#### Minimum circuit voltage:

- Minimum circuit voltage required across the CH holder is 100Vac for the remote indication device to operate

#### Installation technique:

- Mounts on the left side of the fuse holder and mechanically interlocks with the fuse holder switch handle with hardware provided

#### IP20 rating: Yes

#### Environmental data:

- Storage and operating temperature: -20°C to 75°C

#### Agency information:

- UL 508
- cULus to CSA Standard 22.2 No.14

#### PLC programming:

- The CH-PLC signal line is designed to provide a digital input to a PLC I/O card.
- Programmable Logic Control program must be written to properly interpret the input signal to the PLC.
- The PLC program should check for consecutive high signals before taking action on a critical process.

***De-energize all circuits before installing or removing any CH-PLC devices and follow all prescribed safety procedures.***

For additional information see reorder #3185

Specifications

- Agency information:** UL 508, File E195399
- Pitch:** 17.8mm
- SCCR:** 10kA (default)  
100kA (with upstream Class J 200A fuses)
- Max current:** 100A (power feed from end;
- Max voltage:** 600Vac/dc (three phase)  
1000Vdc/600Vac (single phase)

Features and benefits

- Easily distribute power in single-phase or three-phase configurations
- Flexible cut-to-length solutions without compromising on the product's finger-safe features
- 100kA SCCR (Short-Circuit Current Rating) when protected by a 200A Class J fuse
- Single-phase bus bars rated to 1000Vdc and 100A in end-fed configuration
- Three-phase bus bars rated to 600Vac/dc and 100A in end-fed configuration
- Power feed terminals for single-phase and three-phase service

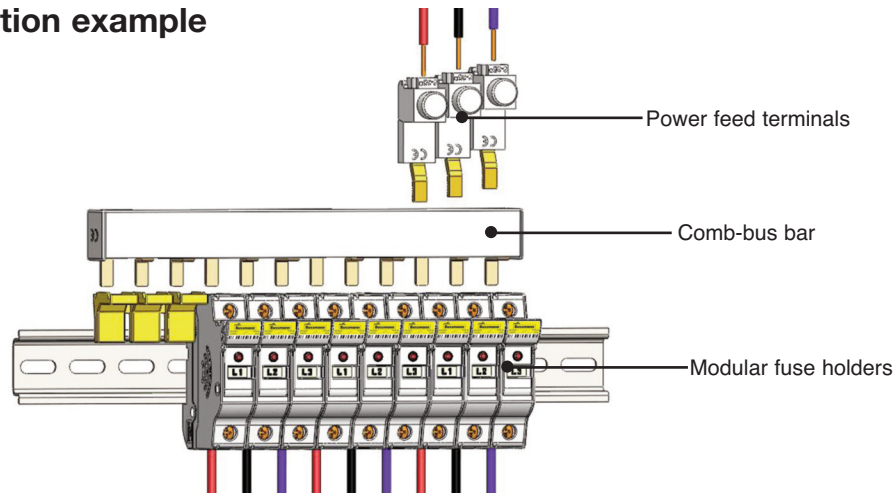


Selection guide

| Part number | Description                                                         |
|-------------|---------------------------------------------------------------------|
| BB1P100M3   | Single-phase 1000Vdc busbar, 100A, 3 pins, assembled endcap         |
| BB1P100M6   | Single-phase 1000Vdc busbar, 100A, 6 pins, assembled endcap         |
| BB1P100M9   | Single-phase 1000Vdc busbar, 100A, 9 pins, assembled endcap         |
| BB1P100M12  | Single-phase 1000Vdc busbar, 100A, 12 pins, assembled endcap        |
| BB1P100M15  | Single-phase 1000Vdc busbar, 100A, 15 pins, assembled endcap        |
| BB1P100M57  | Single-phase 1000Vdc cuttable busbar, 100A, 57 pins, without endcap |
| BB3P100M6   | Three-phase 600V busbar, 100A, 6 pins, assembled endcap             |
| BB3P100M9   | Three-phase 600V busbar, 100A, 9 pins, assembled endcap             |
| BB3P100M12  | Three-phase 600V busbar, 100A, 12 pins, assembled endcap            |
| BB3P100M15  | Three-phase 600V busbar, 100A, 15 pins, assembled endcap            |
| BB3P100M57  | Three-phase 600V cuttable busbar, 100A, 57 pins, without endcap     |
| ECAP1P      | Single-phase busbar endcap                                          |
| ECAPMP      | Three-phase busbar endcap                                           |
| PWR35MM     | 35mm² feeder terminal for three-phase busbar (115A, 1000Vac/dc)     |
| FSCVR       | Spare contact safety protection covers                              |
| PWR1PLP     | Single-phase low-profile feeder terminal (115A, 1000Vac/dc)         |
| PWR50MM     | 50mm² direct feed terminal (1000Vac/dc)                             |

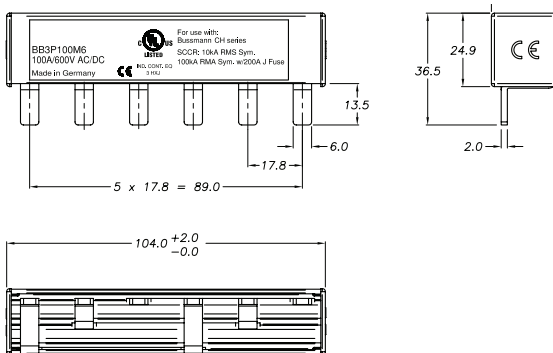
For additional information see reorder #3185

## Typical installation example

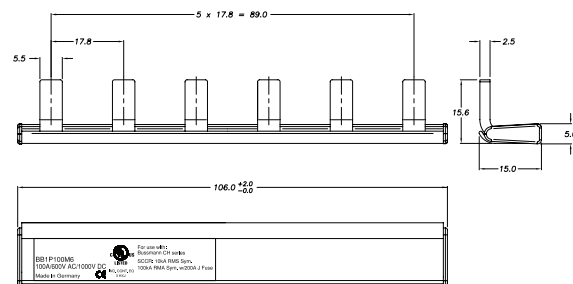


## Typical dimensional data

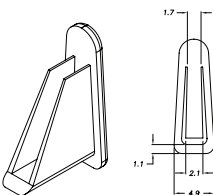
## Three-phase



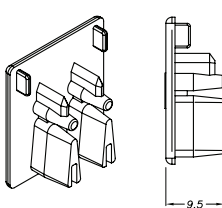
## Single-phase



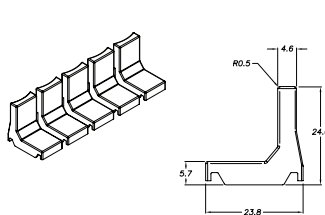
## ECAP1P



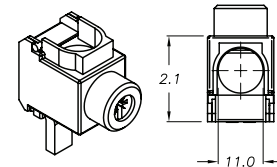
## ECAPMP



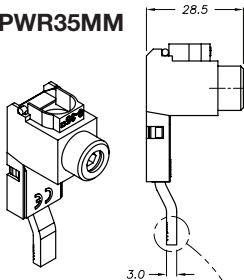
## FSCVR



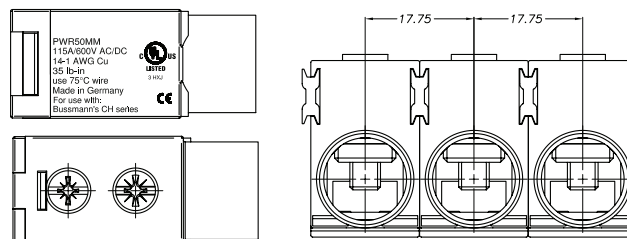
## PWR1PLP



## PWR35MM



## PWR50MM



For additional information see reorder #3185

## CH \_ \_ J \_

### Specifications

**Description:** IP20 finger-safe, 1- to 3-pole Class J fuse holder with DIN-Rail or panel mounting.

### Ratings:

Volts: — 600Vac/dc (or less)

Amps: — 30A (30A version)

— 60A (60A version)

SCCR: — 200kA

**Wire range:** Cu solid and stranded conductors with single (1-18AWG) and dual (3-18AWG) wire ratings. See catalog numbers table for details.

**Torque rating:**10-18AWG 24 lb-in.  
1-8AWG 35 lb-in.

**Poles:** 1-, 2- or 3-pole.

### Storage and operating temperature range\*:

-20°C to 75°C.

**Agency information:** CE, UL 4248/CSA 22.2 No. 4248.P  
UL Listed, Guide IZLT, File E14853.

**Flammability rating:** UL 94V0.

### Catalog numbers

See catalog numbers table below.

### Features and benefits

- Choice of local fuse indication; *easyID*™ viewing window (for seeing indicator on LPJ-SPI indicating fuse) or neon lamp.
- Versatile 1-, 2- and 3-pole versions for 0-30A and 35-60A fuses with dual wire rated connections simplify wiring.
- Improved electrical safety with IP20 finger-safe construction with lock-out/tag-out feature. 3-phase fuse extraction assures all phases are opened for service work.
- Flexible panel/35mm DIN-Rail mounting mounting options

\*For fuse selection on applications above or below 25°C, consult derating charts in Eaton publication "Selecting Protective Devices" (SPD).



30A version

60A version

### Dimensions (mm):

| Fuse size | Poles | W   | D  | H   |
|-----------|-------|-----|----|-----|
| 0-30A     | 1     | 32  | 70 | 115 |
|           | 2     | 64  | 70 | 115 |
|           | 3     | 96  | 70 | 115 |
| 35-60A    | 1     | 40  | 83 | 125 |
|           | 2     | 80  | 83 | 125 |
|           | 3     | 120 | 83 | 125 |

### Catalog numbers

| Catalog numbers | # of poles | Local indication | Amp rating | Volts (AC/DC) | IP20 finger-safe | AWG single wire range | Padlockable | Mounting        |
|-----------------|------------|------------------|------------|---------------|------------------|-----------------------|-------------|-----------------|
| CH30J1          | 1          | <i>easyID</i> ** | 30         | 600           | Yes              | 1-18                  | Yes         | 35mm DIN/ panel |
| CH30J1I         | 1          | Neon lamp***     |            |               |                  |                       |             |                 |
| CH30J2          | 2          | <i>easyID</i> ** |            |               |                  |                       |             |                 |
| CH30J2I         | 2          | Neon lamp***     |            |               |                  |                       |             |                 |
| CH30J3          | 3          | <i>easyID</i> ** |            |               |                  |                       |             |                 |
| CH30J3I         | 3          | Neon lamp***     |            |               |                  |                       |             |                 |
| CH60J1          | 1          | <i>easyID</i> ** | 60         | 600           | Yes              | 1-18                  | Yes         | 35mm DIN/ panel |
| CH60J1I         | 1          | Neon lamp***     |            |               |                  |                       |             |                 |
| CH60J2          | 2          | <i>easyID</i> ** |            |               |                  |                       |             |                 |
| CH60J2I         | 2          | Neon lamp***     |            |               |                  |                       |             |                 |
| CH60J3          | 3          | <i>easyID</i> ** |            |               |                  |                       |             |                 |
| CH60J3I         | 3          | Neon lamp***     |            |               |                  |                       |             |                 |

\*\* *easyID*™ viewing window, requires use of Bussmann series LPJ\_SPI permanent indication fuses.

\*\*\* Indication non-fuse dependent, minimum voltage 90V.



## OPM-1038(R)SW(C) with disconnect switch



### Catalog number build-a-code

| Series                                                                  | Fuse type         | Communication |
|-------------------------------------------------------------------------|-------------------|---------------|
| <b>O</b> <b>P</b> <b>M</b> <b>-</b> <b>1</b> <b>0</b> <b>3</b> <b>8</b> | <b>S</b> <b>W</b> |               |

**Blank** = 10 x  
38mm or 1<sup>3</sup>/<sub>2</sub>" x 1-1/2"  
**R** = Class CC

**C** =  
Communication  
feature

### Specifications

**Description:** 3-pole load break modular fuse holder and disconnect switch for 1<sup>3</sup>/<sub>2</sub> x 1<sup>1</sup>/<sub>2</sub>" (10 x 38mm) fuses.

**Dimensions:** See dimensions illustration.

**Poles:** 3

**Agency information:** CE, UL (see table), CSA Certified, C22.2 No. 39, Class 6225-01, File 47235, IEC (see table).

**Flammability rating:** UL 94V0.

### Horsepower rating of switch

| 3-Phase | Volts | 240 | 480 | 600 |
|---------|-------|-----|-----|-----|
|         | HP    | 5   | 10  | 15  |

### Recommended fuse types

| Class CC | Midget (non-rejection) |     | European |
|----------|------------------------|-----|----------|
| LP-CC    | KTG                    | BAF | C10M     |
| KTK-R    | FNM                    | KLM | C10G     |
| FNQ-R    | FNQ                    |     |          |

### Physical characteristics

- Small size matches 45mm IEC starter width
- Accepts #8-18 AWG stranded, #10-18 AWG solid wire
- 3-pole
- Handle and shaft required for through the door operation

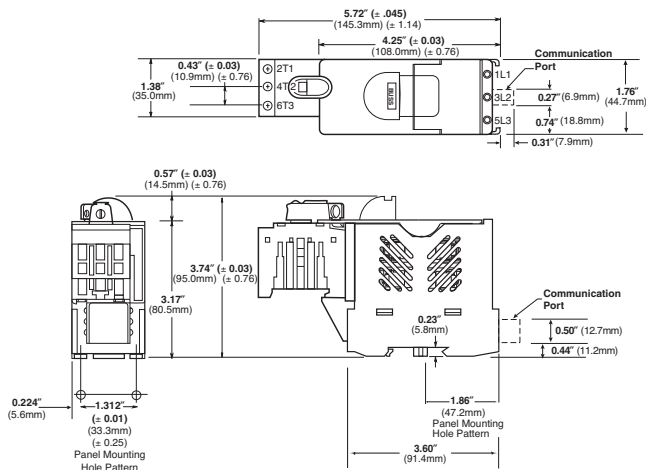
### Features/benefits

- Padlockable with finger-safe terminals for safety. Qualified as IP20 per IEC 60529.
- Cam-action handle for easy module removal, offered with Class CC rejection clips or European 10 x 38mm clips to meet global needs
- Wire ready with 35mm DIN-Rail or screw panel mounting (#8 screw, 1<sup>1</sup>/<sub>4</sub>" long) saves installation time
- Fuse indication lights with option for remote fuse status available. See Data Sheet for additional wiring details.

### Typical applications

- Industrial control
- Process control systems
- Automated warehouse systems
- Individual control circuits

### Dimensions



### Catalog numbers

| Catalog numbers | Electrical rating  | SCCR** rating | Clips                                                                                       | Remote open fuse indication | UL information std. | File    | Guide | IEC         | CE  |
|-----------------|--------------------|---------------|---------------------------------------------------------------------------------------------|-----------------------------|---------------------|---------|-------|-------------|-----|
| OPM-1038SW      | 30A, 600Vac UL/CSA | *             | Non-rejection, 10x38mm or 1 <sup>3</sup> / <sub>2</sub> " x 1 <sup>1</sup> / <sub>2</sub> " | No                          | Recognized          |         |       |             |     |
|                 | 32A, 660Vac IEC    |               |                                                                                             |                             | UL 508              | E161278 | NLRV2 | IEC 60947-3 | Yes |
| OPM-1038RSW     | 30A, 600Vac UL/CSA | 100kA         | Rejection, Class CC                                                                         | No                          | Listed UL 508       | E161278 | NLRV  |             | Yes |
| OPM-1038SWC     | 30A, 600Vac UL/CSA | *             | Non-rejection, 10x38mm or 1 <sup>3</sup> / <sub>2</sub> " x 1 <sup>1</sup> / <sub>2</sub> " | Yes                         | Recognized          |         |       |             |     |
|                 | 32A, 660Vac IEC    |               |                                                                                             |                             | UL 508              | E161278 | NLRV2 | IEC 60947-3 | No  |
| OPM-1038RSWC    | 30A, 600Vac UL/CSA | 100kA         | Rejection, Class CC                                                                         | Yes                         | Listed UL 508       | E161278 | NLRV  |             | No  |

\*Rating varies depending on fuse used in module; 10kA default, higher SCCR requires testing and certification.

\*\*Short-Circuit Current Rating

Data Sheet: 1103

## OPM-1038



### Catalog number build-a-code

| Series                                                                  | Fuse type                                                                                | Communication                    |
|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------|----------------------------------|
| <b>O</b> <b>P</b> <b>M</b> <b>-</b> <b>1</b> <b>0</b> <b>3</b> <b>8</b> | <b>Blank</b> = 10 x 38mm or $1\frac{3}{32}" \times 1\frac{1}{2}"$<br><b>R</b> = Class CC | <b>C</b> = Communication feature |

### Specifications

**Description:** 3-pole modular fuse holder for  $1\frac{3}{32}" \times 1\frac{1}{2}"$  (10 x 38mm) fuses.

**Dimensions:** See dimensions illustration.

**Poles:** 3

**Agency information:** CE, UL (see table), CSA Certified, C22.2 No. 4248, Class 6225-01, File 47235, IEC (see table).

**Flammability rating:** UL 94V0.

### Recommended fuse types

| Class CC | Midget (non-rejection) | European |
|----------|------------------------|----------|
| LP-CC    | KTK BAF                | C10M     |
| KTK-R    | FNM KLM                | C10G     |
| FNQ-R    | FNQ                    |          |

### Physical characteristics

- Small size matches 45mm IEC starter width
- Accepts #8-18 AWG stranded, #10-18 AWG solid wire
- 3-pole

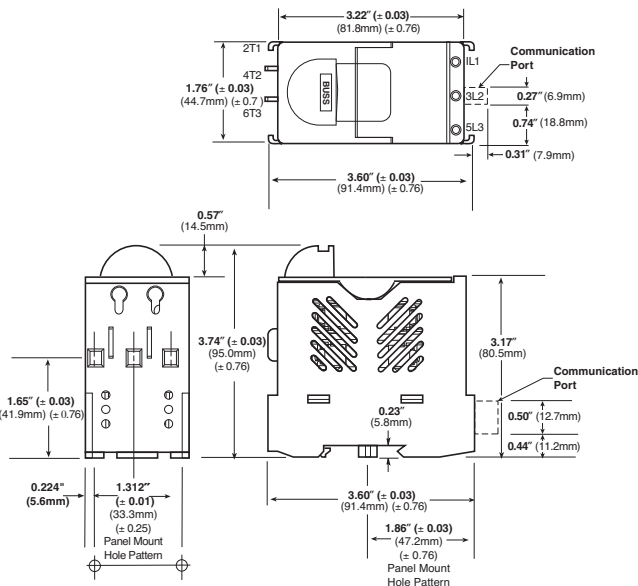
### Features/benefits

- Padlockable with finger-safe terminals for safety. Qualified as IP20 per IEC 529.
- Cam-action handle for easy module removal.
- Offered with Class CC rejection clips or European 10 x 38mm clips to meet global needs
- Wire ready with 35mm DIN-Rail or screw panel mounting (#8 screw, 1  $\frac{1}{4}"$  long) saves installation time
- Fuse indication lights with option for remote fuse status indication. See Data Sheet for additional wiring details.

### Typical applications

- Industrial control
- Process control systems
- Automated warehouse systems
- Individual control circuits

### Dimensions



### Catalog numbers

| Catalog numbers | Electrical rating                                             | SCCR** rating | Clips                                                             | Remote open fuse indication | UL information std. | File   | Guide | IEC           | CE  |
|-----------------|---------------------------------------------------------------|---------------|-------------------------------------------------------------------|-----------------------------|---------------------|--------|-------|---------------|-----|
| OPM-1038        | 30A, 600Vac/dc UL/CSA (Max 3 Watts per fuse)<br>32A, 660V IEC | *             | Non-rejection, 10 x 38mm or $1\frac{3}{32}" \times 1\frac{1}{2}"$ | No                          | Recognized UL 4248  | E14853 | IZLT2 | IEC 60269-2-1 | Yes |
| OPM-1038R       | 30A, 600Vac/dc UL/CSA                                         | 200kA         | Rejection, Class CC                                               | No                          | Listed UL 4248      | E14853 | IZLT  |               | Yes |
| OPM-1038C       | 30A, 600Vac/dc UL/CSA (Max 3 Watts per fuse)<br>32A, 660V IEC | *             | Non-rejection, 10 x 38mm or $1\frac{3}{32}" \times 1\frac{1}{2}"$ | Yes                         | Recognized UL 4248  | E14853 | IZLT2 | IEC 60269-2-1 | No  |
| OPM-1038RC      | 30A, 600Vac/dc UL/CSA                                         | 200kA         | Rejection, Class CC                                               | Yes                         | Listed UL 4248      | E14853 | IZLT  |               | No  |

\*Rating varies depending on fuse used in module; 10kA default, higher SCCR requires testing and certification.

\*\*Short-Circuit Current Rating

**OPM-NG-****Specifications****Description:**

**OPM-NG-SC3:** 3-pole Class CC fuse holder for use with Class CC fuses (Bussmann series LP-CC, FNQ-R, KTK-R).

**OPM-NG-SM3:** 3-pole fuse holder for use with  $\frac{13}{32}$ " x  $1\frac{1}{2}$ " and 10.3 x 38mm fuses (Bussmann series types:  $\frac{13}{32}$ " x  $1\frac{1}{2}$ "; KTK, FNQ, KLM, FNM, BAF, 10 x 38mm; FWA, FWC, C10G\_ \_ , C10M\_ \_).

**Ratings:**

Volts: — OPM-NG-SC3: 600Vac (or less)  
 — OPM-NG-SM3: 600Vac (or less) UL and CSA 30A  
 — OPM-NG-SM3: 690Vac (or less) IEC 32A

Amps: — OPM-NG-SC3: 0-30A  
 — OPM-NG-SM3: 0-30A

SCCR: — OPM-NG-SC3: 200kA  
 — OPM-NG-SM3: Same as fuse IR, 200kA maximum.

**Agency information:** CE, UL; OPM-NG-SC3 UL Listed, UL 4248, File E14853, Guide IZLT. OPM-NG-SM3, UL Recognized, UL 4248, File E14853, Guide IZLT2. CSA Certified, C22.2 No. 4248, Class 6225-01, File 47235. IEC 60947-3 Utilization Category AC20B.

**Handling and storage temperature:** -10° to 65°C.

**Features/benefits**

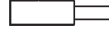
- 45mm width matches IEC starters
- 35mm DIN-Rail or panel mounting feature. Maximum screw size #8 (M4)
- Pressure plate terminations with dual-wire rated terminals (see wire table) and optional auxiliary contacts
- Integrated collapsible handle and fuse carrier cannot be removed from holder base
- Padlockable and IP20 finger-safe to IEC60529

**Typical applications**

- Mass produced control systems
- Process control systems
- Automated warehouse systems
- Individual control circuits

**Fuse holder wire range:**

- 75°Cu only
- #18-12 Single/dual, torque 15lb-in
- #10-8 Single/dual, torque 20lb-in
- Dual wire with same gauge and type

|          |                                                                                    | 75° Cu only |         | <br>(N·m)/lb-in |
|----------|------------------------------------------------------------------------------------|-------------|---------|----------------------------------------------------------------------------------------------------|
|          |                                                                                    | AWG         | [mm2]   |                                                                                                    |
| Solid    |  | #18-8 x 1   | 1-6 x 1 | 18-12 Single/dual<br>15lb-in (1.7 N·m)                                                             |
|          |                                                                                    | #18-8 x 2   | 1-6 x 2 |                                                                                                    |
| Stranded |  | #18-8 x 1   | 1-6 x 1 | 10-8 Single/dual<br>20lb-in (2.5 N·m)                                                              |
|          |                                                                                    | #18-8 x 2   | 1-6 x 2 |                                                                                                    |
| Ferrules |  | 1-4 x 1     | 1-4 x 1 |                                                                                                    |
|          |                                                                                    | 1-4 x 2     | 1-4 x 2 |                                                                                                    |

**Input power terminal wire range:**

|                           |                    |                                                                                                                |
|---------------------------|--------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Wiring</b>             | Solid conductor    | (1) #14 to #2 (1.5 to 25mm <sup>2</sup> ) conductor or<br>(2) #14 to #6 (1.5 to 10mm <sup>2</sup> ) conductors |
|                           | Stranded conductor | (1) #14 to #2 (1.5 to 25mm <sup>2</sup> ) conductor or<br>(2) #12 to #6 (2.5 to 10mm <sup>2</sup> ) conductors |
| <b>Tightening torque:</b> | Connector          | 20lb-in (2.2 N·m)                                                                                              |
|                           | screw clamp        | 15lb-in (1.7 N·m)                                                                                              |

**Materials:**

- **Housing:** Thermoplastic - ULV2
- **Clip:** Tin-plated copper alloy
- **Contact lubricant:** Fluoroether grease
- **Saddle screw:** Plated steel
- **DIN-Rail springs:** Stainless steel

**Optional accessories:****Comb bar (max current rating = 63A)**

| Catalog number | Description                         |
|----------------|-------------------------------------|
| GV2G245A46     | 2 circuit, 45mm between same phases |
| GV2G254A46     | 2 circuit, 54mm between same phases |
| GV2G272A46     | 2 circuit, 72mm between same phases |
| GV2G345A46     | 3 circuit, 45mm between same phases |
| GV2G354A46     | 3 circuit, 54mm between same phases |
| GV2G445A46     | 4 circuit, 45mm between same phases |
| GV2G454A46     | 4 circuit, 54mm between same phases |
| GV2G472A46     | 4 circuit, 72mm between same phases |
| GV2G554A46     | 5 circuit, 54mm between same phases |

**Input terminal block (max current rating = 63A)**

| Catalog number | Description                                                                                     |
|----------------|-------------------------------------------------------------------------------------------------|
| GV2G05         | Input/feed through power terminal, supports feed through to another system, DIN-Rail mount only |
| GVG09          | Input power terminal                                                                            |

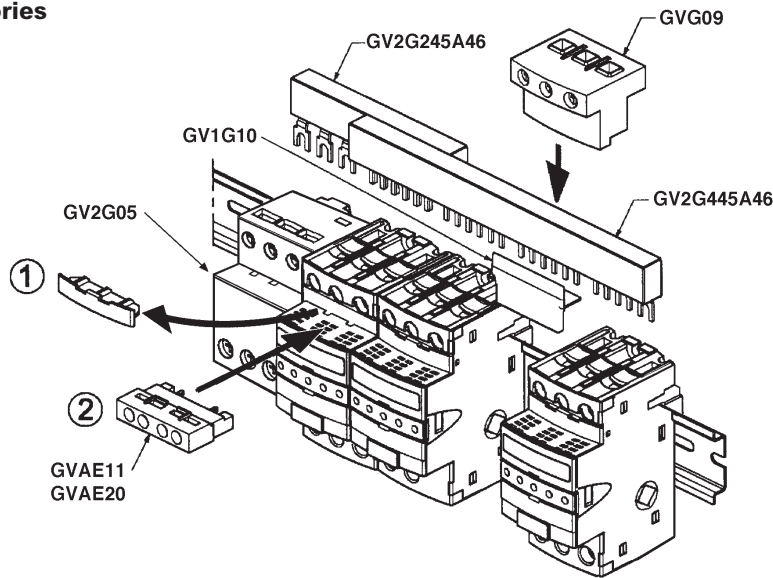
**Cover**

| Catalog number | Description                                       |
|----------------|---------------------------------------------------|
| GV1G10         | Protective cover for unused terminals on comb bar |

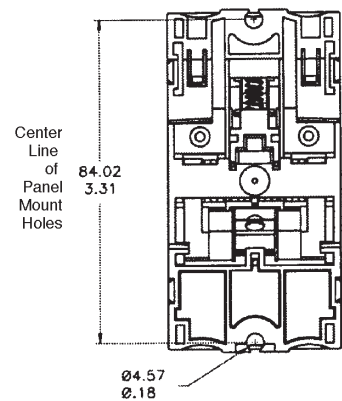
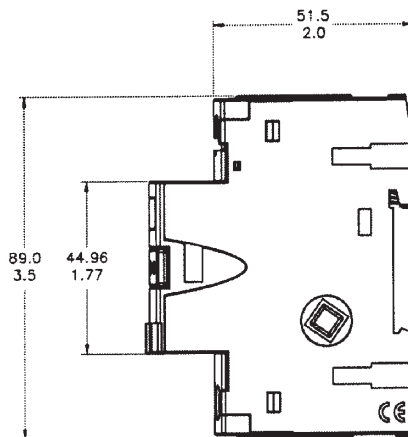
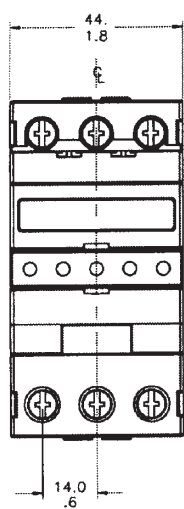
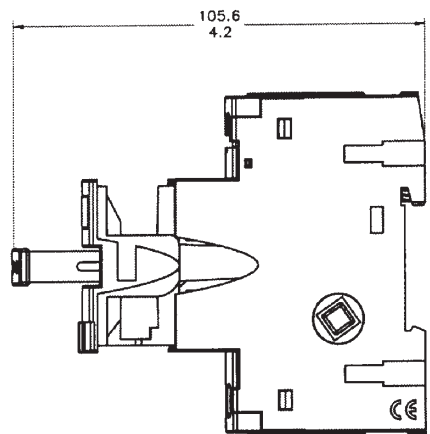
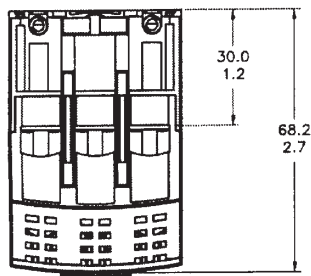
**Auxiliary contacts**

| Catalog number | Description |
|----------------|-------------|
| GVAE11         | NO/NC       |
| GVAE20         | NO/NO       |

Optional accessories



Dimensions - mm (± 0.38) / in (± .015)



**Safety J™ — JT(N)60030 and JT(N)60060****Specifications**

**Description:** Indicating and non-indicating finger-safe, DIN-Rail mount fuse holders for use with Class J fuses - (Bussmann series LPJ, JKS).

**Dimensions:** See dimensions illustrations.

**Ratings:**

Volts: — 600Vac

Amps: — 0-60A (JT(N)60060)

— 0-30A (JT(N)60030)

SCCR: — 200kA RMS Sym.

— 300kA self certified using Bussmann series LPJ\_SP fuses

**Agency information:** CE, Listed to UL 4248: Guide IZLT, File 14853, CSA Certified: Class 6225-01, File 47235. IP20 per IEC 60529.

**Flammability rating:** UL 94V0.

**Indication:** Min voltage: 90V; neon lamp “ON” when fuse opens, voltage source and current path are present.

**Terminations:** 30A dual port torque 20lb-in, 60A single port torque 45lb-in, terminal construction, tin-plated copper alloy.

**Wire size:** JT(N)60030 - rated for 75°C, AWG#18-#8; Cu only, JT(N)60060 - rated for 75°C, AWG#14-#4; Cu only.

(Note: For JT(N)60030 use both stranded or solid, in a variety of dual wire combinations of same wire size and type.)

**Features and benefits**

- Short-Circuit Current Rating of 300kA with Bussmann series LPJ\_\_SP fuses.
- Rapid, flexible 35 mm DIN-Rail mounting.
- One piece interlocking design for assembling multiple pole blocks reduces inventory costs.
- Removable fuse carrier allows fuse replacement away from base while maintaining finger-safe rating.

**Typical applications**

- Industrial controls
- Process controls
- Small HP VFDs

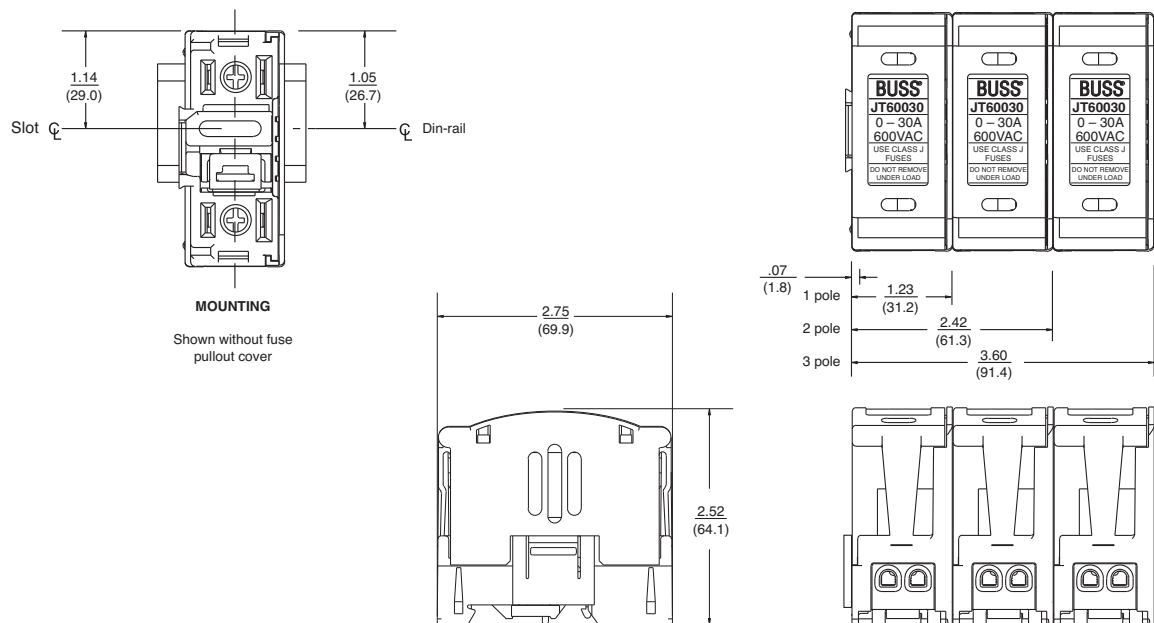
**Catalog numbers**

| Catalog numbers | Amps | Indication        |
|-----------------|------|-------------------|
| JT60030         | 30   | Non-indicating    |
| JT60060         | 60   | Non-indicating    |
| JTN60030        | 30   | Indicating (neon) |
| JTN60060        | 60   | Indicating (neon) |

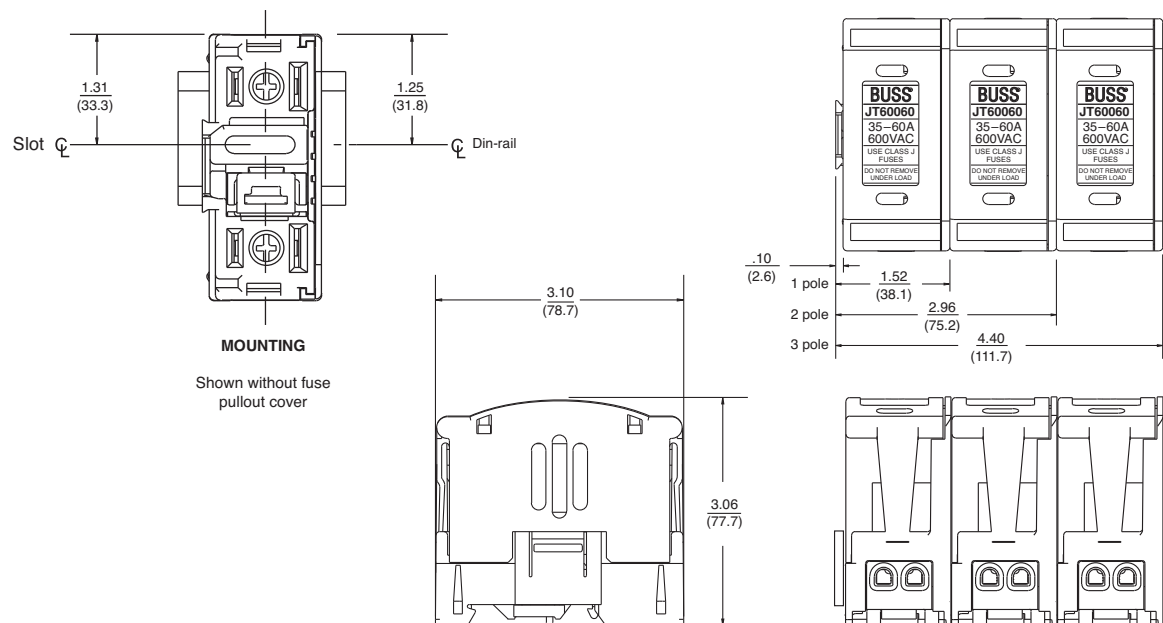
**30A version****60A version**



Dimensions for JT60030 and JTN60030 — in (mm)



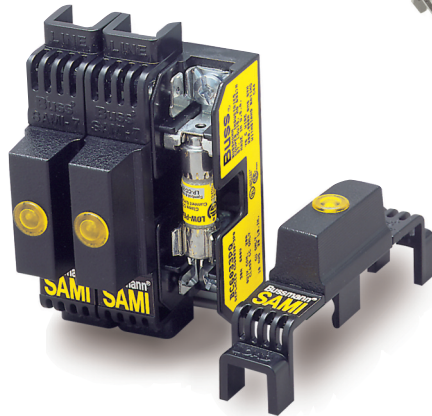
Dimensions for JT60060 and JTN60060 — in (mm)



JT(N)600 series fuse blocks can be dovetailed together within the same current rating to provide multiple pole block configurations.

NOTE: JT(N)60030 cannot be dovetailed to JT(N)60060.

## SAMI fuse covers



## Specifications

**Description:** Indicating and non-indicating fuse covers for Class J, RK1, RK5, H, K5, CC, G (0-30A) and midget-type fuses. Indicating feature requires a minimum of 90V to illuminate lamp. One cover required for each pole.

**WARNING:** To avoid electrical shock, turn power off before installing, removing or servicing.

**Dimensions:** See dimensions illustration.

**Agency information:** CE, UL Listed; SAMI-1I through SAMI-6I, SAMI-8I and SAMI-9I, SAMI-1N through SAMI-6N, SAMI-8N and SAMI-9N, UL Recognized; Guide JDVS2, File E58836, SAMI-7I and SAMI-7N, CSA Certified, File LR47235-93C.

## Catalog numbers

| Catalog numbers* | Description                                                        | Dimensions - in |      |      |
|------------------|--------------------------------------------------------------------|-----------------|------|------|
|                  |                                                                    | A               | B    | C    |
| SAMI-1_          | 600V, J (0-30A) and 600V, T (35-60A)**<br>250V, RK, K5, H (35-60A) | 5.02            | 1.03 | 1.94 |
| SAMI-2_          | 600V, RK, K5, H (0-30A)                                            | 7.03            | 1.30 | 2.07 |
| SAMI-3_          | 600V, J (65-100A)                                                  | 7.03            | 1.30 | 2.33 |
| SAMI-4_          | 250V, RK, K5, H (65-100A)                                          | 8.20            | 1.30 | 2.18 |
| SAMI-5_          | 600V, RK, K5, H (35-60A)                                           | 8.20            | 1.30 | 2.18 |
| SAMI-6_          | 600V, J (35-60A)                                                   | 4.98            | 1.17 | 2.14 |
| SAMI-7_          | 600V, Midget, Class CC, G (0-30A)                                  | 3.82            | 0.75 | 1.72 |
| SAMI-8†_         | 600V, RK††, K5, H (65-100A)                                        | 10.38           | 1.50 | 2.33 |
| SAMI-9_          | 250V, RK, K5, H (0-30A) and 600V, T (0-30A)                        | 3.82            | 0.75 | 1.72 |

\*For indicating cover, add suffix "I", for non-indicating cover, add suffix "N".  
Example: SAMI-7I = Indicating, SAMI-7N = Non-indicating.

\*\*Available in non-indicating only.

†SAMI-8A adapter available for small Fusetron™ body design. SAMI-8I and SAMI-8N come standard with adapter (SAMI-8A).

††Not for use with KTS-R fuses.

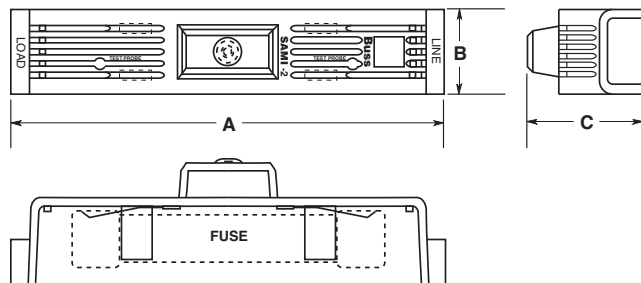
## Features and benefits

- Insulated cover allows field conversion of fuses mounted in open fuse blocks.
- Optional open fuse indicating light aids in system troubleshooting.
- Units are re-usable.
- Allows visual marking of line and load side of fuses.

## Typical applications

- Class H, R and J fuse blocks up to 100A
- Class T fuse blocks up to 60A
- Class CC, G and Midget, 30A fuse blocks

## Dimensions



### Class R, H(K), and J applications up to 600 amps

#### Specifications

##### Ratings:

Volts: — 250V, 600V  
 Amps: — 70-600A  
 SCCR: — 200kA (Class R and J)  
 10kA (Class H and K)

##### Agency information:

**Blocks:** UL - Listed cULus  
 E14853 – IZLT & IZLT7  
 CSA - Certified 47235 –  
 6225-01

**Covers:** UL - Listed UL  
 E58836 – JDVS2  
 CSA - Certified 47235 –  
 6225-01

##### Flammability ratings:

**Blocks:** UL 94V0, self-extinguishing

**Covers:** UL 94HB, self-extinguishing

##### Operating and storage temperature range:

**Blocks** -40°C to 120°C

**Covers** non-indicating covers -40°C to 120°C  
 indicating covers -20°C to 90°C

##### Materials:

Base – Thermoplastic  
 Box Lug – Tin-plated aluminum

##### Wire:\*

Cu/Al – 75°C/90°C (100 - 200A)  
 Cu/Al – 75°C only (400 - 600A)

\*Higher temperature rated wire can be used with appropriate derating.



RoHS

#### Features and benefits

- Integral dovetails allow snapping together multiple poles at point-of-use for greater application flexibility
- Factory assembled two- and three-pole configurations available
- Up to four mounting holes per pole increase installation flexibility
- Standard phase barriers between poles for additional safety
- Design meets UL creep and clearance requirements for Industrial Control Circuits (UL 508 and UL 845)
- 200 to 600A blocks meet the higher UL creep and clearance requirements for Industrial Power Distribution Standards (UL 98, UL 69, UL 489, UL 891 and UL 869A)
- Optional IP20 finger-safe covers available on entire knifeblade fuse block product line:
  - High-clarity see-through covers allow for inspecting wire terminations or thermography measurements without removing cover
  - Probe holes included for easy, safer testing and troubleshooting
  - Built-in lockout/tagout feature improves safety
- Standard fuse clip reinforcing springs enhance electrical contact

#### Typical applications

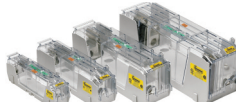
- Critical power, factory automation, renewable energy, HVAC, building/elevator controls, building entrance, process industries

## Fuse holders and blocks

### Modular knifeblade fuse blocks part number table



250V Class R and H(K)



600V Class R and H(K)



Class J

| Catalog number |             | Covers*        |               | Volts | Fuse range<br>(amps) | Number<br>of poles | Wire range<br>(solid and stranded)***    | Wire range<br>(fine stranded Cu) | Torque<br>N•m (Lb-In) | Bussmann<br>series fuses              |
|----------------|-------------|----------------|---------------|-------|----------------------|--------------------|------------------------------------------|----------------------------------|-----------------------|---------------------------------------|
| Class H(K)     | Class R     | w/o indication | w/ indication |       |                      |                    |                                          |                                  |                       |                                       |
| HM25100-1CR    | RM25100-1CR | CVR-RH-25100   | CVRI-RH-25100 | 250   | 70-100               | 1                  | –                                        | 1-3 AWG                          | 6.2 (55)              | Class H(K):<br>NON, CDN,<br>PON       |
| HM25100-2CR    | RM25100-2CR |                |               |       |                      | 2                  | 1/0-3 AWG; (2) Cu 4-6 AWG                | 4-6 AWG                          | 5.6 (50)              |                                       |
| HM25100-3CR    | RM25100-3CR |                |               |       |                      | 3                  | 4-6 AWG; (2) Cu 8 AWG                    | 8 AWG                            | 5.1 (45)              |                                       |
|                |             |                |               |       |                      |                    | 8 AWG; (2) Cu 10-14 AWG                  | –                                | 4.5 (40)              |                                       |
|                |             |                |               |       |                      |                    | Cu 10-14 AWG; Al 10-12 AWG               | –                                | 4.0 (35)              |                                       |
| HM25200-1CR    | RM25200-1CR | CVR-RH-25200   | CVRI-RH-25200 |       | 110-200              | 1                  | 250 MCM-1 AWG                            | 3/0-1 AWG                        | 42 (375)              | Class R:<br>LPN-RK_SP<br>LPN-RK_SPI** |
| HM25200-2CR    | RM25200-2CR |                |               |       |                      | 2                  | 2-6 AWG; (2) Cu 2-6 AWG                  | 2-6 AWG                          | 31 (275)              |                                       |
| HM25200-3CR    | RM25200-3CR |                |               |       |                      | 3                  |                                          |                                  |                       |                                       |
| HM25400-1CR    | RM25400-1CR | CVR-RH-25400   | CVRI-RH-25400 |       | 225-400              | 1                  | 600kcmil                                 | N/A                              | 57 (500)              | FRN-R<br>KTN-R                        |
| HM25400-2CR    | RM25400-2CR |                |               |       |                      | 2                  | 500kcmil-4 AWG                           |                                  | 51 (450)              |                                       |
| HM25400-3CR    | RM25400-3CR |                |               |       |                      | 3                  | (2) Cu 3/0 - 4 AWG<br>(2) Al 3/0 - 4 AWG |                                  | 57 (500)<br>34 (300)  |                                       |
| HM25600-1CR    | RM25600-1CR | CVR-RH-25600   | CVRI-RH-25600 |       | 450-600              | 1                  | (2) 500kcmil-4 AWG                       | N/A                              | 51 (450)              |                                       |
| HM25600-2CR    | RM25600-2CR |                |               | 2     |                      |                    |                                          |                                  |                       |                                       |
| HM25600-3CR    | RM25600-3CR |                |               | 3     |                      |                    |                                          |                                  |                       |                                       |
| HM60100-1CR    | RM60100-1CR | CVR-RH-60100   | CVRI-RH-60100 | 600   | 70-100               | 1                  | –                                        | 1-3 AWG                          | 6.2 (55)              | Class H(K):<br>NOS,<br>CDS            |
| HM60100-2CR    | RM60100-2CR |                |               |       |                      | 2                  | 1/0-3 AWG; (2) Cu 4-6 AWG                | 4-6 AWG                          | 5.6 (50)              |                                       |
| HM60100-3CR    | RM60100-3CR |                |               |       |                      | 3                  | 4-6 AWG; (2) Cu 8 AWG                    | 8 AWG                            | 5.1 (45)              |                                       |
|                |             |                |               |       |                      |                    | 8 AWG; (2) Cu 10-14 AWG                  | –                                | 4.5 (40)              |                                       |
|                |             |                |               |       |                      |                    | Cu 10-14 AWG; Al 10-12 AWG               | –                                | 4.0 (35)              |                                       |
| HM60200-1CR    | RM60200-1CR | CVR-RH-60200   | CVRI-RH-60200 |       | 110-200              | 1                  | 250 MCM-1 AWG                            | 3/0-1 AWG                        | 42 (375)              | Class R:<br>LPS-RK_SP<br>LPS-RK_SPI** |
| HM60200-2CR    | RM60200-2CR |                |               |       |                      | 2                  | 2-6 AWG; (2) Cu 2-6 AWG                  | 2-6 AWG                          | 31 (275)              |                                       |
| HM60200-3CR    | RM60200-3CR |                |               |       |                      | 3                  |                                          |                                  |                       |                                       |
| HM60400-1CR    | RM60400-1CR | CVR-RH-60400   | CVRI-RH-60400 |       | 225-400              | 1                  | 600kcmil                                 | N/A                              | 57 (500)              | FRS-R<br>KTS-R<br>KWS-R<br>PVS-R      |
| HM60400-2CR    | RM60400-2CR |                |               |       |                      | 2                  | 500kcmil-4 AWG                           |                                  | 51 (450)              |                                       |
| HM60400-3CR    | RM60400-3CR |                |               |       |                      | 3                  | (2) Cu 3/0 - 4 AWG<br>(2) Al 3/0 - 4 AWG |                                  | 57 (500)<br>34 (300)  |                                       |
| HM60600-1CR    | RM60600-1CR | CVR-RH-60600   | CVRI-RH-60600 |       | 450-600              | 1                  | (2) 500kcmil-4 AWG                       | N/A                              | 51 (450)              |                                       |
| HM60600-2CR    | RM60600-2CR |                |               | 2     |                      |                    |                                          |                                  |                       |                                       |
| HM60600-3CR    | RM60600-3CR |                |               | 3     |                      |                    |                                          |                                  |                       |                                       |

| Catalog number | Covers*        |                            | Volts   | Fuse range<br>(amps) | Number<br>of poles | Wire range<br>(solid and stranded)*** | Wire range<br>(fine stranded) | Torque<br>N•m (Lb-In) | Bussmann<br>series fuses              |
|----------------|----------------|----------------------------|---------|----------------------|--------------------|---------------------------------------|-------------------------------|-----------------------|---------------------------------------|
| Class J        | w/o indication | w/ indication              |         |                      |                    |                                       |                               |                       |                                       |
| JM60100-1CR    | CVR-J-60100-M  | CVRI-J-60100-M             | 600     | 70-100               | 1                  | –                                     | 1-3 AWG                       | 6.2 (55)              | LPJ_SP<br>LPJ_SPI**<br><br>JKS<br>DFJ |
| JM60100-2CR    |                |                            |         |                      | 2                  | 1/0-3 AWG; (2) Cu 4-6 AWG             | 4-6 AWG                       | 5.6 (50)              |                                       |
| JM60100-3CR    |                |                            |         |                      | 3                  | 4-6 AWG; (2) Cu 8 AWG                 | 8 AWG                         | 5.1 (45)              |                                       |
|                |                | 8 AWG; (2) Cu 10-14 AWG    |         | –                    | 4.5 (40)           |                                       |                               |                       |                                       |
|                |                | Cu 10-14 AWG; Al 10-12 AWG |         | –                    | 4.0 (35)           |                                       |                               |                       |                                       |
| JM60200-1CR    | CVR-J-60200-M  | CVRI-J-60200-M             |         | 110-200              | 1                  | 250 MCM-1 AWG                         | 3/0-1 AWG                     | 42 (375)              |                                       |
| JM60200-2CR    |                |                            |         |                      | 2                  | 2-6 AWG; (2) Cu 2-6 AWG               | 2-6 AWG                       | 31 (275)              |                                       |
| JM60200-3CR    |                |                            |         |                      | 3                  |                                       |                               |                       |                                       |
| JM60400-1CR    | CVR-J-60400-M  | CVRI-J-60400-M             |         | 225-400              | 1                  | 600kcmil                              | N/A                           | 57 (500)              |                                       |
| JM60400-2CR    |                |                            |         |                      | 2                  | 500kcmil-4 AWG                        |                               | 51 (450)              |                                       |
|                |                |                            |         |                      |                    | (2) Cu 3/0 - 4 AWG                    |                               | 57 (500)              |                                       |
| JM60400-3CR    |                |                            |         |                      | 3                  | (2) Al 3/0 - 4 AWG                    |                               | 34 (300)              |                                       |
|                |                |                            |         |                      |                    |                                       |                               |                       |                                       |
| JM60400-1MW22† |                |                            |         |                      | 1                  | (2) 350kcmil-1 AWG                    | 42 (375)                      |                       |                                       |
| JM60400-2MW22† |                |                            |         |                      | 2                  | (2) 2 AWG - 6 AWG                     | 51 (275)                      |                       |                                       |
| JM60400-3MW22† | 3              |                            |         |                      |                    |                                       |                               |                       |                                       |
| JM60600-1CR    | CVR-J-60600    | CVRI-J-60600               | 450-600 | 1                    | (2) 500kcmil-4 AWG | N/A                                   | 51 (450)                      |                       |                                       |
| JM60600-2CR    |                |                            |         | 2                    |                    |                                       |                               |                       |                                       |
| JM60600-3CR    |                |                            |         | 3                    |                    |                                       |                               |                       |                                       |

\*Covers sold separately. Blown fuse indication requires 90 volts minimum and closed circuit to operate.

\*\*With *easyID™* blown fuse indication.

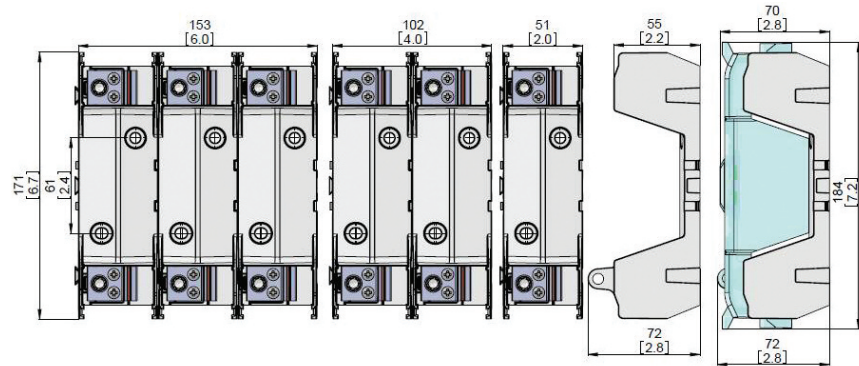
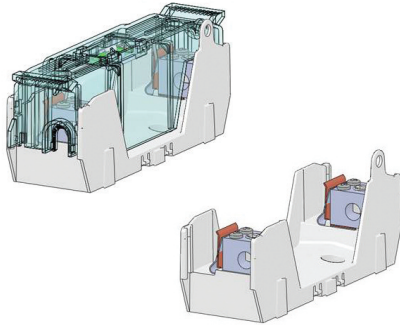
\*\*\*Ratings for copper and aluminum wire except where otherwise noted.

†For Class J 400A double box lug configuration, optional cover provides IP20 finger-safe protection for dual 350kcmil-300kcmil wires or one single 350kcmil-6 AWG wire.

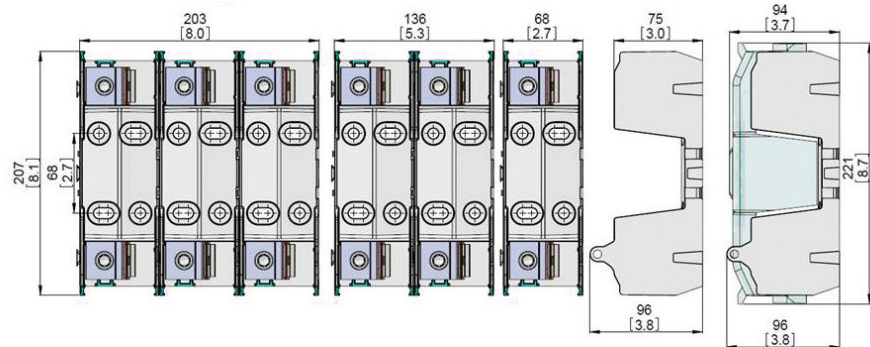
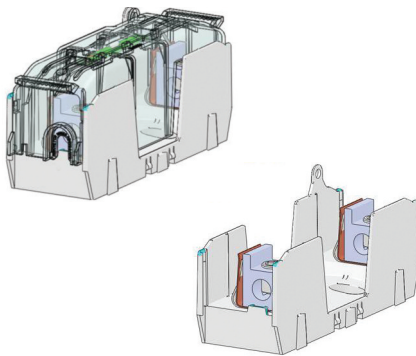


## Dimensions - mm (in)

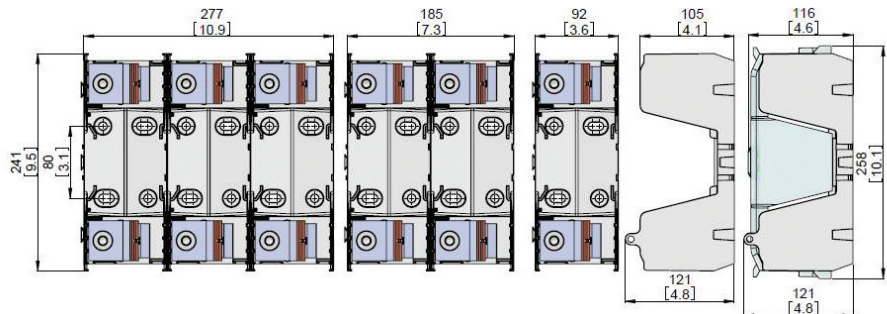
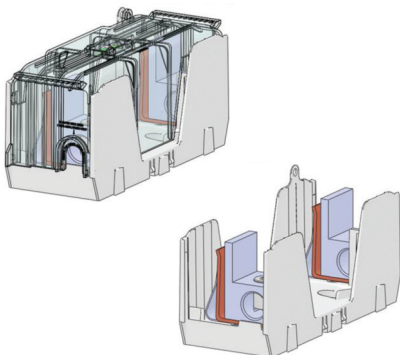
### 70-100A



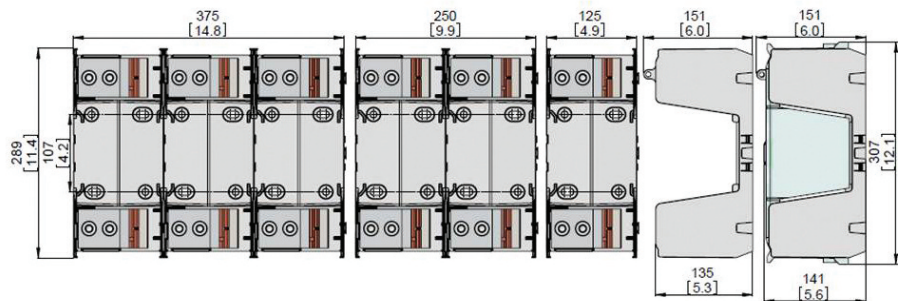
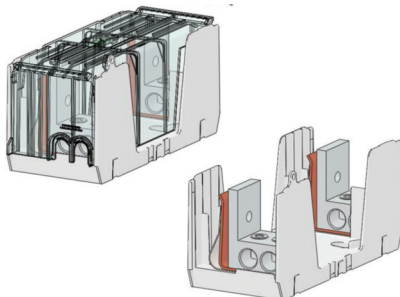
### 110-200A



### 225-400A



### 450-600A





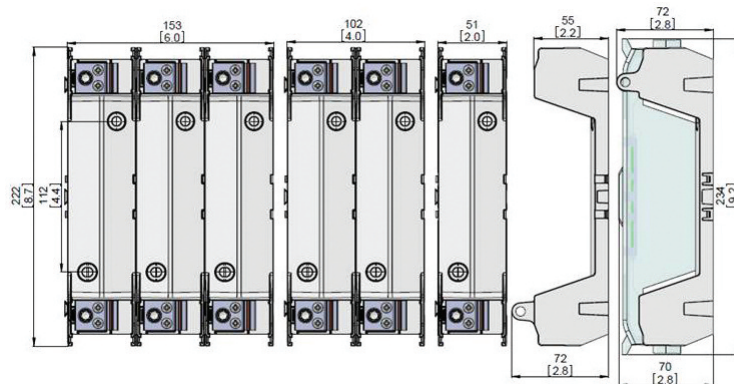
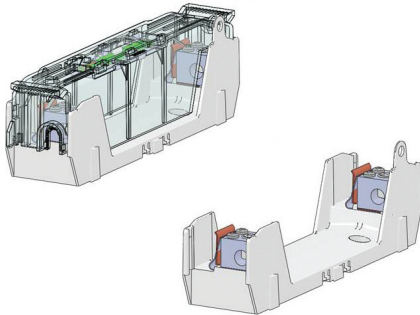
# 9

## Fuse holders and blocks

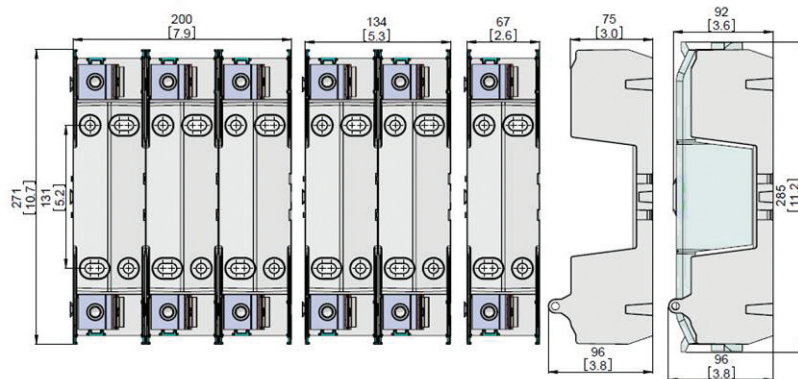
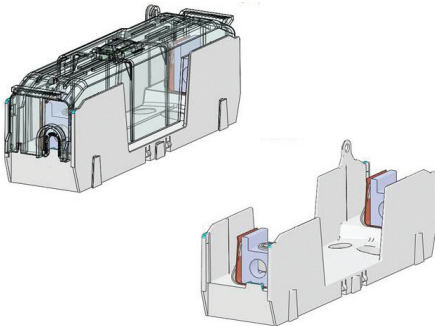
600V Class R and H(K) dimensional specifications

### Dimensions - mm (in)

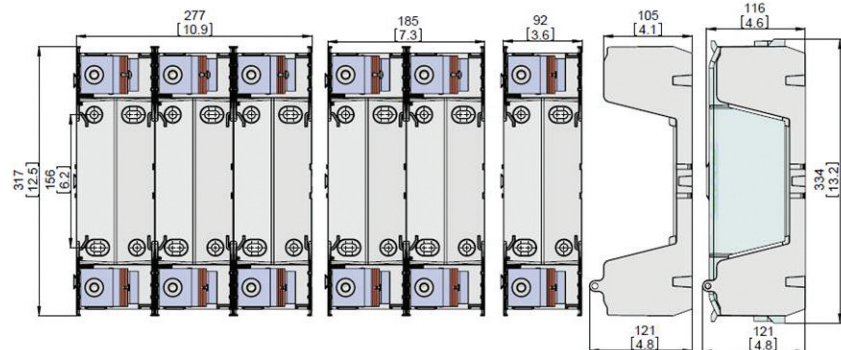
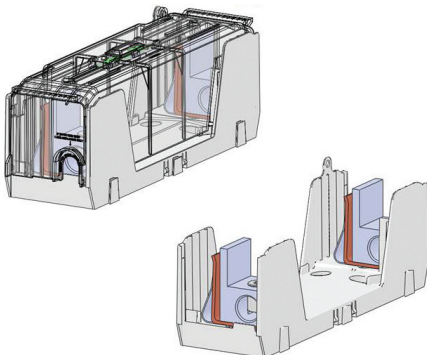
#### 70-100A



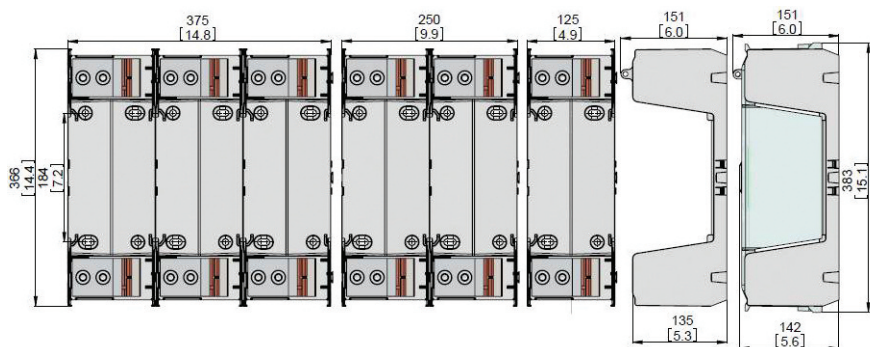
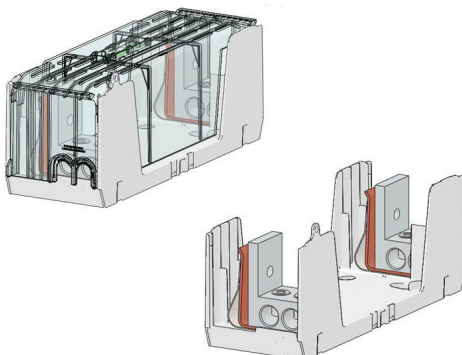
#### 110-200A



#### 225-400A

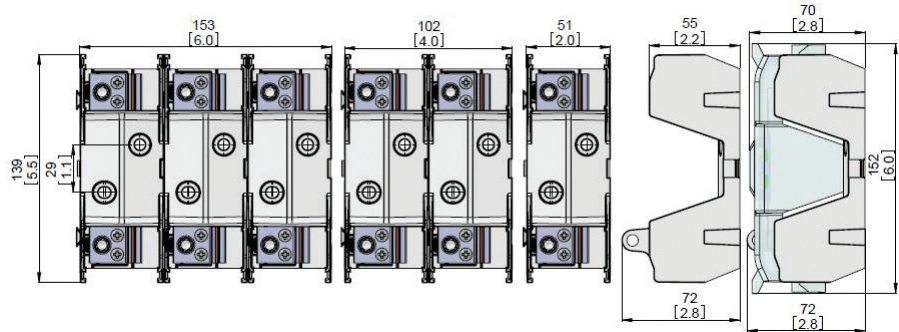
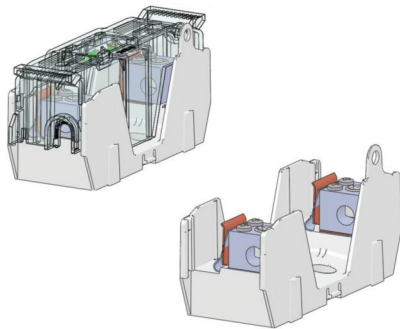


#### 450-600A

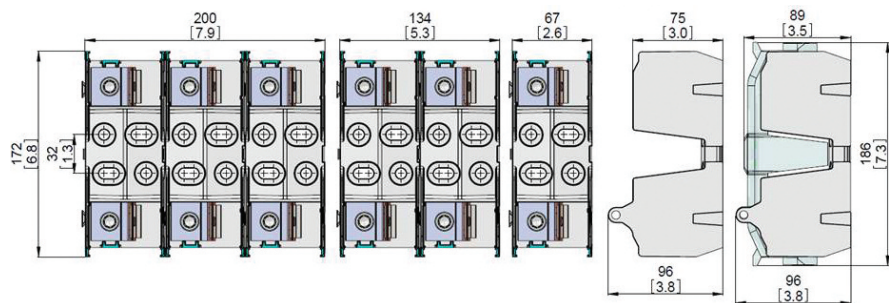
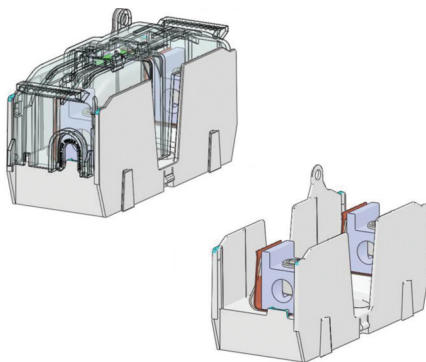


Dimensions - mm (in)

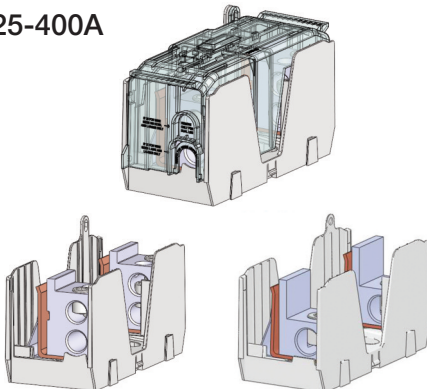
70-100A



110-200A

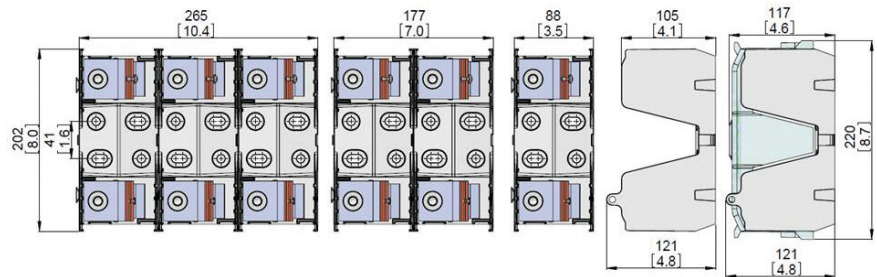


225-400A

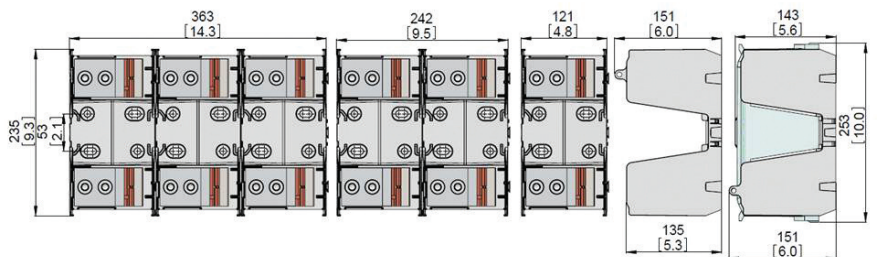
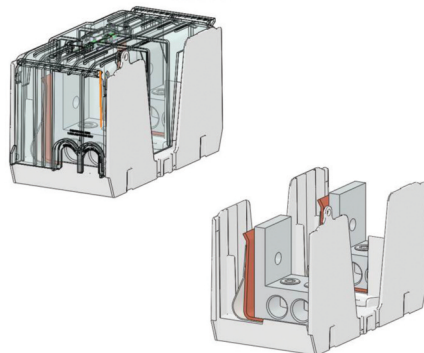


Double lug version

Standard lug version



450-600A





## Class J

### Specifications

#### Description:

New Class J fuse block features power distribution capability. This patented design simplifies your panel layout and uses up to 50% less panel space. Additionally, it lowers inventory costs while reducing installation time and labor by 33%.



#### Fuse Class:

- Class J

#### Ratings:

Volts - 600V  
Amps - 70-400A  
Withstand - 200kA Sym RMS

#### Agency information:

- Blocks: - UL Recognized E14853 – IZLT2  
- CSA Certified 47235 — 6225-01
- Covers: - UL Listed UL E58836 – JDVS2

#### Poles:

- 1-, 2-, 3-pole

#### Flammability ratings:

- Blocks: - UL 94V0, self-extinguishing
- Covers: - UL 94HB, self-extinguishing

#### Operating and storage temperature range:

- Blocks: -40°C to +120°C
- Covers: - Non-indicating -40°C to +120°C  
- Indicating -20°C to +90°C

#### Materials:

- Base: - Thermoplastic
- Terminals: - Tin-plated aluminum

#### Features and benefits:

- Combination power distribution block and fuse block reduces wire connections and total panel components, using 50% less panel space and reducing installation time and labor by 33%.
- A 200kA withstand rating helps achieve a higher assembly short-circuit current rating (SCCR) for compliance with NEC® sections 110.10, 409.110(4), 409.22, 440.4(B), 670.3(A)(4) and 670.5.
- Optional see-through cover enhances safety with IP20 finger-safe protection, lockout/tagout capability and open circuit indication.

#### Wire:

- 75°C CU/AL \*
- \* Conductors with higher temperature rating may be used, but at their 75°C ampacity.

#### Accessories:

- Optional IP20 finger-safe covers in indicating and non-indicating versions. Order one for each pole.

#### Recommended fuses (order separately):

- Time-delay Class J Low-Peak™ (see Data Sheet # 1007)
  - Indicating LPJ-(amp)SPI
  - Non-indicating LPJ-(amp)SP
- Fast-acting Class J Limitron™ (see Data Sheet # 1027)
  - Non-indicating JKS-(amp)
- High Speed Class J DFJ Drive Fuses (see Data Sheet # 1048)



Loadside view



Eaton power distribution fuse blocks are available preassembled into 1-, 2- and 3-pole versions. Individual blocks can be dovetailed together to achieve the desired number of poles. Use of covers requires ordering separately one cover for each pole.

\* With open fuse indication. 90V minimum and closed circuit required for illumination.  
 \*\* Dual wire rated lugs with same wire size.  
 † Copper conductor only.  
 †† Lineside dual box lug.  
 ††† Dual wire not for CSA installations.

Technical drawings of the 100A Block showing front, side, and end views with dimension labels A through I.

**Front View (Left):** Shows the 100A Block Mounting Holes. Dimensions include  $\varnothing N$ ,  $\varnothing O$ , M, L, J, and K.

**Top View (Middle):** Shows the overall dimensions A, B, C, D, J, and K.

**Side View (Right):** Shows the overall dimensions E, F, G, and H.

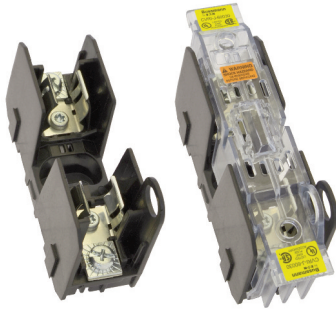
**End View (Far Right):** Shows the overall dimensions I and H.

## Fuse holders and blocks

**Class H(K), J and R****Specifications**

**Description:** HM Class H(K) JM Class J and RM Class R modular ferrule fuse blocks for fuses up to 60 amps.

These new Bussmann series fuse blocks contain multiple features that increase versatility, reduce labor and enhance safety for any panel or electrical system design.



**Ratings:**

- Volts      Class H 250V, 600V  
              Class J 600V  
              Class R 250V, 600V
- Amps      up to 60A
- Withstand Class J and R 200kA RMS Sym  
              Class H(K) 10kA RMS Sym

**Agency information:****Blocks:**

- UL Listed E14853 - IZLT
- CSA Certified 47235-6225-01
- CE
- RoHS Compliant

**Covers:**

- UL Listed E58836 - JDVS
- CSA Certified 47235-6225-01
- RoHS Compliant

**Poles:**

- 1-, 2-, 3-pole units factory assembled
- Single-pole units snap together to create desired number

**Flammability ratings:**

- Blocks — UL 94V0, self-extinguishing
- Covers — UL 94HB, self-extinguishing

**Operating and storage temperature range:**

- Blocks                                -40°C to +120°C
- Non-Indicating covers       -40°C to +120°C
- Indicating covers               -20°C to +90°C\*

\* Indication requires minimum 90Vac/dc and closed circuit to illuminate.

**Materials:**

- Base — Thermoplastic
- Terminals — Tin-plated copper brass
- Covers — Thermoplastic

**Features and benefits:**

- Available in 1-, 2-, and 3-pole configurations to meet stocking requirements.
- To reduce inventory, assembly time and labor, modular single-pole blocks snap-together for tool-less assembly of multiple poles at point of use.
- DIN-Rail and panel mount versatility allows one product to be used for multiple applications with lower inventory cost.
- Save panel space with the smallest width dimension on the market.
- Optional see-through, IP20 finger-safe covers enhance safety with lock-out/tag-out capability.
- Optional open fuse indication on covers speeds troubleshooting.
- Easy circuit identification with available universal marker labels for blocks and covers.

**Table 1. Terminals, conductors and torque values**

| Terminal type         | AWG type/range       | Torque |             |
|-----------------------|----------------------|--------|-------------|
|                       |                      | AWG    | Lb-in (N·m) |
| Box Lug ("CR" Option) | 75°C CU 2-14, AL 2-8 | 2-3;   | 50 (5.6)    |
|                       |                      | 4-6;   | 45 (5.1)    |
|                       |                      | 8;     | 40 (4.5)    |
|                       |                      | 10-14; | 35 (4.0)    |
| All other terminals*  | 75/90°C CU 10-18     | 10-18; | 20 (2.3)    |

\* 3/16" Quick Connect terminal maximum ampacity dependent on female spade connector and wire ratings.



**Table 2. Class H fuse block catalog numbers**

| Box lug     | Terminal type          |                           |                | Volts | Fuse amp range | Poles |
|-------------|------------------------|---------------------------|----------------|-------|----------------|-------|
|             | #10-32 Phil-slot screw | Screw with quick-connect* | Pressure plate |       |                |       |
| HM25030-1CR | HM25030-1SR            | HM25030-1QR               | HM25030-1PR    | 250   | 1/2 to 30      | 1     |
| HM25030-2CR | HM25030-2SR            | HM25030-2QR               | HM25030-2PR    |       |                | 2     |
| HM25030-3CR | HM25030-3SR            | HM25030-3QR               | HM25030-3PR    |       |                | 3     |
| HM25060-1CR | —                      | —                         | —              |       | 31 to 60       | 1     |
| HM25060-2CR | —                      | —                         | —              |       |                | 2     |
| HM25060-3CR | —                      | —                         | —              |       |                | 3     |
| HM60030-1CR | HM60030-1SR            | —                         | HM60030-1PR    | 600   | 1/2 to 30      | 1     |
| HM60030-2CR | HM60030-2SR            | —                         | HM60030-2PR    |       |                | 2     |
| HM60030-3CR | HM60030-3SR            | —                         | HM60030-3PR    |       |                | 3     |
| HM60060-1CR | —                      | —                         | —              |       | 31 to 60       | 1     |
| HM60060-2CR | —                      | —                         | —              |       |                | 2     |
| HM60060-3CR | —                      | —                         | —              |       |                | 3     |

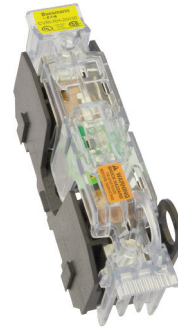
\* 3/16" Quick Connect terminal maximum ampacity dependent on female spade connector and wire ratings.

**Table 3. Class H block covers**

| Fuse block series | Volts | Amp range | Catalog numbers |                |
|-------------------|-------|-----------|-----------------|----------------|
|                   |       |           | Indicating      | Non-indicating |
| HM25030-#XX       | 250   | 1/2 to 30 | CVRI-RH-25030   | CVR-RH-25030   |
| HM25060-#XX       |       | 31 to 60  | CVRI-RH-25060   | CVR-RH-25060   |
| HM60030-#XX       | 600   | 1/2 to 30 | CVRI-RH-60030   | CVR-RH-60030   |
| HM60060-#XX       |       | 31 to 60  | CVRI-RH-60060   | CVR-RH-60060   |

# = number of poles

XX = terminal type



**Table 4. Class R fuse block catalog numbers**

| Box lug     | Terminal type          |                          |                | Volts | Fuse amp range | Poles |
|-------------|------------------------|--------------------------|----------------|-------|----------------|-------|
|             | #10-32 Phil-slot screw | Screw with quick-connect | Pressure plate |       |                |       |
| RM25030-1CR | RM25030-1SR            | RM25030-1QR              | RM25030-1PR    | 250   | 1/2 to 30      | 1     |
| RM25030-2CR | RM25030-2SR            | RM25030-2QR              | RM25030-2PR    |       |                | 2     |
| RM25030-3CR | RM25030-3SR            | RM25030-3QR              | RM25030-3PR    |       |                | 3     |
| RM25060-1CR | —                      | —                        | —              |       | 31 to 60       | 1     |
| RM25060-2CR | —                      | —                        | —              |       |                | 2     |
| RM25060-3CR | —                      | —                        | —              |       |                | 3     |
| RM60030-1CR | RM60030-1SR            | —                        | RM60030-1PR    | 600   | 1/2 to 30      | 1     |
| RM60030-2CR | RM60030-2SR            | —                        | RM60030-2PR    |       |                | 2     |
| RM60030-3CR | RM60030-3SR            | —                        | RM60030-3PR    |       |                | 3     |
| RM60060-1CR | —                      | —                        | —              |       | 31 to 60       | 1     |
| RM60060-2CR | —                      | —                        | —              |       |                | 2     |
| RM60060-3CR | —                      | —                        | —              |       |                | 3     |

\* 3/16" Quick Connect terminal maximum ampacity dependent on female spade connector and wire ratings.

**Table 5. Class R block covers**

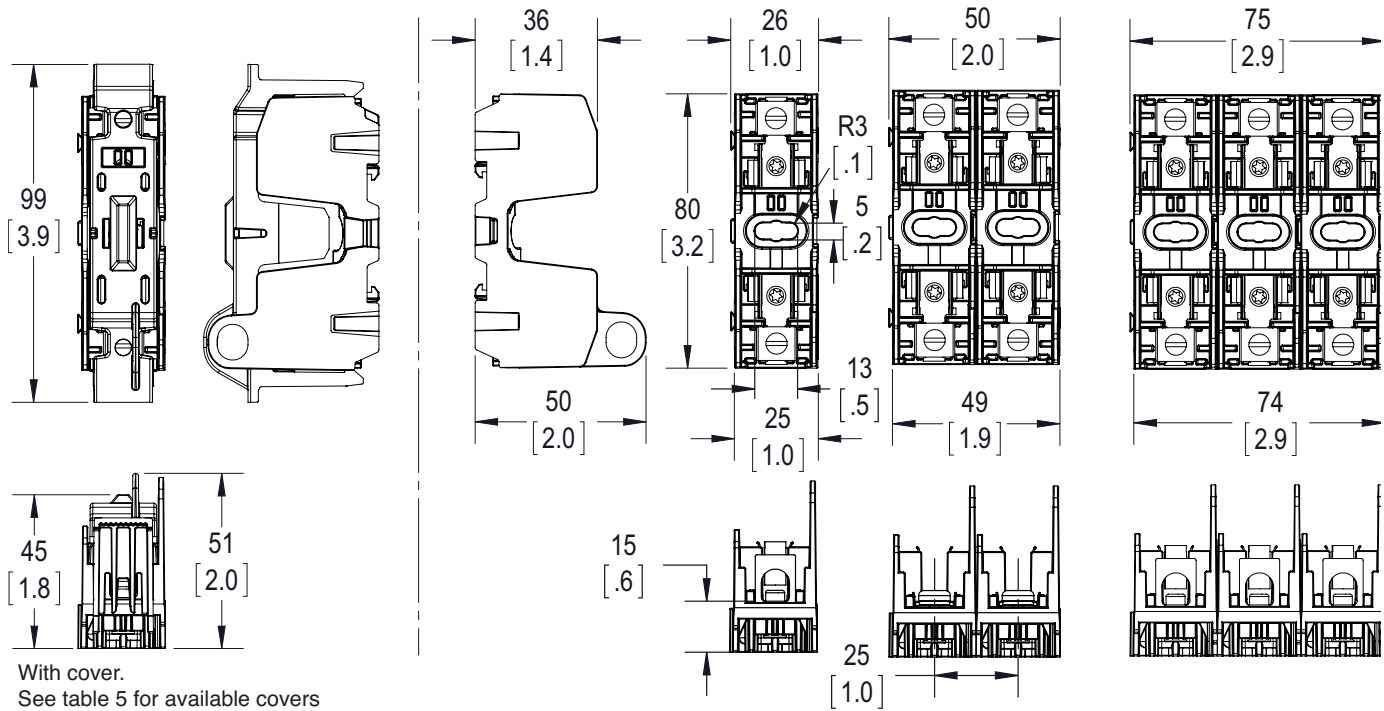
| Fuse block series | Volts | Amp range | Catalog numbers |                |
|-------------------|-------|-----------|-----------------|----------------|
|                   |       |           | Indicating      | Non-indicating |
| RM25030-#XX       | 250   | 1/2 to 30 | CVRI-RH-25030   | CVR-RH-25030   |
| RM25060-#XX       |       | 31 to 60  | CVRI-RH-25060   | CVR-RH-25060   |
| RM60030-#XX       | 600   | 1/2 to 30 | CVRI-RH-60030   | CVR-RH-60030   |
| RM60060-#XX       |       | 31 to 60  | CVRI-RH-60060   | CVR-RH-60060   |

# = number of poles

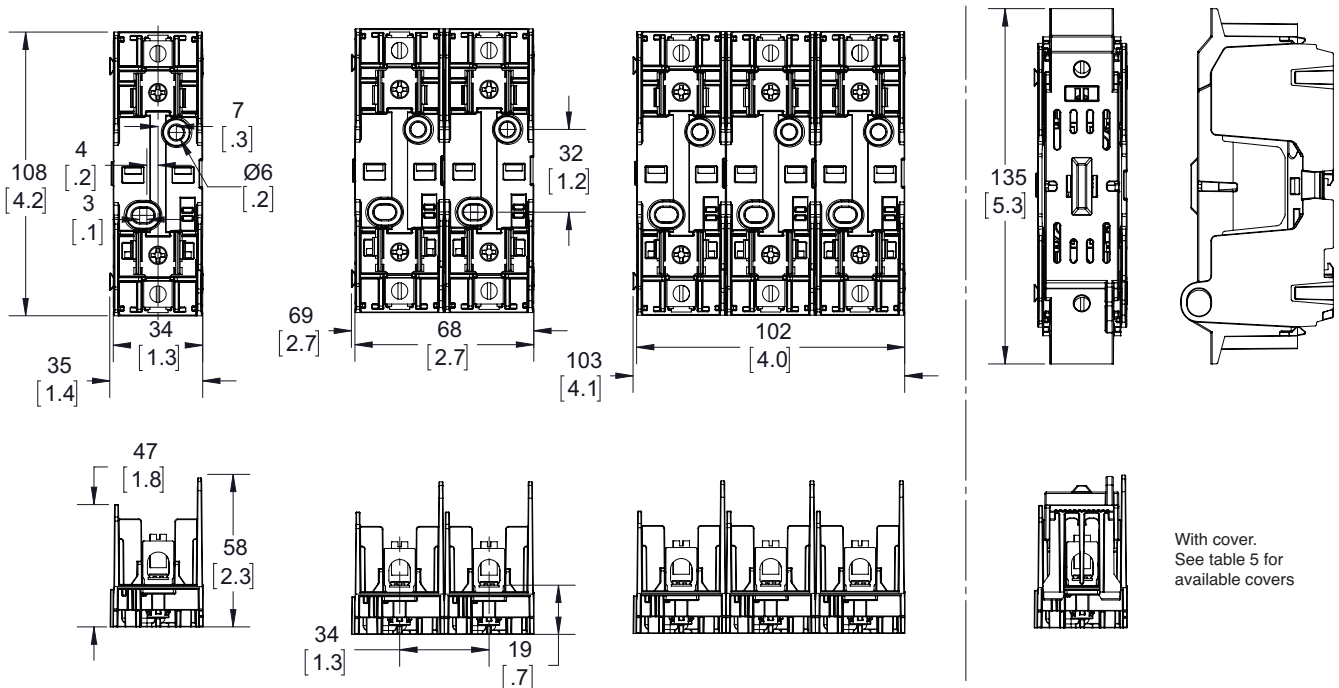
XX = terminal type



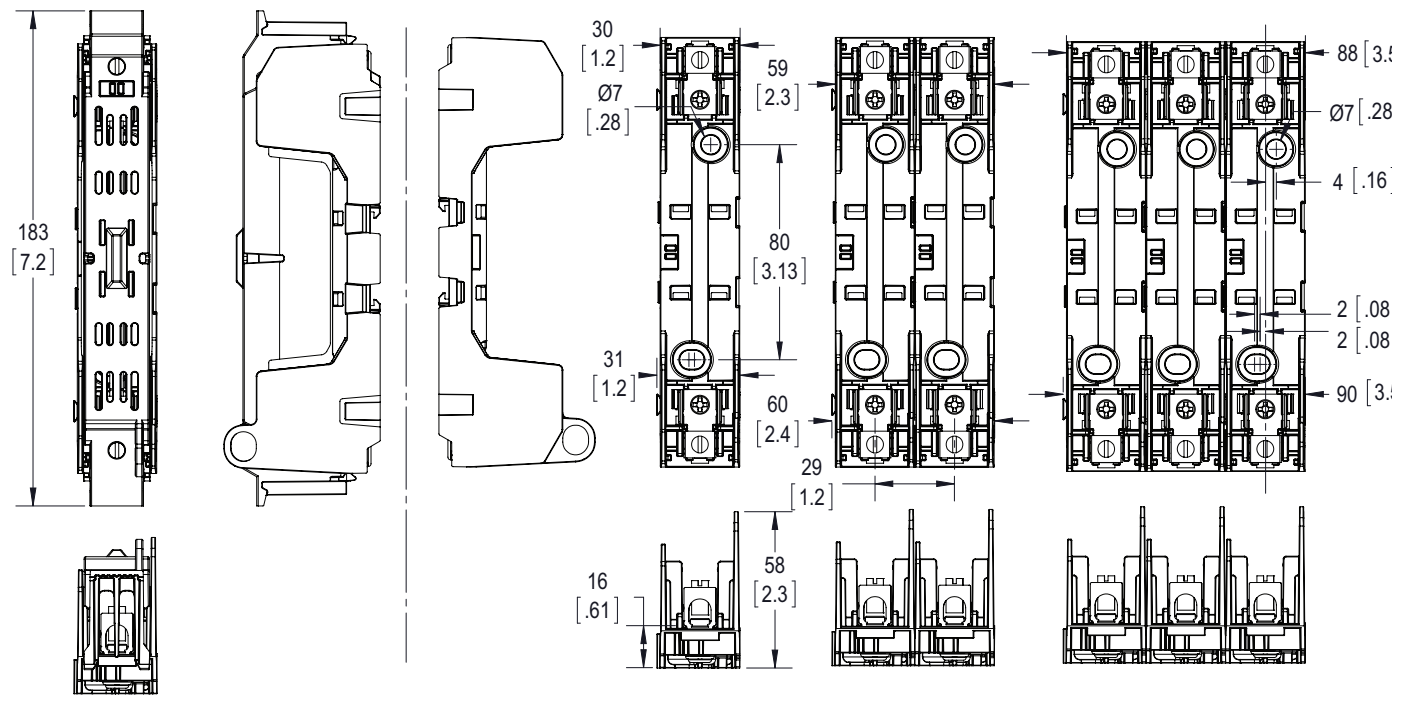
## Class H(K) and R 250V - 30A block dimensions - mm (in)



## Class H(K) and R 250V - 60A block dimensions - mm (in)

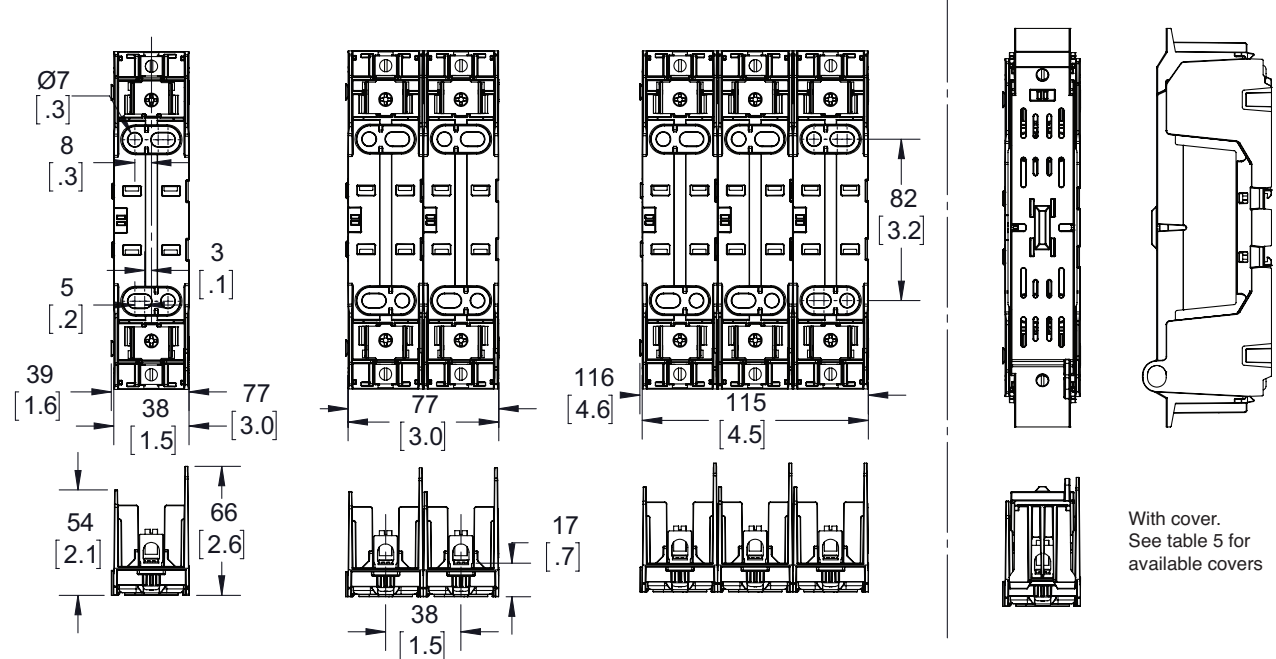


Class H(K) and R 600V - 30A block dimensions - mm (in)



With cover.  
See table 5 for available covers

Class H(K) and R 600V - 60A block dimensions - mm (in)



With cover.  
See table 5 for available covers

Table 6. Class J fuse block catalog numbers

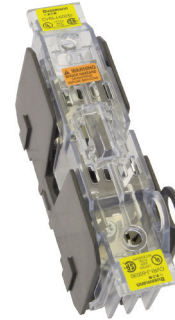
| Terminal type |                        |                | Volts | Fuse amp range | Poles |
|---------------|------------------------|----------------|-------|----------------|-------|
| Box lug       | #10-32 Phil-slot screw | Pressure plate |       |                |       |
| JM60030-1CR   | JM60030-1SR            | JM60030-1PR    | 600   | 1/2 to 30      | 1     |
| JM60030-2CR   | JM60030-2SR            | JM60030-2PR    |       |                | 2     |
| JM60030-3CR   | JM60030-3SR            | JM60030-3PR    |       |                | 3     |
| JM60060-1CR   | —                      | —              |       | 31 to 60       | 1     |
| JM60060-2CR   | —                      | —              |       |                | 2     |
| JM60060-3CR   | —                      | —              |       |                | 3     |

Table 7. Class J block covers

| Fuse block series | Volts | Amp range | Catalog numbers |                |
|-------------------|-------|-----------|-----------------|----------------|
|                   |       |           | Indicating      | Non-indicating |
| JM60030-#XX       | 600   | 1/2 to 30 | CVRI-J-60030    | CVR-J-60030    |
| JM60060-#XX       |       | 31 to 60  | CVRI-J-60060    | CVR-J-60060    |

# = number of poles

XX = terminal type





[illegible]

**9-29**

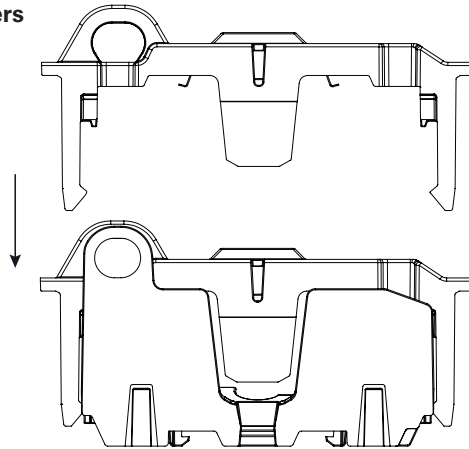
# 9

## Fuse holders and blocks

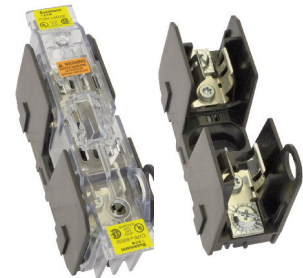
Class H(K), J and R modular ferrule fuse blocks – 250 and 600V

### Installing/removing covers

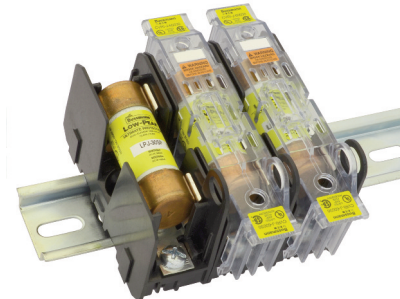
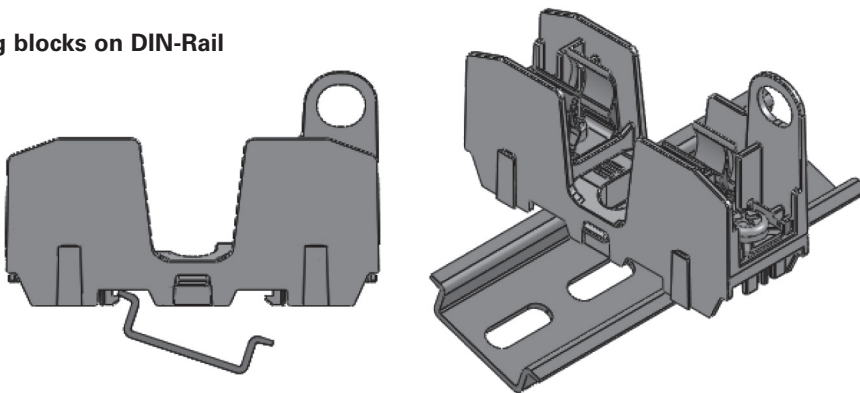
Closing cover: Position cover over block and push straight down until it snaps/clicks into place.



Opening cover: Using both outside handles, pull straight up.



### Installing blocks on DIN-Rail



Place one edge of DIN-Rail in fuse block base, then rotate block down until it clicks into place.

JP

Specifications

**Description:** Pyramid style 3-pole fuse block for use with Class J fuses (Bussmann series LPJ, DFJ, JKS).

**Dimensions:** See dimensions illustrations.

Ratings:

Volts: — 600V

Amps: — 0-30A

SCCR: — 200kA RMS Sym.

**Agency information:** CE, UL Listed, UL 4248, Guide IZLT, File E14853, CSA Certified, C22.2 No. 39, Class 4225-04, File 47235.

**Flammability rating:** UL 94V0.

**Mounting:** Panel or 35mm DIN-Rail mount.

To order DIN-Rail: Part# DRL35MMLO (1 meter).

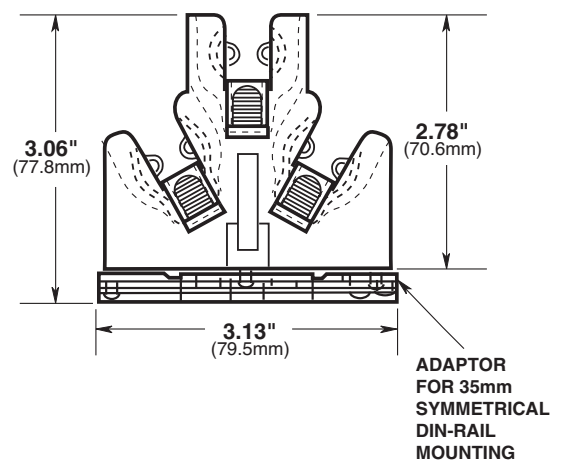
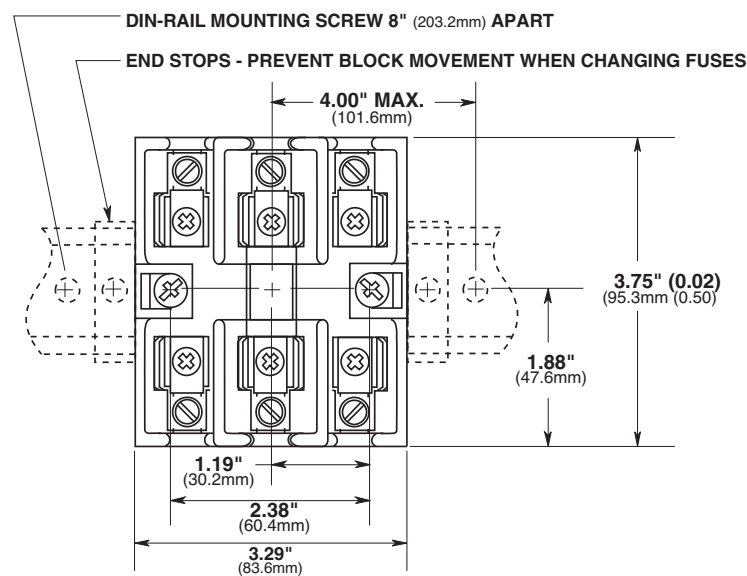
Catalog numbers

| Catalog numbers | Mounting |                        |                            |          |             |
|-----------------|----------|------------------------|----------------------------|----------|-------------|
|                 | Panel    | With DIN-Rail adapter* | Screws with pressure plate | Box      |             |
|                 |          |                        |                            | Aluminum | Copper only |
| JP60030-3PR     | X        |                        | X                          |          |             |
| JP60030-3CR     | X        |                        |                            | X        |             |
| JP60030-3COR    | X        |                        |                            |          | X           |
| JP60030-3PRA    |          | X                      | X                          |          |             |
| JP60030-3CRA    |          | X                      |                            | X        |             |
| JP60030-3CORA   |          | X                      |                            |          | X           |

\*Adapter only for DIN-Rail - Cat No. JPA-3.



Dimensions - in  $\pm 0.015''$  ( $\pm 0.40\text{mm}$ )



## BCM and BMM

### Specifications

**Description:** BCM (Class CC) and BMM (supplemental 13/32 x 1-1/2" / 10x38) modular style fuse blocks with optional covers.

These new Bussmann series fuse blocks contain multiple features to add versatility, reduce labor and enhance safety of any panel design.

### Ratings:

- Volts 600V
- Amps up to 30A
- Withstand 200kA RMS Sym



### Agency information:

#### Class CC BCM Series

- UL Listed E14853 - IZLT
- CSA Certified 47235-6225-01
- CE
- RoHS Compliant

#### 13/32" x 1-1/2" (Midget) BMM Series

- UL Recognized E14853 - IZLT2
- CSA Certified 47235-6225-01
- CE
- RoHS Compliant

### Covers:

- Covers are included in the overall UL Listing/Recognition and CSA Certification
- IP20 finger-safe
- RoHS Compliant

### Poles:

- 1-, 2-, 3-pole units factory assembled
- Single-pole units snap together to create desired number of poles

### Flammability ratings:

### Flammability ratings:

- Blocks — UL 94V0, self-extinguishing
- Covers — UL 94HB, self-extinguishing

### Operating and storage temperature range:

- Blocks -40°C to +120°C
- Non indicating covers -40°C to +120°C
- Indicating covers -20°C to +90°C\*

\* Indication requires minimum 90Vac/dc and closed circuit to illuminate.

### Materials:

- Base — Thermoplastic
- Terminals — Tin-plated bimetallic copper
- Covers — Thermoplastic
- Screws and pressure plates — Zinc-plated steel

### Features and benefits:

- Available in 1-, 2- and 3-pole configurations to meet stocking requirements.
- Blocks are fully modular with a snap-together design that provides tool-less assembly of multiple pole blocks at point-of-use to reduce inventory and save assembly time and labor.
- DIN-Rail and panel mount versatility allows one product to be used for multiple applications, lowering inventory cost.
- Compact footprint consumes minimal panel space.
- Optional see-through cover enhances safety with IP20 finger-safe protection, lockout/tagout capability and open circuit indication.
- Easy circuit identification with available universal marker labels for fuse block covers.
- Tin-plated bimetallic copper fuse clips deliver superior fatigue resistance compared to traditional spring brass.
- Terminal options to meet application needs including 1/4" spade quick connect terminals for faster panel assembly.

Table 1. Catalog numbers

| #10-32<br>Phil-slot screw | Terminal type                |                |                                       |           | Poles | Fuse class                                                                              |
|---------------------------|------------------------------|----------------|---------------------------------------|-----------|-------|-----------------------------------------------------------------------------------------|
|                           | Screw with<br>quick connect* | Pressure plate | Pressure plate with<br>quick connect* | Box lug   |       |                                                                                         |
| BCM603-1S                 | BCM603-1SQ                   | BCM603-1P      | BCM603-1PQ                            | BCM603-1C | 1     | CC                                                                                      |
| BCM603-2S                 | BCM603-2SQ                   | BCM603-2P      | BCM603-2PQ                            | BCM603-2C | 2     | CC                                                                                      |
| BCM603-3S                 | BCM603-3SQ                   | BCM603-3P      | BCM603-3PQ                            | BCM603-3C | 3     | CC                                                                                      |
| —                         | BMM603-1SQ                   | —              | BMM603-1PQ                            | BMM603-1C | 1     | 10x38 (13/32"x1-1/2")                                                                   |
| —                         | BMM603-2SQ                   | —              | BMM603-2PQ                            | BMM603-2C | 2     | 10x38 (13/32"x1-1/2")                                                                   |
| —                         | BMM603-3SQ                   | —              | BMM603-3PQ                            | BMM603-3C | 3     | 10x38 (13/32"x1-1/2")                                                                   |
| —                         | BCCMM603-3SQ                 | —              | BCCMM603-3PQ                          | —         | 3     | 3-Pole control circuit transformer block<br>2-pole CC with 1-pole 10x38 (13/32"x1-1/2") |

\* 1/4" Quick Connect terminal maximum ampacity dependent on female spade connector and wire ratings.

Dimensions - mm (in)

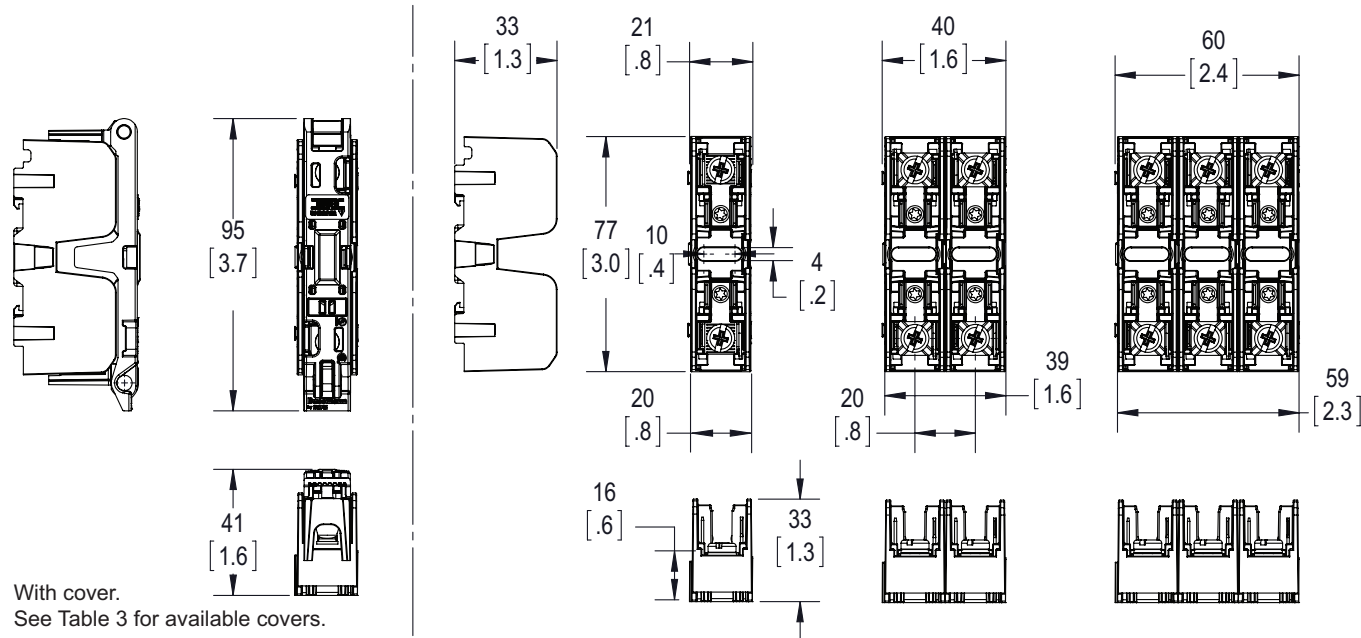


Table 2. Terminal specifications

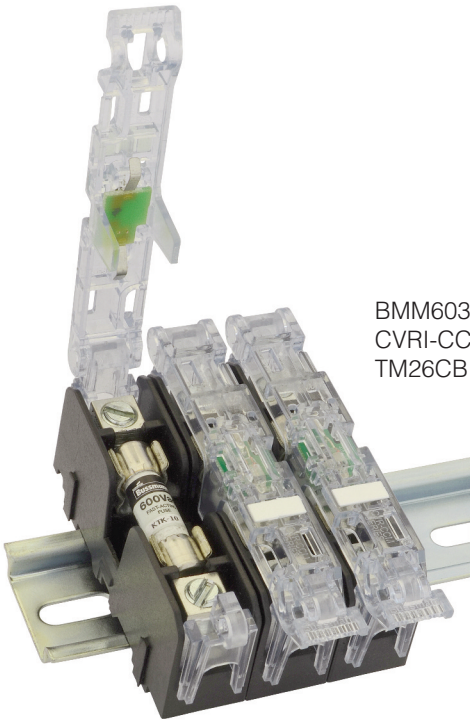
| Terminal type                          | 75/90°C<br>AWG type/<br>range | Torque  |             |
|----------------------------------------|-------------------------------|---------|-------------|
|                                        |                               | AWG     | lb-in (N·m) |
| Box lug (C)                            | CU 2-14<br>AL 2-8             | CU 2-3  | 50 (5.6)    |
|                                        |                               | CU 4-6  | 45 (5.1)    |
|                                        |                               | CU 8-14 | 35 (4.0)    |
|                                        |                               | AL 2-6  | 50 (5.6)    |
|                                        |                               | AL 8    | 40 (4.5)    |
| Screw (S)                              |                               |         |             |
| Screw/quick connect* (SQ)              |                               |         |             |
| Pressure plate (P)                     | CU 10-18                      | 10-18   | 20 (2.3)    |
| Pressure plate/<br>quick connect* (PQ) |                               |         |             |

\* ¼" Quick Connect terminal maximum ampacity dependent on female spade connector and wire ratings.

Table 3. Recommended covers\*

| Terminal type                     | Cover part numbers |                |
|-----------------------------------|--------------------|----------------|
|                                   | Indicating         | Non indicating |
| Box lug (C)                       | CVRI-CCM           | CVR-CCM        |
| Screw (S)                         | CVRI-CCM           | CVR-CCM        |
| Screw/quick connect (SQ)          | CVRI-CCM-QC        | CVR-CCM-QC     |
| Pressure plate (P)                | CVRI-CCM           | CVR-CCM        |
| Pressure plate/quick connect (PQ) | CVRI-CCM-QC        | CVR-CCM-QC     |

\* For use with 4AWG max conductors.



BMM603-3C with  
CVRI-CCM covers and  
TM26CB marker labels



**BPVM****Specifications**

**Description:** BPVM modular style 1000Vdc fuse blocks for use with 10x38mm (13/32" x 1-1/2") photovoltaic fuses up to 30 amps.

These new Bussmann series fuse blocks contain multiple features to add versatility, reduce labor and enhance safety of any panel design.

**Ratings:**

- Volts 1000Vdc
- Amps up to 30A
- Withstand 33kA

**Agency information:****Blocks:**

- UL Listed E348242 - IZMR
- CSA Component Acceptance 47235-6225-01
- CE
- RoHS Compliant

**Covers:**

- Covers are included in the overall UL Listing and CSA Acceptance
- IP20 finger-safe
- RoHS Compliant

**Poles:**

- 1-, 2-pole units factory assembled
- Single-pole units snap together to create desired number of poles

**Flammability ratings:**

- Blocks — UL 94V0, self-extinguishing
- Covers — UL 94HB, self-extinguishing

**Operating and storage temperature range:**

- Blocks -40°C to +120°C
- Non-Indicating covers -40°C to +120°C
- Indicating covers -20°C to +90°C\*

\* Indication requires minimum 90Vac/dc and closed circuit to illuminate.

**Materials:**

- Base — Thermoplastic
- Terminals — Tin-plated bimetallic copper
- Covers — Thermoplastic
- Screws and pressure plates — Zinc-plated steel

**Marker labels:**

- Use Bussmann part number TM26CB

**Features and benefits:**

- Available in 1- and 2-pole configurations to meet stocking requirements.
- Blocks are fully modular with a snap-together design that provides tool-less assembly of multiple pole blocks at point-of-use to reduce inventory and save assembly time and labor.
- DIN-Rail and panel mount versatility allows one product to be used for multiple applications, lowering inventory cost.
- Compact footprint consumes minimal panel space.
- Optional see-through cover enhances safety with IP20 finger-safe protection, lockout/tagout capability and open circuit indication.
- Easy circuit identification with available universal marker labels for fuse block covers.
- Tin-plated bimetallic copper fuse clips deliver superior fatigue resistance compared to traditional spring brass.
- Listed to UL 4248-18 for photovoltaic applications

| Terminal type         | 75/90°C AWG type/range | AWG     | lb-in (N·m) |
|-----------------------|------------------------|---------|-------------|
| Box lug ("CR" Option) | CU 2-14, AL 2-8        | CU 2-3  | 50 (5.6)    |
|                       |                        | CU 4-6  | 45 (5.1)    |
|                       |                        | CU 8-14 | 35 (4.0)    |
|                       |                        | AL 2-6  | 50 (5.6)    |
|                       |                        | AL 8    | 40 (4.5)    |
| Screw (S)             | CU 10-18               | 10-18   | 20 (2.3)    |

Table 2. Catalog numbers

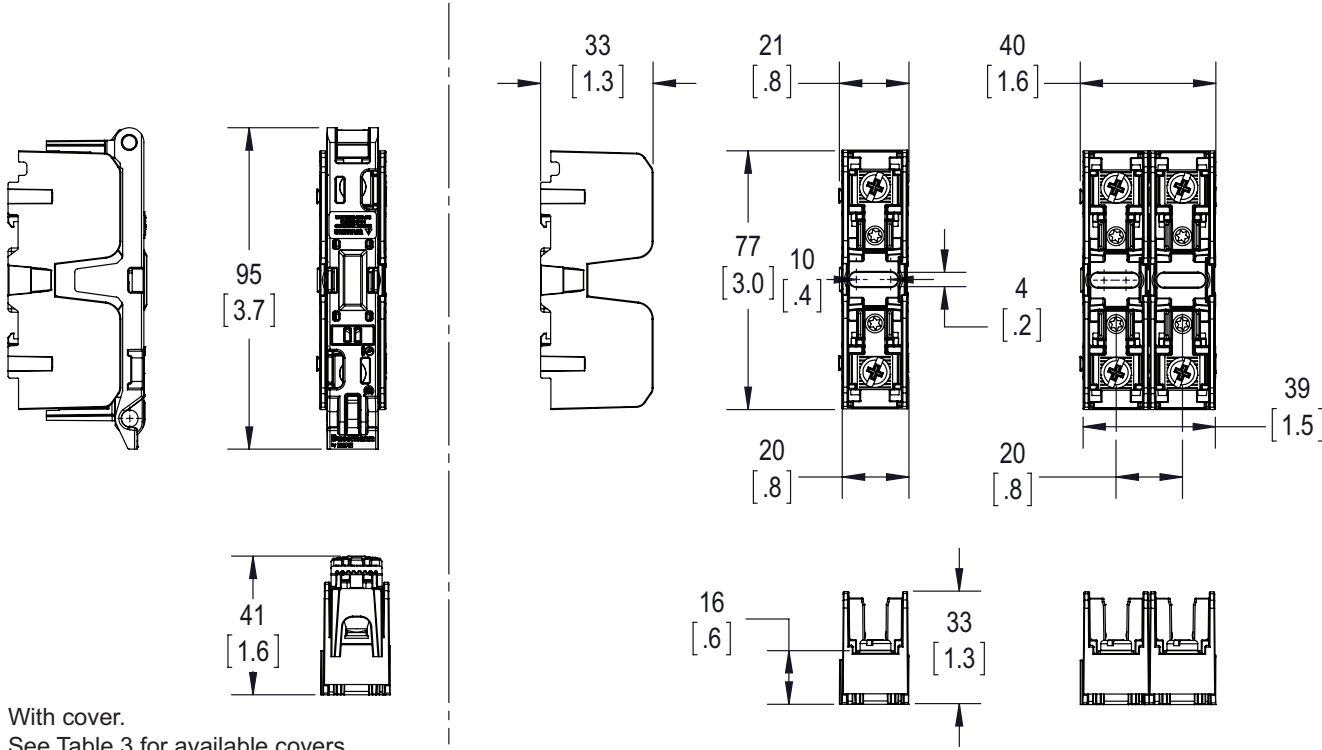
| Terminal type          |         | Poles | Fuse class                         |
|------------------------|---------|-------|------------------------------------|
| #10-32 Phil-slot screw | Box lug |       |                                    |
| BPVM-1S                | BPVM-1C | 1     | 10x38 (13/32# x 1-1/2") gPV and PV |
| BPVM-2S                | BPVM-2C | 2     | 10x38 (13/32# x 1-1/2") gPV and PV |

Table 3. Recommended covers\*

| Cover part numbers |                |
|--------------------|----------------|
| Indicating         | Non indicating |
| CVRI-CCM           | CVR-CCM        |

\* For use with 4AWG max conductors.

Dimensions - mm (in)



**T300****Specifications**

**Description:** T300 (300V) fuse blocks for use with Class T fuses (Bussmann series JJN).

**Dimensions:** See dimensions illustrations.

**Poles:** 1 to 4

**Ratings:**

Volts: — 300Vac/dc

Amps: — ½ - 600A

SCCR: — 200kA RMS Sym.

**Agency information:** CE, UL Listed UL 4248, Guide IZLT, File E14853, CSA Certified, Class 6225-01, File 47235.

**Flammability rating:** UL 94V0.

**Features and benefits**

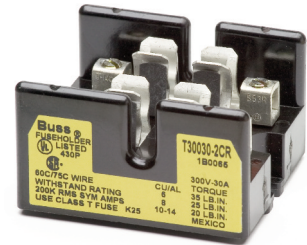
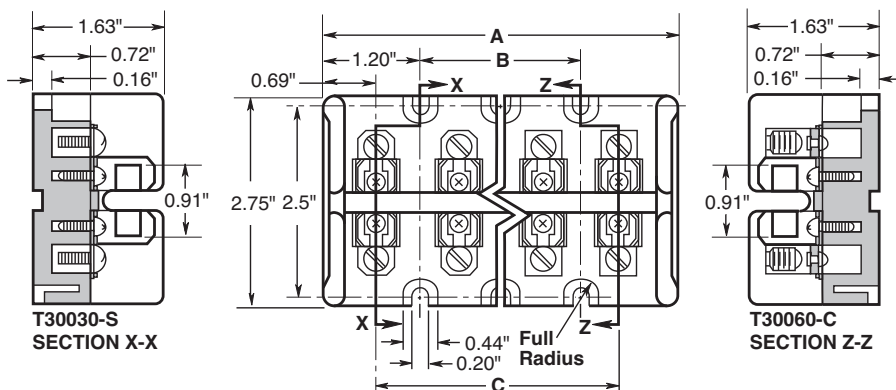
- Provide 1-, 2- and 3-pole housing for 300Vac Class T fuses.
- Short-Circuit Current Rating of 200kA RMS Sym.
- Class T fuse blocks have a small foot print, providing substantial space savings in equipment

**Typical applications**

- 300Vac/dc or less control systems
- 300Vac/dc or less individual control circuits

**Catalog numbers**

| Catalog numbers |            |         |       |          |                                     |
|-----------------|------------|---------|-------|----------|-------------------------------------|
| Screw           | Box Lug    | Amps    | Poles | Fig. no. | Wire range                          |
| T30030-2SR      | T30030-2CR | ½-30    | 2     | 1        | SR #10-18 Cu<br>CR #6-14 Cu/Al      |
| T30030-3SR      | T30030-3CR |         | 3     |          |                                     |
| T30030-4SR      | T30030-4CR |         | 4     |          |                                     |
| T30060-2SR      | T30060-2CR | 31-60   | 2     | 1        | CR #2-14 Cu/Al<br>SR #10-18 Cu only |
| T30060-3SR      | T30060-3CR |         | 3     |          |                                     |
| T30060-4SR      | T30060-4CR |         | 4     |          |                                     |
| —               | T30100-1CR | 61-100  | 1     | 2        | 1/0-8 Cu/Al                         |
| —               | T30100-2CR |         | 2     |          |                                     |
| —               | T30100-3CR |         | 3     |          |                                     |
| —               | T30200-1C  | 101-200 | 1     | 3        | 250kcmil-6 Cu/Al                    |
| —               | T30200-3C  |         | 3     | 4        |                                     |
| —               | T30400-1C  | 201-400 | 1     | 5        | 600kcmil-2/0 Cu/Al                  |
| —               | T30600-1C  | 401-600 | 1     | 6        | (2) 600kcmil-4/0 Cu/Al              |

**T30100-1CR****T30030-2CR****T30600-1C****Dimensions - in Figure 1. ½-60A**

| Catalog number | Dimensions - in |      |      |
|----------------|-----------------|------|------|
|                | A               | B    | C    |
| T30030-2       | 2.41            | —    | 1.03 |
| T30060-2       | 2.41            | —    | 1.03 |
| T30030-3       | 3.44            | 1.03 | 2.06 |
| T30060-3       | 3.44            | 1.03 | 2.06 |
| T30030-4       | 4.47            | 2.06 | 3.09 |
| T30060-4       | 4.47            | 2.06 | 3.09 |

Figure 2. 61 to 100A

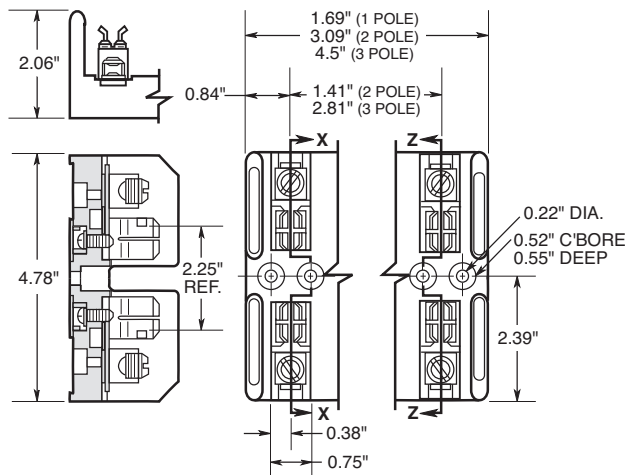


Figure 3. 101 to 200A

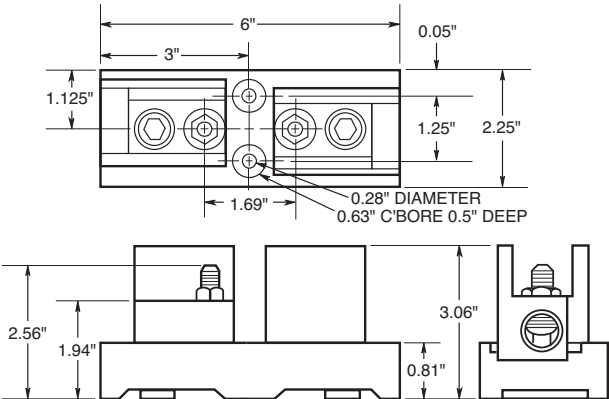


Figure 4. 200A

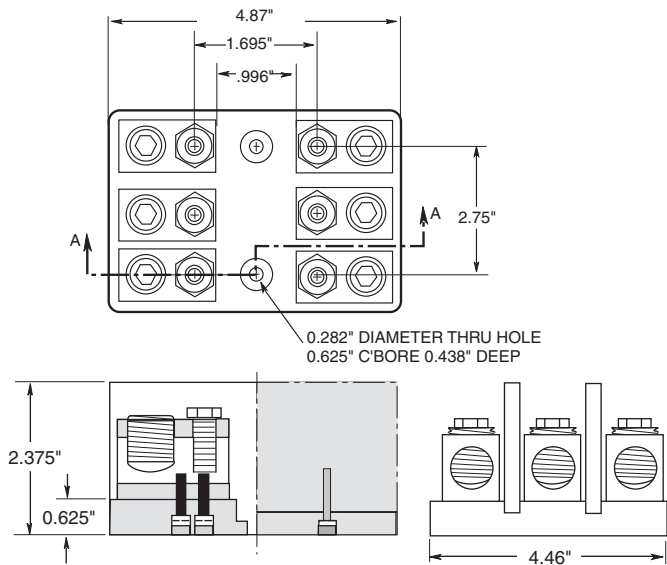


Figure 5. 201 to 400A

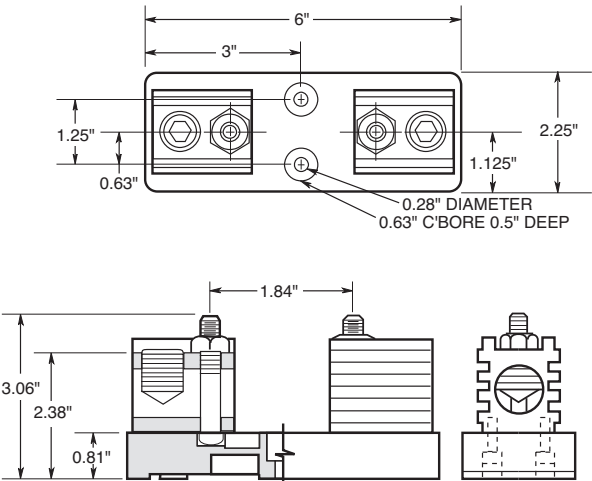
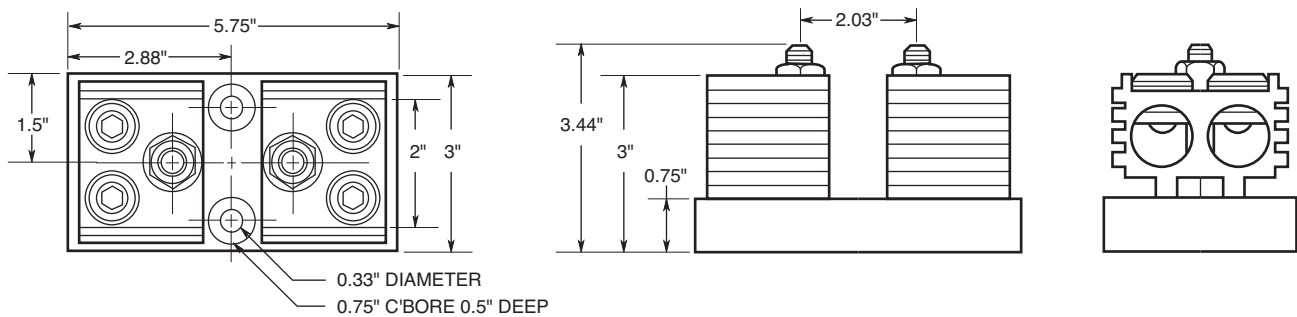


Figure 6. 401 to 600A



**T600****Specifications**

**Description:** T600 (600V) fuse blocks for use with Class T fuses (Bussmann series JJS).

**Dimensions:** See dimensions illustrations.

**Poles:** 1 to 3

**Ratings:**

Volts: — 600Vac/dc

Amps: — ½ - 600A

SCCR: — 200kA RMS Sym.

**Agency information:** CE, UL Listed UL 4248, Guide IZLT, File E14853, CSA Certified, Class 6225-01, File 47235.

**Flammability rating:** UL 94V0.

**Features and benefits**

- Provide 1-, 2- and 3-pole housing for 600Vac Class T fuses.
- Short-Circuit Current Rating of 200kA RMS Sym.
- Class T fuse blocks have a small foot print, providing substantial space savings in equipment

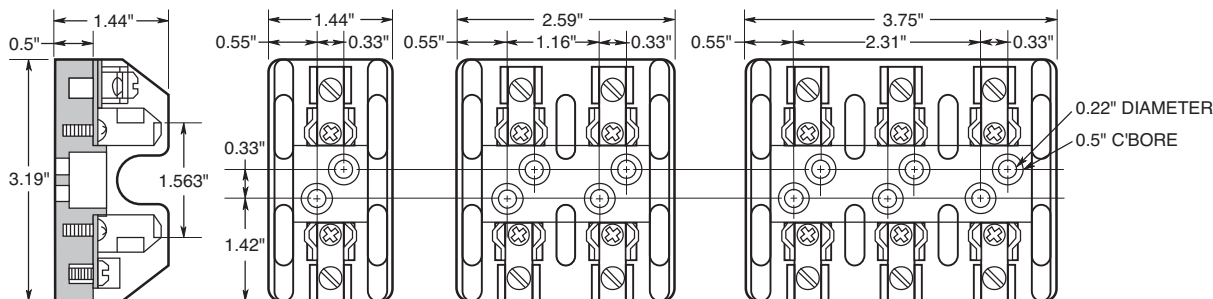
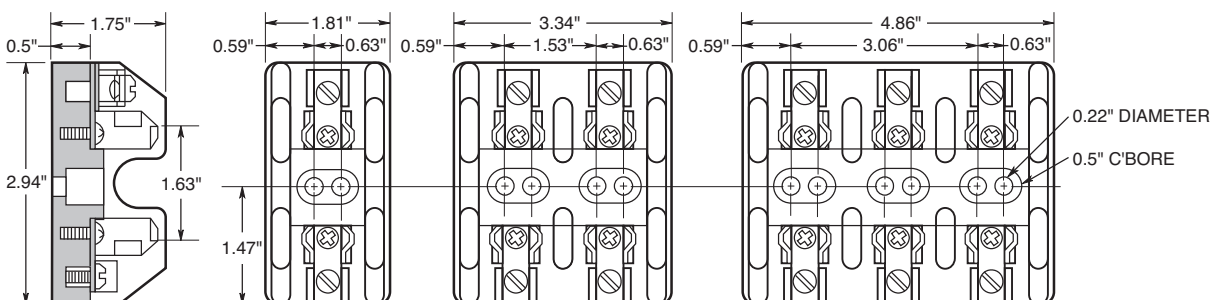
**Typical applications**

- 600Vac/dc or less control systems
- 600Vac/dc or less individual control circuits

**T60600-1C****T30030-2CR****Catalog numbers**

| Screw      | Box lug    | Amps    | Poles | Fig. no. | Wire range                          |
|------------|------------|---------|-------|----------|-------------------------------------|
| T60030-1SR | T60030-1CR | ½-30    | 1     | 1        | SR #10-18 Cu<br>CR #2-14 Cu/Al      |
| T60030-2SR | T60030-2CR |         | 2     |          |                                     |
| T60030-3SR | T60030-3CR |         | 3     |          |                                     |
| T60060-1SR | T60060-1CR | 31-60   | 1     | 2        | CR #2-14 Cu/Al<br>SR #10-18 Cu only |
| T60060-2SR | T60060-2CR |         | 2     |          |                                     |
| T60060-3SR | T60060-3CR |         | 3     |          |                                     |
| —          | T60100-1C  | 61-100  | 1     | 3        | 2/0-14 Cu/Al                        |
| —          | T60100-2C  |         | 2     |          |                                     |
| —          | T60100-3C  |         | 3     |          |                                     |
| —          | T60200-1C  | 101-200 | 1     | 4        | 250kcmil-6 Cu/Al                    |
| —          | 1B0089*    |         | 3     | 5        |                                     |
| —          | T60400-1C  |         | 1     | 6        |                                     |
| —          | T60600-1C  | 401-600 | 1     | 7        | (2) 600kcmil-4/0 Cu/Al              |

\* UL Listed, Guide IZLT, File E14853, CSA Certified Class 6225-01, File 21455M18

**Dimensions - in****Figure 1. ½ to 30A****Figure 2. 31 to 60A**

Data Sheet: 1116



Figure 3. 61 to 100A

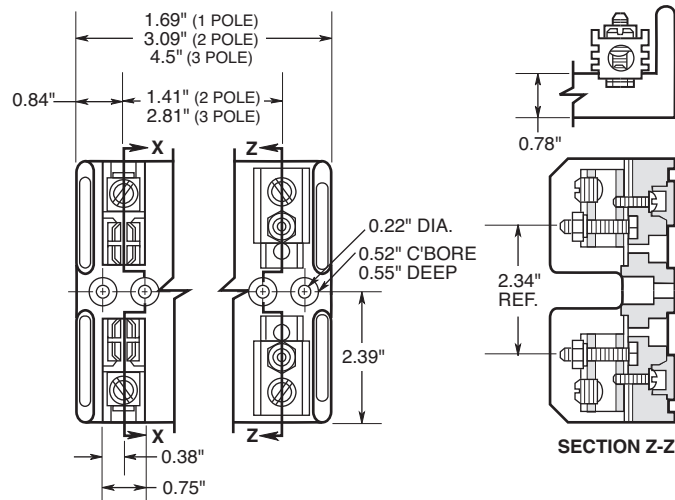


Figure 4. 101 to 200A (T60200-1C)

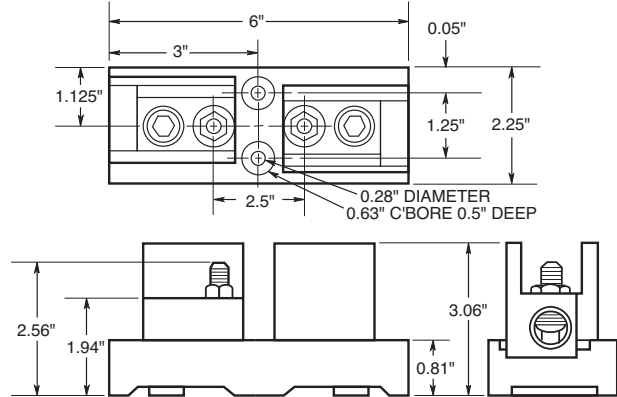


Figure 5. 101 to 200A (1B0089)

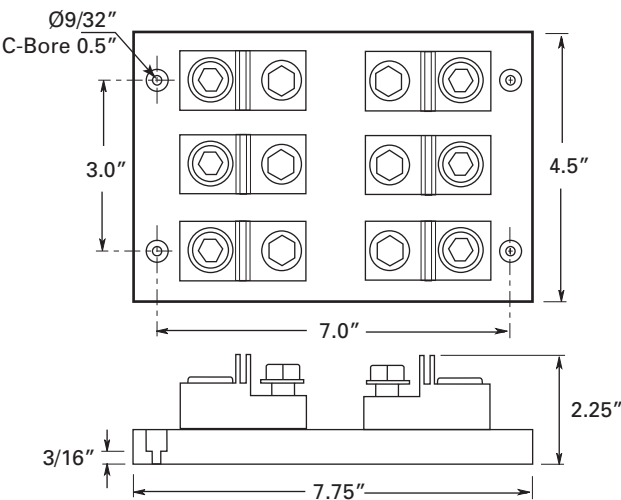


Figure 6. 201 to 400A

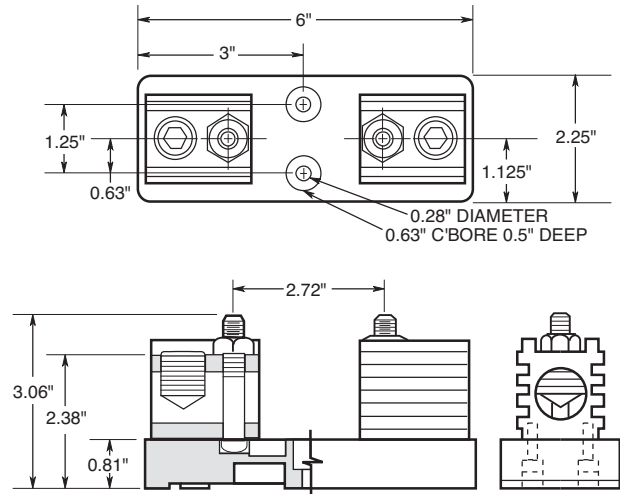
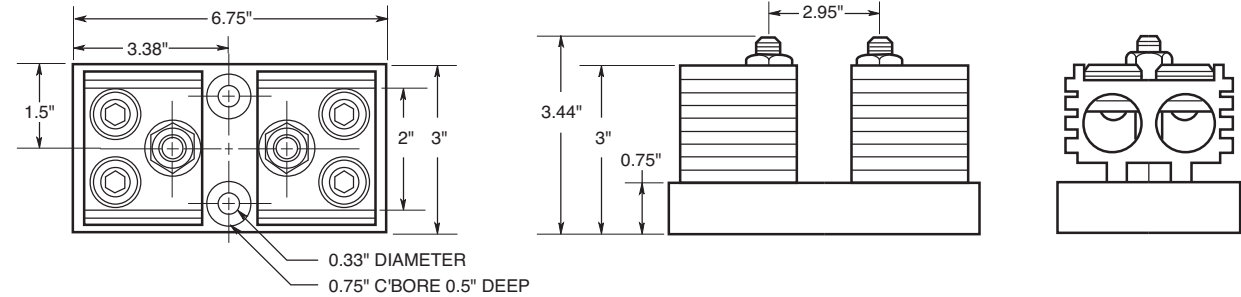


Figure 7. 401 to 600A



**BG and G****Specifications**

**Description:** Class G fuse blocks for use with Class G fuses (Bussmann series SC).

**Dimensions:** See Data Sheet 1106

**Poles:** 1 to 3

**Ratings:**

Volts: — 600Vac/dc (0-20A)

— 480Vac/dc (25-60A)

Amps: — 1-60A (See catalog numbers table)

SCCR: — 100kA RMS Sym.

**Agency information:** CE, UL Listed  
Guide IZLT, File E14853, CSA (Class 6225-01, File 47235).

**DIN-Rail adapters:** See page 16-5 for DRA-1 and DRA-2.

**Catalog numbers**

| Terminal type             |                                  |         |                          |       |       |
|---------------------------|----------------------------------|---------|--------------------------|-------|-------|
| Screw with quick connect* | Pressure plate w/ quick connect* | Box lug | Box lug w/retaining clip | Amps  | Poles |
| BG3011SQ                  | BG3011PQ                         | BG3011B | —                        | 1-15  | 1     |
| BG3012SQ                  | BG3012PQ                         | BG3012B | —                        |       | 2     |
| BG3013SQ                  | BG3013PQ                         | BG3013B | —                        |       | 3     |
| BG3021SQ                  | BG3021PQ                         | BG3021B | —                        | 20    | 1     |
| BG3022SQ                  | BG3022PQ                         | BG3022B | —                        |       | 2     |
| BG3023SQ                  | BG3023PQ                         | BG3023B | —                        |       | 3     |
| BG3031S                   | BG3031P                          | BG3031B | —                        | 25-30 | 1     |
| BG3032S                   | BG3032P                          | BG3032B | —                        |       | 2     |
| BG3033S                   | BG3033P                          | BG3033B | —                        |       | 3     |
| —                         | —                                | —       | G30060-1CR               | 35-60 | 1     |
| —                         | —                                | —       | G30060-2CR               |       | 2     |
| —                         | —                                | —       | G30060-3CR               |       | 3     |

**Recommended cover puller**

- PF1-WH (White)
- PF1-BK (Black)

### BH



#### Specifications

**Description:** For use with Bussmann series high speed fuses.

#### Ratings:

SCCR: — 200kA RMS Sym. or fuse IR, whichever is lower.

**Agency information:** CE, UL Recognized, Guide EZLT2, File No. E14853 up to 700V, CSA Certified, Class 6225-01, File No. 47235 up to 700V.

#### BH series features and benefits

- BH fuse blocks provide a wide range of mounting configurations for Eaton high speed fuses.
- BH fuse blocks have a Short-Circuit Current Rating (SCCR) of any installed fuse up to 200kA RMS Sym.

#### Typical applications

- Solid state control circuits
- VFDs
- UPS systems

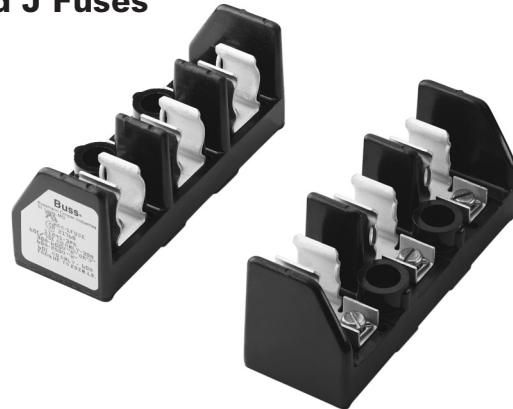
#### Catalog numbers

|         |         |         |         |
|---------|---------|---------|---------|
| BH-0001 | BH-0122 | BH-2001 | BH-3004 |
| BH-0002 | BH-1001 | BH-2002 | BH-3033 |
| BH-0003 | BH-1002 | BH-2003 | BH-3144 |
| BH-0111 | BH-1003 | BH-2031 | BH-3145 |
| BH-0112 | BH-1131 | BH-2032 |         |
| BH-0113 | BH-1132 | BH-2033 |         |
| BH-0121 | BH-1133 | BH-3003 |         |

Refer to the data sheet numbers below for the catalog code description information.

**Data Sheet:** (BH-0) 1200; (BH-1) 1201; (BH-2) 1202; (BH-3) 1203

### Modular type fuse blocks for Class H and J Fuses



#### Specifications

**Description:** 3-pole only, modular type fuse blocks for Class H and J fuses with standard reinforced retaining clips.

#### Ratings:

- Volts: — 250V (0-60A see catalog numbers table)  
 — 600V (35-60A see catalog numbers table)
- Amps: — 0-60A @ 250Vac/dc (see catalog numbers table)  
 — 35-60A@600V (see catalog numbers table)
- SCCR: — Class J 200kA, Class H 10kA

**Agency information:** CE, UL Recognized, Guide IZLT2, File E14853, CSA Certified, Class 6225-01, File 47235.

#### Class H and J features and benefits

- H and J modular fuse blocks provide 3-pole 30 and 60 amp ratings for specific client requirements for separate line and load fuse clip configurations.

#### Typical applications

- Up to 60A, space confined, control circuits

| Catalog numbers |                |            |       |      |          |
|-----------------|----------------|------------|-------|------|----------|
| Screw           | Pressure plate | Fuse class | Volts | Amps | Fig. no. |
| 11241-3SR*      | 11241-3PR*     | H          | 250   | 60   | 1        |
| 11242-3SR       | 11242-3PR      |            |       |      | 2        |
| 11241-3SR       | 11241-3PR      |            | 600   | 30   | 1        |
| 11242-3SR**     | 11242-3PR**    |            |       |      | 2        |
| 11239-3SR       | 11239-3PR      |            |       | 60   | 1        |
| 11240-3SR**     | 11240-3PR**    |            |       |      | 2        |
| 11241-3SR       | 11241-3PR      | J          | 30    | 1    |          |
| 11239-3SR*      | 11239-3PR*     |            |       | 60   | 1        |

Note: Order two blocks per fuse (matched or mixed.)

\*11239 and 11241 have wire terminals and mounting holes located under fuse. (Figure 1)

\*\*11240 and 11242 have wire terminals and mounting holes located at end of fuse. (Figure 2)

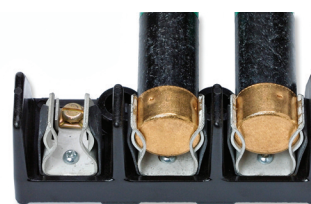


Figure 1



Figure 2

## SOU, SRU, SSN, SSU, SOW, SRW, SSW, SOX, SRX, SSX, SOY, SRY, SSY, SSY-RL, SSY-L, STY, SCY and SOY-B

### Specifications

**Description:** Bussmann series box covers for standard electrical boxes that provide fused outlet, fused switch or circuit fuse protection.

### Ratings:

Volts: — 125V (see catalog numbers table)

Amps: — 0-15A (see catalog numbers table)

**Agency information:** CE, see catalog numbers table.

### Features/Benefits

- Bussmann series box cover units provide a low-cost method of controlling and protecting small motors when used with Bussmann series Type T, Fusetron™, dual-element fuses.
- Provide low-cost supplementary protection and disconnection of 125V or less, single phase circuits.

### Typical applications

- Fractional horsepower, 125 volt single-phase motor circuits
- General 125 volt supplemental circuits



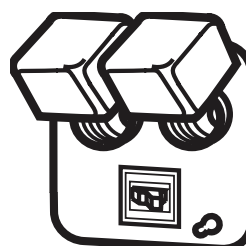
SOU



SRU



SSU



STY



SSN

### Catalog numbers

| Catalog numbers  | Type box    | Fuse holder <sup>3</sup> |        | Receptacle outlet to load |      | Switch control <sup>1</sup> | Switch light <sup>2</sup> | Motor size (max) | General data                                            | Agency <sup>4</sup> listing/certification |
|------------------|-------------|--------------------------|--------|---------------------------|------|-----------------------------|---------------------------|------------------|---------------------------------------------------------|-------------------------------------------|
|                  |             | Single                   | Double | 125V                      | 250V |                             |                           |                  |                                                         |                                           |
| SOU              | 2½" Handy   | X                        |        |                           |      |                             |                           | ¾hp              | 125V, 15A                                               | UL, CSA                                   |
| SRU              |             | X                        |        | X                         |      |                             |                           | ½hp              | 125V, 15A                                               | UL                                        |
| SSU              |             | X                        |        |                           |      | X                           |                           | ½hp              | 125Vac, (do not use on dc), 15A                         | UL, CSA                                   |
| SOW              |             | X                        |        |                           |      |                             |                           | ¾hp              | 125V, 15A                                               | UL, CSA                                   |
| SRW              | 2½" Switch  | X                        |        | X                         |      |                             |                           | ½hp              | 125V, 15A                                               | UL                                        |
| SSW              |             | X                        |        |                           |      | X                           |                           | ½HP              | 125Vac, (do not use on dc), 15A                         | UL, CSA                                   |
| SOX              |             | X                        |        |                           |      |                             |                           | ¾hp              | 125V, 15A                                               | UL, CSA                                   |
| SRX              | 4" Octagon  | X                        |        | X                         |      |                             |                           | ½hp              | 125V, 15A                                               | UL                                        |
| SSX              |             | X                        |        |                           |      | X                           |                           | ½hp              | 125Vac, (do not use on dc), 15A                         | UL, CSA                                   |
| SOY              |             | X                        |        |                           |      |                             |                           | ¾hp              | 125V, 15A                                               | UL, CSA                                   |
| SRY              | 4" Square   | X                        |        | X                         |      |                             |                           | ½hp              | 125V, 15A                                               | UL                                        |
| SSY              |             | X                        |        |                           |      | X                           |                           | ½hp              | 125Vac, (do not use on dc), 15A                         | UL, CSA                                   |
| SSY-RL           |             | X                        |        | X                         |      | X                           | X                         | ½hp              | 125Vac, (do not use on dc), 15A                         | —                                         |
| STY <sup>3</sup> |             |                          | X      |                           |      | X                           |                           | ½hp              | 125Vac, (do not use on dc), 15A                         | UL                                        |
| SCY              |             |                          | X      |                           |      | X(2)                        |                           | ½hp (2)          | 125Vac, (do not use on dc), can protect two motors, 15A | UL                                        |
| SOY-B            | Single gang |                          | X      |                           |      |                             |                           | ¾hp              | 125V, protects two motors, 15A                          | UL                                        |
| SSN              |             | X                        |        | X                         |      | X                           |                           | ½hp              | Weatherproof model, 15A                                 | UL                                        |

1 Switch turns power to fused load OFF or ON.

2 Switch light indicates power to load (dark when switch OFF or fuse open).

3 Double pole switch opens both sides of circuit. Can be used for two separate motors with common switch or a single motor (¾Hp, 250Vac max.).

4 UL Guide JAMZ, File IE6491; CSA Class 6225-01, File 47235.

HFB and HFB-10



Specifications

**Description:** Water-resistant in-line fuse holder for 1/4" x 1 1/4" fuses.

**Dimensions:** See Dimensions illustration.

**Construction:** Thermoplastic rubber body with tin-plated, copper contacts.

Ratings:

Volts: — 32V  
Amps: — 30A max

Catalog numbers

| Catalog numbers                                                                                | Description                       |
|------------------------------------------------------------------------------------------------|-----------------------------------|
| BP/HFB-RP*                                                                                     | Standard pack (10-in)             |
| BK/HFB                                                                                         | Bulk pack (100-in)                |
| BK/1A2294                                                                                      | HFB replacement contact clip      |
| 1A2294-01                                                                                      | HFB-10** replacement contact clip |
| *HFB accepts #12 to #18 wire leads (not provided). See Data Sheet for recommended crimp tools. |                                   |
| **HFB-10 accepts #10 wire leads (not provided). See Data Sheet for recommended crimp tools.    |                                   |

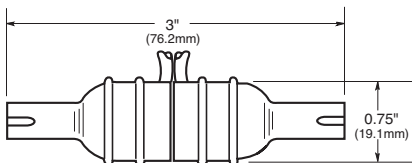
Features/benefits

- Simple assembly with one-piece thermoplastic (important information molded into body)
- High visibility yellow color for easy identification in dark or hard-to-access locations
- Ideal for shock and vibration environments; withstands many organic solvents; temperature range - 40/+150°C

Typical applications

- Supplemental, low voltage, low amperage control circuits

Dimensions - in (mm)



Data Sheet: 2102

HHB



Specifications

**Description:** Universal in-line fuse holder for 1/4" x 7/8", 1" and 1 1/4" fuses.

**Dimensions:** See dimensions illustration.

**Construction:** Nylon body with tin-plated, copper contacts.

Ratings:

Volts: — 32V  
Amps: — 30A max

**Flammability rating:** UL 94V2.

**Pull force:** 5lbs minimum to separate fuse holder housing with fuse installed.

Features and benefits

- HHB Universal in-line fuse holder for 1/4" x 7/8", 1" and 1 1/4" fuses.

Typical applications

- Supplemental, low voltage, low amperage control circuits

Catalog numbers

| Holder — without leads* - RoHS compliant                                                                          |                       |               |
|-------------------------------------------------------------------------------------------------------------------|-----------------------|---------------|
| Catalog numbers                                                                                                   | Description           |               |
| HHB-R                                                                                                             | Standard pack (10-in) |               |
| BK/HHB-R                                                                                                          | Bulk pack (100-in)    |               |
| *Accepts #12 to #16 wire leads (not provided with basic fuse holder). See Data Sheet for recommended crimp tools. |                       |               |
| Holder — with pre-attached #14 Insulated lead wires - Not RoHS compliant unless noted                             |                       |               |
| Catalog numbers                                                                                                   | 19" length            | 8" length     |
| BK/HHB-Y419                                                                                                       |                       | BK/HHB-Y408   |
| BK/HHB-R419                                                                                                       |                       | BK/HHB-R408** |
| BK/HHB-B419                                                                                                       |                       | BK/HHB-B408   |
|                                                                                                                   |                       | Wire color    |
|                                                                                                                   |                       | Yellow        |
|                                                                                                                   |                       | Red           |
|                                                                                                                   |                       | Black         |
| **RoHS compliant.                                                                                                 |                       |               |

Dimensions - in (mm)

| Fuse length       | Fuse holder length "L" |
|-------------------|------------------------|
| 7/8" (AGW)        | 2.100 max              |
| 1" (AGX)          | 2.250 max              |
| 1 1/4" (AGC, MDL) | 2.420 max              |

Data Sheet: 2103

HRK



Specifications

**Description:** Universal in-line fuse holder for 1/4" x 7/8" to 1 1/4" fuses.

**Dimensions:** See dimensions illustration.

**Construction:** 8" (203mm) #14 lead wires.

Ratings:

Volts: — 32V  
Amps: — 15A max

Features and benefits

- HRK Universal in-line fuse holder for 1/4" x 7/8", 1" and 1 1/4" fuses with #14 lead wires.
- RoHS compliant

Typical applications

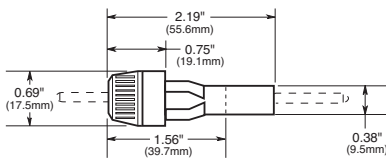
- Supplemental, low voltage, low amperage control circuits

Catalog number

| Catalog number | Amp rating | Volts | Fuse description                          |
|----------------|------------|-------|-------------------------------------------|
| HRK-R*         | 15         | 32    | 1/4" diameter fuses of different lengths. |

\*Three springs furnished with fuse holder to accommodate different length 1/4" fuses.

Dimensions - in (mm)



Data Sheet: 2111



**HR and HM****Specifications**

**Description:** In-line fuse holders for SFE and ¼" dia. x various length fuses.

**Dimensions:** See dimensions illustration.

**Ratings:**

Volts: — 32V

Amps: — 20A

**Features and benefits**

- HR and HM Universal in-line fuse holder for SFE and various length ¼" diameter fuses with #14 lead wires.

**Typical applications**

- Supplemental, low voltage, low amperage control circuits

**Catalog numbers**

| Catalog numbers | Includes fuse | Wire length and size |
|-----------------|---------------|----------------------|
| HRJ*            | SFE-20        | 19" of #14           |
| HRI             | SFE-14        |                      |
| HRH             | SFE-9         |                      |
| HRE             | SFE-7½        |                      |
| HRG             | SFE-6         |                      |
| HRF             | SFE-4         |                      |
| HMJ**           | SFE-20        | 8" of #14            |
| HMI             | SFE-14        |                      |
| HMH             | SFE-9         |                      |
| HME             | SFE-7½        |                      |
| HMG             | SFE-6         |                      |
| HMF             | SFE-4         |                      |

\* Also available as in-line fuse holder only with lead wire contacts, HRJ-LESS-fuse.

\*\* Also available as in-line fuse holder only with lead wire contacts, HMJ-LESS-fuse.

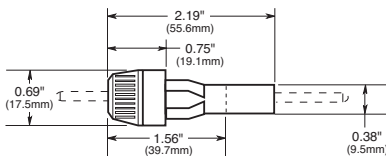
HHJ-A For ¼" x 1¼" fuse, no wire or fuse included, accepts #18 - #22 wire.

HHJ-B For ¼" x 1¼" fuse, no wire or fuse included, accepts #12 - #16 wire.

HHI-B For ¼" x 1¼" fuse, no wire or fuse included, accepts #12 - #16 wire.

**Replacement contacts**

| Catalog number | Symbol |
|----------------|--------|
| 9838           | HHJ-A  |
| 9841           | HHJ-B  |

**Dimensions - in (mm)**

Data Sheet: 2122

**HFA****Specifications**

**Description:** In-line water-resistant fuse holders for ¼" x 1¼" fuses.

**Dimensions:** See dimensions illustration.

**Ratings:**

Volts: — 250V

Amps: — 20A

Refer to data sheet for recommend crimp tools

**Catalog numbers**

| Catalog numbers | Terminals        |
|-----------------|------------------|
| HFA             | Crimp #12 - #16  |
| HFA-HH*         | ¼" quick connect |

\*No UL recognition.

Data Sheet: 2115

**HHT****Specifications**

**Description:** In-line fuse holders for 5 x 15mm or 5 x 20mm fuses.

**Dimensions:** See dimensions illustration.

**Construction:** Black thermoplastic body with brass contacts, wire: 16 AWG, red.

**Ratings:**

Volts: — 32V

Amps: — 5A (5 x 15mm)

— 10A (5 x 20mm)

**Catalog numbers**

| Catalog number | Fuse size             |
|----------------|-----------------------|
| HHT            | 5 x 15mm and 5 x 20mm |

Data Sheet: 2138

**HEG****Specifications**

**Description:** Single-pole, non-breakaway, in-line fuse holders for Type SC fuses, 480V (or less).

**Ratings:**

Volts: — 600V

Amps: — 0-15A

**Fuse size:**  $\frac{13}{32}$ " x 1.31"

**Catalog number**

HEG-AA

**Optional boots:**

2A0660 Single conductor  
2A0661 Two conductor

**Data Sheet: 2124**

**HEC****Specifications**

**Description:** Single-pole, non-breakaway, in-line fuse holders for type SC-25, & SC-30 fuses, size  $\frac{13}{32}$ " x 1  $\frac{5}{8}$ ".

**Ratings:**

Volts: — 480V

Amps: — 25-30A

**Catalog numbers**

HEC-AA, HEC-RW-RLB-R

**Optional boots:**

2A0660 Single conductor  
2A0661 Two conductor

**Data Sheet: 2124**

**HEJ****Specifications**

**Description:** Single-pole, non-breakaway, in-line fuse holders for type SC and type HVW fuses, size  $\frac{13}{32}$ " x 2  $\frac{1}{4}$ ".

**Ratings:**

Volts: — 480V

Amps: — 35-60A Type SC

—  $\frac{1}{2}$ -6A type HVW

**Catalog numbers**

HEJ-AA, HEJ-AB, HEJ-AC, HEJ-BB, HEJ-JJ, HEJ-JK, HEJ-LL, HEJ-LLB, HEJ-CC, HEJ-DD, HEJ-WW, HEJ-PP, HEJ-QQ

**Optional boots:**

2A0660 Single conductor  
2A0661 Two conductor

**Data Sheet: 2123**

**HEX****Specifications**

**Description:** Double-pole in-line fuse holders for  $\frac{13}{32}$ " x 1  $\frac{1}{2}$ " fuses (typically fuse types BAF, FNM, FNQ, and KTK  $\frac{1}{0}$  - 30A).

**Ratings:**

Volts: — 600V

Amps: — 0-30A

**Catalog numbers**

HEX-AA, HEX-AB, HEX-AC, HEX-AD, HEX-AE, HEX-AW, HEX-AW-DRLC-A, HEX-AW-DRYC, HEX-AW-RLC-A, HEX-AW-RYC, HEX-AY, HEX-BB, HEX-CC, HEX-JJ, HEX-JK, HEX-JW-DRYC, HEX-KK

**Data Sheet: 2126**

**HEH****Specifications**

**Description:** Single-pole, non-breakaway, in-line fuse holders for 20A Type SC fuses and  $\frac{1}{10}$ -20A BBS.

**Ratings:**

Volts: — 600V

Amps: — 0-20A

**Agency information:**

CSA - 15A.

**Catalog numbers**

HEH-AA, HEH-AD

**Optional boots:**

2A0660 Single conductor  
2A0661 Two conductor

**Data Sheet: 2124**

**HEZ****Specifications**

**Description:** Waterproof (IPX7), single-pole Class CC in-line fuse holders. Holds Bussmann series fuse types: LP-CC, FNQ-R and KTK-R.

**Ratings:**

Volts: — 600V (or less)

Amps: — Up to 30A\*

**Conductors: Lineside and Loadside\*\***

#12 to #8 Crimp terminal  
#12 to #3 Setscrew terminal

\*Amp rating limited by conductor size and fuse sizing when used with insulating boots

\*\*See details in non-breakaway and breakaway specifications

**Data Sheet: 2130**

**HEY****Specifications**

**Description:** Double-pole in-line fuse holders for KTK-R fuses with optional break-away receptacle, polarized, and accepting Class CC branch circuit fuses (Bussmann series KTK-R, FNQ-R and LP-CC; 600V or less, 200kA IR).

**Ratings:**

Volts: — 600V

Amps: — 0-30A

**Catalog numbers**

HEY-AA, HEY-AB, HEY-AC, HEY-AD, HEY-AE, HEY-AL, HEY-AW-DRLC-A, HEY-AW-DRLC-B, HEY-AW-DRYC, HEY-BB, HEY-JJ

**Data Sheet: 2126**

**HET****Specifications**

**Description:** Single-pole in-line holder with a permanent solid neutral identified by white plastic coupling nut.

**Catalog numbers**

HET-AA, HET-AB, HET-AW, HET-AW-RLC-A, HET-AW-RLC-B, HET-AW-RLC-C, HET-AW-RLC-J, HET-AW-RYC, HET-BB, HET-BW-RLC-B, HET-BW-RYC, HET-JJ, HET-JK, HET-JW, HET-JW-RLC-J, HET-JW-RYC, HET-KK

**Data Sheet: 2125**

Catalog Symbol: HEB\*

**Description:**

Submersible, single-pole in-line fuse holders for UL 13/32" x 1-1/2" supplemental fuses. Available in non-breakaway and breakaway versions with an array of terminal options to meet application needs. Breakaway versions come with insulating boots to provide submersibility per UL IP67.

Non-breakaway versions require ordering optional insulating boots for submersibility.

**Ratings:**

Volts: 600V

Amps: up to 30 limited by conductor size

Withstand: 200kA RMS Sym.

**Optional boots for non-breakaway HEB holder:**

| Description      | Part number |
|------------------|-------------|
| Single conductor | 2A0660      |
| Dual conductor   | 2A0661      |

**To order:**

Specify catalog symbol HEB and the loadside terminal code plus the letter "W." Then select a lineside terminal code that is available with the loadside terminal. Example: HEB-BW-RCL-B defines a breakaway holder with a loadside copper crimp terminal for a single #6 or two #10 wires with a lineside copper crimp terminal for a single #6 or two #10 wires.

**Breakaway catalog number system**

**HEB - A W - RYC**

| Catalog symbol | Loadside terminal | Lineside terminal | Agency Information |     | Loadside terminal |                   | Lineside terminal |                   | Non-breakaway equivalent |
|----------------|-------------------|-------------------|--------------------|-----|-------------------|-------------------|-------------------|-------------------|--------------------------|
|                |                   |                   | UL                 | CSA | Terminal type     | Wire range*       | Terminal type     | Wire range*       |                          |
| HEB            | A                 | RLC-A             | X                  | X   | Cu crimp          | #8-16; (2) #12-16 | Cu crimp          | #8-16; (2) #12-16 | HEB-AA                   |
|                |                   | RLC-B             | —                  | —   | Cu crimp          | #8-16; (2) #12-16 | Cu crimp          | #6; (2) #10       | HEB-AB                   |
|                |                   | RLC-C             | —                  | —   | Cu crimp          | #8-16; (2) #12-16 | Cu crimp          | #4 str; (2) #8    | HEB-AC                   |
|                |                   | RLC-J             | X                  | —   | Cu crimp          | #8-16; (2) #12-16 | Cu setscrew       | #3-8              | HEB-AJ                   |
|                |                   | RYC               | X                  | —   | Cu crimp          | #8-16; (2) #12-16 | Cu setscrew       | (2) #2-12         | HEB-AK                   |
|                |                   | RLA               | —                  | —   | Cu crimp          | #8-16; (2) #12-16 | Al setscrew       | #2-12             | HEB-AL                   |
|                |                   | RYA               | —                  | —   | Cu crimp          | #8-16; (2) #12-16 | Al setscrew       | (2) #2-12         | HEB-AY                   |
|                |                   | RLC-A             | —                  | —   | Cu crimp          | #6; (2) #10       | Cu crimp          | #8-16; (2) #12-16 | HEB-BA                   |
|                | B                 | RLC-B             | —                  | —   | Cu crimp          | #6; (2) #10       | Cu crimp          | 6#; (2) #10       | HEB-BB                   |
|                |                   | RYC               | —                  | —   | Cu crimp          | #6; (2) #10       | Cu setscrew       | (2) #2-12         | —                        |
|                |                   | RLC-J             | —                  | —   | Cu setscrew       | #3-8              | Cu setscrew       | #3-8              | HEB-JJ                   |
|                | J                 | RYC               | —                  | —   | Cu setscrew       | #3-8              | Cu setscrew       | (2) #2-12         | HEB-JK                   |
|                |                   | RLC-J             | X                  | —   | Cu setscrew       | #2-12†            | Cu setscrew       | #3-8              | —                        |
|                | K                 | RYC               | X                  | —   | Cu setscrew       | #2-12†            | Cu setscrew       | #2-12†            | —                        |
|                |                   | RLA               | —                  | —   | Al setscrew       | #2-12             | Al setscrew       | #2-12             | HEB-LL                   |
|                | L                 | RLC-J             | —                  | —   | Al setscrew       | #2-12             | Cu setscrew       | #3-8              | —                        |
|                |                   | RYA               | —                  | —   | Al setscrew       | #2-12             | Al setscrew       | #2-12†            | —                        |

\* Solid/stranded conductors unless otherwise noted.

† Not dual wire rated. One wire per opening.

Data Sheet: 2127

**To order:**

Specify catalog symbol HEB and the loadside terminal code. Then select a lineside terminal code that is available with the loadside terminal.

Example: HEB-BB defines a non-breakaway holder with a loadside copper crimp terminal for a single #6 or two #10 wires with a lineside copper crimp terminal for a single #6 or two #10 wires.

**Non-breakaway catalog number system****HEB - A A**

| Catalog symbol | Loadside terminal | Lineside terminal | Agency Information |     | Loadside terminal |                   | Lineside terminal |                    | Breakaway equivalent |
|----------------|-------------------|-------------------|--------------------|-----|-------------------|-------------------|-------------------|--------------------|----------------------|
|                |                   |                   | UL                 | CSA | Terminal type     | Wire range*       | Terminal type     | Wire range*        |                      |
| HEB            | A                 | A                 | X                  | X   | Cu crimp          | #8-16; (2) #12-16 | Cu crimp          | #8-16; (2) #12-16  | HEB-AW-RLC-A         |
|                |                   | B                 | X                  | X   | Cu crimp          | #8-16; (2) #12-16 | Cu crimp          | #6; (2) #10        | HEB-AW-RLC-B         |
|                |                   | C                 | —                  | X   | Cu crimp          | #8-16; (2) #12-16 | Cu crimp          | #4 str; (2) #8     | HEB-AW-RLC-C         |
|                |                   | D                 | —                  | X   | Cu crimp          | #8-16; (2) #12-16 | Cu crimp          | #2 str; (2) #6     | —                    |
|                |                   | J                 | —                  | —   | Cu crimp          | #8-16; (2) #12-16 | Cu setscrew       | #3-8               | HEB-AW-RLC-J         |
|                |                   | K                 | —                  | —   | Cu crimp          | #8-16; (2) #12-16 | Cu setscrew       | #2-12 <sup>†</sup> | HEB-AW-RYC           |
|                |                   | R                 | —                  | —   | Cu crimp          | #8-16; (2) #12-16 | Al crimp          | #1-2               | —                    |
|                |                   | L                 | —                  | —   | Cu crimp          | #8-16; (2) #12-16 | Al setscrew       | #2-12              | HEB-AW-RLA           |
|                |                   | W                 | —                  | —   | Cu crimp          | #8-16; (2) #12-16 | Cu solid          | —                  | —                    |
|                | B                 | Y                 | —                  | —   | Cu crimp          | #8-16; (2) #12-16 | Al setscrew       | #2-12 <sup>†</sup> | HEB-AW-RYA           |
|                |                   | A                 | —                  | X   | Cu crimp          | #6; (2) #10       | Cu crimp          | #8-16; (2) #12-16  | HEB-BW-RLC-A         |
|                |                   | B                 | X                  | X   | Cu crimp          | #6; (2) #10       | Cu crimp          | #6; (2) #10        | HEB-BW-RLC-B         |
|                |                   | C                 | —                  | X   | Cu crimp          | #6; (2) #10       | Cu crimp          | #4 str; (2) #8     | —                    |
|                |                   | D                 | —                  | X   | Cu crimp          | #6; (2) #10       | Cu crimp          | #2 str; (2) #6     | —                    |
|                | C                 | W                 | —                  | —   | Cu crimp          | #6; (2) #10       | Cu solid          | —                  | —                    |
|                |                   | C                 | —                  | X   | Cu crimp          | #4 str; (2) #8    | Cu crimp          | #4 str; (2) #8     | —                    |
|                |                   | D                 | —                  | X   | Cu crimp          | #2 str; (2) #6    | Cu crimp          | #2 str; (2) #6     | —                    |
|                |                   | Z                 | A                  | —   | Cu crimp          | #18-20            | Cu crimp          | #8-16; (2) #12-16  | —                    |
|                |                   | J                 | X                  | —   | Cu setscrew       | #3-8              | Cu setscrew       | #3-8               | HEB-JW-RLC-J         |
|                | J                 | K                 | —                  | —   | Cu setscrew       | #3-8              | Cu setscrew       | #2-12 <sup>†</sup> | HEB-JW-RYC           |
|                |                   | L                 | —                  | —   | Cu setscrew       | #3-8              | Al setscrew       | #2-12              | —                    |
|                |                   | W                 | —                  | —   | Cu setscrew       | #3-8              | Cu solid          | —                  | —                    |
|                |                   | Y                 | —                  | —   | Cu setscrew       | #3-8              | Al setscrew       | #2-12 <sup>†</sup> | —                    |
|                |                   | L                 | L                  | —   | Al setscrew       | #2-12             | Al setscrew       | #2-12              | HEB-LW-RLA           |
|                | N                 | N                 | —                  | —   | Al crimp          | 6 sol; 8 str      | Al crimp          | #6 sol; #8 str     | —                    |
|                |                   | P                 | —                  | X   | Al crimp          | 4 sol; 6 str      | Al crimp          | #4 sol; #6 str     | —                    |
|                |                   | Q                 | —                  | X   | Al crimp          | #2 sol; #3-4 str  | Al crimp          | #2 sol; #3-4 str   | —                    |
|                |                   | R                 | —                  | X   | Al crimp          | #1-2 str          | Al crimp          | #1-2 str           | —                    |
|                |                   | T                 | —                  | X   | Al crimp          | 1/0 str           | Al crimp          | 1/0 str            | —                    |
|                | W                 | W                 | —                  | —   | Cu solid          | —                 | Cu solid          | —                  | —                    |

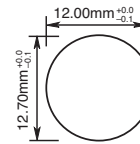
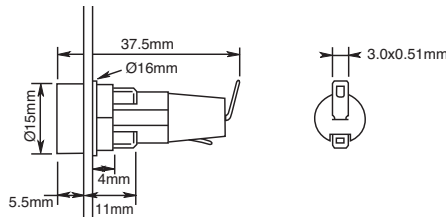
\* Solid/stranded conductors unless otherwise noted.

† Not dual wire rated. One wire per opening.

**HTC-35M****Ratings:**

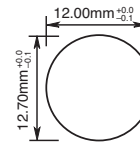
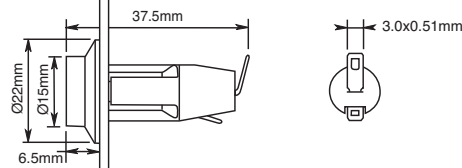
Volts: — 250Vac

Amps: — 10A UL, 10A VDE

**Fuse access:** Threaded cap**Data Sheet: 2110****HTC-40M****Ratings:**

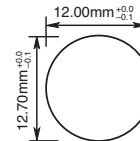
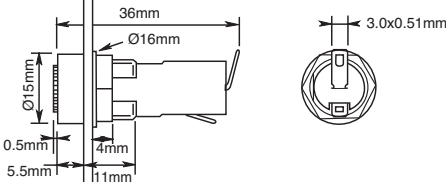
Volts: — 250Vac

Amps: — 10A UL, 10A VDE

**Fuse access:** Screwdriver slot**Data Sheet: 2110****HTC-55M****Ratings:**

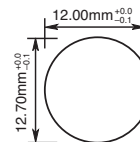
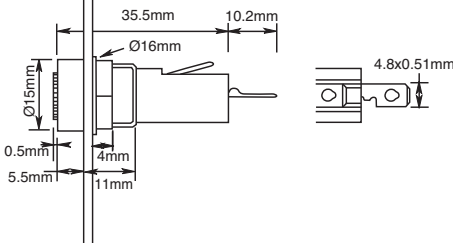
Volts: — 250Vac

Amps: — 10A UL, 10A VDE

**Fuse carrier:** Bayonet type**Data Sheet: 2110****HTC-70M****Ratings:**

Volts: — 250Vac

Amps: — 10A UL, 10A VDE

**Fuse carrier:** Bayonet type**Data Sheet: 2110****Specifications****Terminals:** Tin-plated brass.**Molded materials:** High temperature thermoplastic that meets the flammability ratings of UL 94V0; glow wire test: 960°C per IEC 60695-2-1.**Solderability:** In accordance with IEC 68-2-20.**Agency information:** cURus, VDE**Electrical:** Contact resistance: ≤ 10 megohm; insulation resistance: ≥ 10MΩ; dielectric strength ≥ 2000Vac.**Shock safety:** PC2 (fuse holders).**Packaging:** Standard qty 10 (No Prefix), bulk qty 100 (prefix catalog number with BK/).

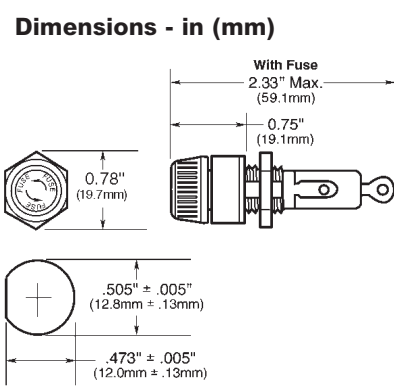


HKP, HKP-L, HKP-W



**Specifications**  
**Description:** Standard fuse holders.  
**Dimensions:** See dimensions illustration.  
**Ratings:**  
Volts: — 250V  
Amps: — 30A  
**Catalog numbers**

| Catalog numbers | Fuse description               |
|-----------------|--------------------------------|
| HKP             | —                              |
| HKP-L           | HKP w/ 2250V stand-off barrier |
| HKP-W           | HKP w/ drip-proof knob         |



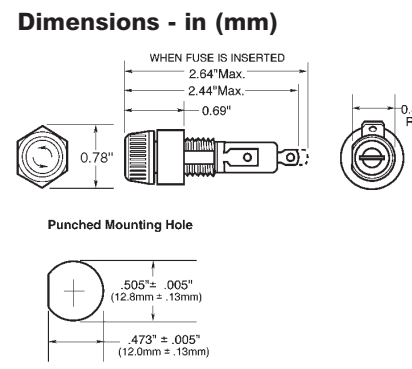
Data Sheet: 2106

HKP-BBHH, HKP-HH and HKP-LW-HH



**Specifications**  
**Description:** Fuse holders with 1/4" quick-connects.  
**Dimensions:** See dimensions illustration.  
**Ratings:**  
Volts: — 250V  
Amps: — 15A  
**Catalog numbers**

| Catalog numbers | Fuse description                                                         |
|-----------------|--------------------------------------------------------------------------|
| HKP-BBHH        | HKP w/ 1/4" quick-connects, nut and washer assembled.                    |
| HKP-HH          | HKP w/ 1/4" quick-connect.                                               |
| HKP-LW-HH       | HKP w/ drip-proof knob, 2250V stand-off barrier and 1/4" quick-connects. |



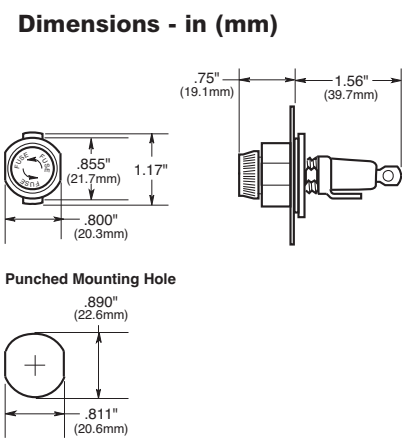
Data Sheet: 2106

HKP-OO



**Specifications**  
**Description:** Snap-lock fuse holders.  
**Dimensions:** See dimensions illustration.  
**Ratings:**  
Volts: — 250V  
Amps: — 30A  
**Catalog numbers**

| Catalog number | Fuse description   |
|----------------|--------------------|
| HKP-OO         | HKP with snap-lock |



Data Sheet: 2106

**Specifications**  
**Terminals:** Bayonet-type knob.  
Vibration resistant.  
For panels up to 5/16" (7.9mm) thick.  
**Agency information:** CE (HKP, HKP-L, HKP-W, HKP-OO), UL Recognized — Guide IZLT2, File E14853, CSA Certified — Class 6225-01, File 47235  
**Replacement Parts:** Cap: 9435-1/2  
Plastic nut: BK/1A4287 (100 pieces minimum)  
Metal nut: BK/1A4806-2 (100 pieces minimum)  
Washer: 9732

Panel mounted fuse holders for 5 x 20mm and 1/4" x 1 1/4" fuses

## HTB

### Specifications

**Description:** Fuse holders with knob-type carriers.

**Dimensions:** See dimensions illustrations.

**Construction:** High temperature, flame retardant thermoplastic; UL Component Recognized; UL 94V0; mounting nut, spacer-black polycarbonate. Terminals: tin-plated brass.

**Electrical data:** Insulation resistance (per IEC #257) — 10,000 ohms @ 500Vdc; contact resistance (per IEC #257) — 0.005 ohms Max @ 1A; standoff voltage (per IEC #257) — 480V/Mil @ 0.125" thickness.

**Agency information:** CE, UL Recognized — Guide IZLT2, File E14853, 1/4" dia fuse @ 20A, 5mm dia fuse @ 16A @ 250V, CSA — 16A @ 250V Class 6225-01 File 47235; VDE Certified: 136128, HTB-XXM, SEMKO Certification: Ref. #0146149/01, HTB-XXM.

**Mounting:** Withstands 15 to 20 Lb-In torque to mounting nut when mounting fuse holder to panel.

**Environmental:** Operating temperature range -55°C to 85°C.

RoHS



### Replacement parts

HTB-2, -3, -4,  
-5 and -8



BK/1A4287-1  
Plastic Nut

HTB-2, -3, -4,  
and -5



BK/1A4806-2  
Metal Nut

HTB-6



BK/1A3322  
Metal Nut

### Dimensional data - in (mm)

| Knob type carrier                                                                                                 | Maximum panel thickness | Terminal options               |           |                    |           | Carrier options                      |                                 |
|-------------------------------------------------------------------------------------------------------------------|-------------------------|--------------------------------|-----------|--------------------|-----------|--------------------------------------|---------------------------------|
|                                                                                                                   |                         | Solder/<br>3/16" quick-connect |           | 1/4" quick-connect |           |                                      |                                 |
|                                                                                                                   |                         | In-line                        | Rt. angle | In-line            | Rt. angle | 1/4" x 1 1/4"<br>("I" equals inches) | 5 x 20mm<br>("M" equals metric) |
|                                                                                                                   |                         |                                |           |                    |           | Knob                                 | Knob                            |
| Common dimensions:<br>Length (knob type) - 1.69"<br>(42.9mm) plus in-line terminal<br>NOTE: Plus in-line terminal |                         |                                |           |                    |           |                                      |                                 |
|                                                                                                                   | 0.30"                   | HTB-22I-R                      | HTB-24I-R | HTB-26I-R          | HTB-28I-R | X                                    |                                 |
|                                                                                                                   | 7.62mm                  | HTB-22M-R                      | HTB-24M-R | HTB-26M-R          | HTB-28M-R |                                      | X                               |
|                                                                                                                   | 0.125"                  | HTB-42I-R                      | HTB-44I-R | HTB-46I-R          | HTB-48I-R | X                                    |                                 |
|                                                                                                                   | 3.18mm                  | HTB-42M-R                      | HTB-44M-R | HTB-46M-R          | HTB-48M-R |                                      | X                               |
|                                                                                                                   | 0.30"                   | HTB-62I-R                      | HTB-64I-R | HTB-66I-R          | HTB-68I-R | X                                    |                                 |
|                                                                                                                   | 7.62mm                  | HTB-62M-R                      | HTB-64M-R | HTB-66M-R          | HTB-68M-R |                                      | X                               |
|                                                                                                                   | 0.125"                  | HTB-82I-R                      | HTB-84I-R | HTB-86I-R          | HTB-88I-R | X                                    |                                 |
|                                                                                                                   | 3.18mm                  | HTB-82M-R                      | HTB-84M-R | HTB-86M-R          | HTB-88M-R |                                      | X                               |

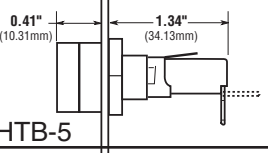
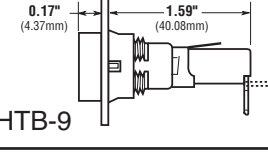
Fuse holders and fuse carriers may be ordered separately.

Panel mounted fuse holders for 5 x 20mm and 1/4" x 1 1/4" fuses

## HTB



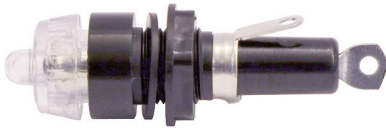
### Dimensional data - in (mm)

| Screwdriver type carrier                                                                            | Maximum panel thickness | Terminal options                                                                                      |                                                                                                       |                                                                                                         |                                                                                                          | Carrier options                                                                     |                                                                                     |
|-----------------------------------------------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                                     |                         | Solder/<br>3/16" quick-connect                                                                        |                                                                                                       | 1/4" quick-connect                                                                                      |                                                                                                          |                                                                                     |                                                                                     |
|                                                                                                     |                         | In-line                                                                                               | Rt. angle                                                                                             | In-line                                                                                                 | Rt. angle                                                                                                | 1/4" x 1 1/4"<br>("I" equals inches)                                                | 5 x 20mm<br>("M" equals metric)                                                     |
|                                                                                                     |                         | <br>0.34"<br>(8.7mm) | <br>0.33"<br>(8.3mm) | <br>0.47"<br>(11.9mm) | <br>0.45"<br>(11.5mm) |  |  |
| <b>Common dimensions:</b><br>(Screwdriver slotted)<br>1.75" (44.5mm)<br>NOTE: plus in-line terminal | 0.30"                   | HTB-32I-R                                                                                             | HTB-34I-R                                                                                             | HTB-36I-R                                                                                               | HTB-38I-R                                                                                                | X                                                                                   |                                                                                     |
|                                                                                                     | 7.62mm                  | HTB-32M-R                                                                                             | HTB-34M-R                                                                                             | HTB-36M-R                                                                                               | HTB-38M-R                                                                                                |                                                                                     | X                                                                                   |
| <br><b>HTB-5</b> | 0.125"                  | HTB-52I-R                                                                                             | HTB-54I-R                                                                                             | HTB-56I-R                                                                                               | HTB-58I-R                                                                                                | X                                                                                   |                                                                                     |
|                                                                                                     | 3.18mm                  | HTB-52M-R                                                                                             | HTB-54M-R                                                                                             | HTB-56M-R                                                                                               | HTB-58M-R                                                                                                |                                                                                     | X                                                                                   |
| <br><b>HTB-9</b> | 0.125"                  | HTB-92I-R                                                                                             | HTB-94I-R                                                                                             | HTB-96I-R                                                                                               | HTB-98I-R                                                                                                | X                                                                                   |                                                                                     |
|                                                                                                     | 3.18mm                  | HTB-92M-R                                                                                             | HTB-94M-R                                                                                             | HTB-96M-R                                                                                               | HTB-98M-R                                                                                                |                                                                                     | X                                                                                   |

### Catalog number build-a-code

|                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                     |                                                                                     |                                                                                                                                                                                                            |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                                                                               |                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                              |  |  |                                                                                                                         |  |  |  | <b>Fuse carrier only</b>                                                              |                                                                                                                                               |                                                                                       |
| <b>Packing blank (Std.)</b> – 10 fuse holders in a carton<br><b>BK</b> – 100 fuse holders in a cardboard shelf package                                                                                                                                                                                                                                                          | <b>HTB-</b>                                                                         | <b>Product symbol</b>                                                               |                                                                                                                                                                                                            | <b>Fuse carrier</b><br><b>I</b> — 1/4" x 1 1/4"<br><b>M</b> — 5 x 20mm              | <b>S</b>                                                                            | <b>P</b>                                                                            |  |                                                          |  |
| <b>Body configuration and mounting</b><br><b>Knob holders</b><br>2 — Low profile (rear panel hex-nut)<br>4 — High profile<br>6  (Front panel hex-nut)<br>8 — Low profile (snap-in)<br><b>Screwdriver slotted holders</b><br>3 — Low profile<br>5 — High profile<br>9 — Low profile (snap-in) |                                                                                     |                                                                                     | <b>Rear terminal configuration</b><br>2 — Solder 3/16" quick-connect (in-line)<br>4 — Solder 3/16" quick-connect (right angle)<br>6 — 1/4" quick-connect (in-line)<br>8 — 1/4" quick-connect (right angle) |                                                                                     | <b>-R</b>                                                                           |                                                                                     | <b>Packaging (blank)</b> – Std.<br><b>BK</b> / – Bulk                                 | <b>Product symbol</b><br><b>FT</b> — knob type (For 20, 40, 60, and 80 only)<br><br><b>ST</b> — Screwdriver Slotted (For 30, 50, and 90 only) | <b>Fuse carrier</b><br><b>I</b> — 1/4" x 1 1/4"<br><b>M</b> — 5 x 20mm                |
|                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                     |                                                                                     |                                                                                                                                                                                                            |                                                                                     | <b>RoHS compliant</b>                                                               |                                                                                     |                                                                                       |                                                                                                                                               |                                                                                       |

\*Profile varies with panel thickness. Holder installs through rear of panel.

**HLD****Specifications**

**Description:** Pin indicating for ¼" x 1¼" fuses.

**Dimensions:** See dimensions illustration.

**Ratings:**

Volts: — 250V

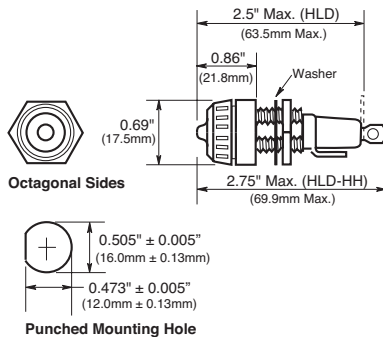
Amps: — 15A

**Agency information:** CE, UL Recognized, File E14853, Guide IZLT2.

**Catalog numbers**

| Catalog numbers* | Terminals                  |
|------------------|----------------------------|
| HLD              | Solder terminals           |
| HLD-HH           | ½" quick-connect terminals |

\*Use w/GBA, GLD Fuses.

**Dimensions - in (mm)****HJL****Specifications**

**Description:** Neon lamp indicating for ¼" x 1" fuses.

**Dimensions:** See dimensions illustration.

**Ratings:**

Volts: — 250V

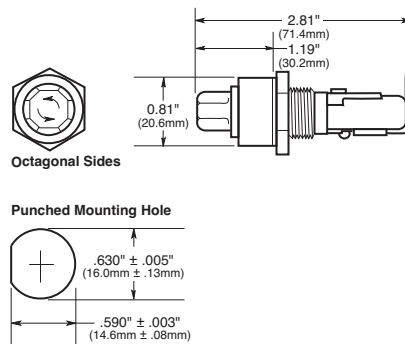
Amps: — 15A

**Agency information:** None

**Catalog number**

| Catalog number* | Volts     | Lamp color | Knob type |
|-----------------|-----------|------------|-----------|
| HJL             | 90 to 250 | Clear      | Oct       |

\*Use with AGX or MKB fuses, for panels up to ¼" thick.

**Dimensions - in (mm)**

Data Sheet: 2121

**HK****Specifications**

**Description:** Neon and incandescent lamp indicating for ¼" x 1¼" fuses

**Dimensions:** See dimensions illustration.

**Ratings:**

Volts: — 250V

Amps: — 15A (HKL, HKL-X)

— 20A (HKR, HKT, HKU, HKX)

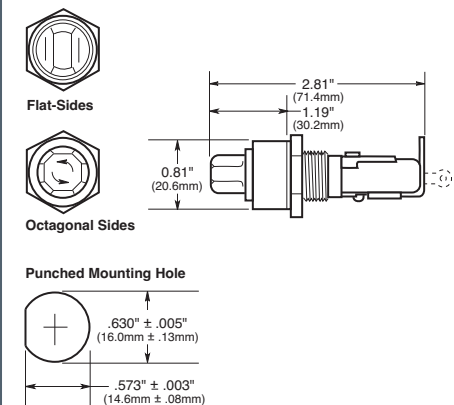
**Agency information:** CE, UL Recognized, (Guide IZLT2, File E14853), CSA Certified (Class 6225-01, File 47235).

**Catalog numbers**

| Catalog numbers | Lamp volts | Knob color/type |
|-----------------|------------|-----------------|
| HKL*            | 90-250     | Clear/Oct       |
| HKL-X*          | 90-250     | Clear/FS        |
| HKR**           | 22-30      | Amber/Oct       |
| HKT**           | 13-22      | Amber/Oct       |
| HKU**           | 4-6        | Red/Oct         |
| HKX**           | 22-33      | Amber/FS        |

\* Neon lamp — UL Recognized and CSA Certified.

\*\* Incandescent lamp.

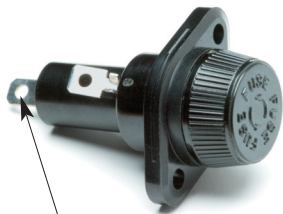


Data Sheet: 2105

Data Sheet: 2120

Panel mounted fuse holders for 13/32" x 1 5/16" to 1 1/2" fuses

## HPF



#10 wire max  
for solder connection

### Specifications

**Description:** Standard fuse holders with **screw-type knob** for 13/32" x 1 5/16" to 1 1/2" fuses.

**Dimensions:** See dimensions illustration.

**Agency information:** CE, UL Recognized, Guide IZLT2, File E14853; CSA Certified, Class 6225-01, File 47235.

**Flammability rating:** UL 94HB.

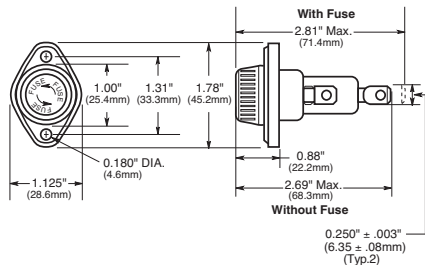
**Terminals:** Combination 1/4" quick-connect/solder terminals.

### Catalog numbers

| Catalog numbers     | Amp ratings     | Volts AC         | Fuse description                     |
|---------------------|-----------------|------------------|--------------------------------------|
| HPF                 | 30 <sup>2</sup> | 600              | 1 1/2" (38.1mm)                      |
| HPF-C               | 30 <sup>3</sup> | 600 <sup>3</sup> | 1 1/2" (38.1mm) clear knob.          |
| HPF-L               | 5               | 600              | BBS, 13/32" x 1 5/16" fuses.         |
| HPF-EE              | 15              | 600              | SC 0-15, 13/32" x 1 5/16" fuses.     |
| HPF-JJ              | 20              | 600              | SC 20, 13/32" x 1 5/16" fuses.       |
| HPF-FF <sup>1</sup> | 30 <sup>2</sup> | 480              | SC 25 & 30, 13/32" x 1 5/16" fuses.  |
| HPF-RR              | 30 <sup>2</sup> | 600              | KTK-R, LP-CC & FNQ-R Class CC fuses. |
| HPF-WT              | 30 <sup>2</sup> | 600              | Splash-proof knob. 13/32" x 1 1/2"   |

<sup>1</sup> No CSA Certification  
<sup>2</sup> 20A max when used with quick-connect terminals.  
<sup>3</sup> HPF-C ratings for CSA-15A, 250V

### Dimensions - in (mm)



Data Sheet: 2114

## HPS



### Specifications

**Description:** Standard fuse holders with **bayonet-type knob** for 13/32" x 1 5/16" to 1 1/2" fuses.

**Dimensions:** See dimensions illustration.

**Agency information:** CE, UL Recognized, Guide IZLT2, File E14853; CSA Certified, Class 6225-01, File 47235.

**Flammability rating:** UL 94HB.

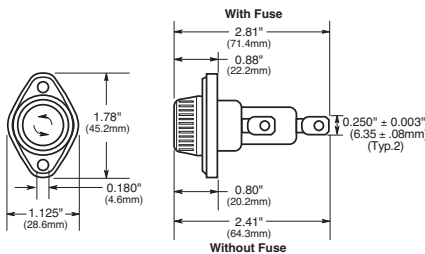
**Terminals:** Combination 1/4" quick-connect/solder terminals.

### Catalog numbers

| Catalog symbol        | Amp ratings       | Volts AC | Fuse description                                   |
|-----------------------|-------------------|----------|----------------------------------------------------|
| HPS                   | 30 <sup>2,3</sup> | 600      | 13/32" x 1 1/2"                                    |
| HPS-L                 | 5                 | 600      | BBS, 13/32" x 1 5/16" fuses.                       |
| HPS-EE*               | 15                | 600      | SC 0-15, 13/32" x 1 5/16" fuses.                   |
| HPS-JJ*               | 20                | 600      | SC 20, 13/32" x 1 5/16" fuses.                     |
| HPS-F-EE <sup>1</sup> | 15                | 600      | Sleeve on body, leaded for 13/32" x 1 5/16" fuses. |
| HPS-FF* <sup>1</sup>  | 30 <sup>2</sup>   | 480      | SC 25 & 30, 13/32" x 1 5/16" fuses.                |
| HPS-RR* <sup>1</sup>  | 30 <sup>2</sup>   | 600      | KTK-R, LP-CC, FNQ-R Class CC fuses.                |

\*-EE, -JJ, -FF and -RR versions are UL Recognized for applications requiring branch circuit protection.  
<sup>1</sup> No CSA Certification  
<sup>2</sup> 20A max when used with quick-connect terminals.  
<sup>3</sup> HPS rated at 250V for CSA

### Dimensions - in (mm)



Data Sheet: 2113

## HPG



## HPD



### Specifications

**Description:** Standard fuse holders with **bayonet-type knob** for 13/32" x 1 1/2" fuses.

**Dimensions:** See dimensions illustrations.

**Agency information:** CE, UL Recognized, (Guide IZLT2, File E14853).

**Flammability rating:** UL 94V0 - fuse holder body UL 94HB - Knob.

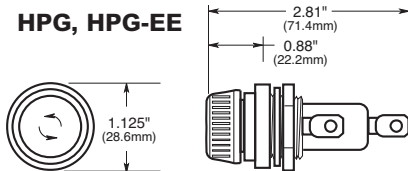
### Catalog numbers

| Catalog numbers | Amp ratings     | Volts AC | Fuse description                 |
|-----------------|-----------------|----------|----------------------------------|
| HPG*            | 30 <sup>1</sup> | 600      | 13/32" x 1 1/2" fuses            |
| HPG-EE*         | 15              | 600      | SC 0-15, 13/32" x 1 5/16" fuses. |
| HPD**           | 30 <sup>1</sup> | 600      | 13/32" x 1 1/2" fuses            |

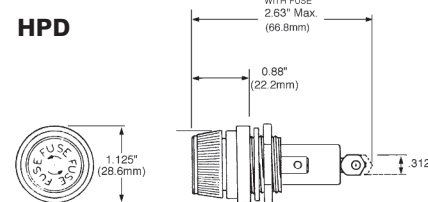
<sup>1</sup> 20A max when used with quick-connect terminals.  
\*HPG and HPG-EE has combination 1/4" quick-connect/solder terminals on both side (load) and rear (line) terminals.  
\*\*HPD has combination 1/4" quick-connect/solder terminal on side (load) terminal only. Rear (line) terminal is 5/16" shorter than HPG. Rear terminal solder only.

### Dimensions - in (mm)

#### HPG, HPG-EE



#### HPD



Data Sheet: 2108



**HPM****Specifications**

**Description:** Standard fuse holder with **screw-type knob** for 13/32" x 1 1/2" fuses.

**Dimensions:** See dimensions illustration.

**Ratings:**

Volts: — 600Vac/dc

Amps: — 30A<sup>1</sup>

<sup>1</sup> 20A max when used with quick-connect terminals.

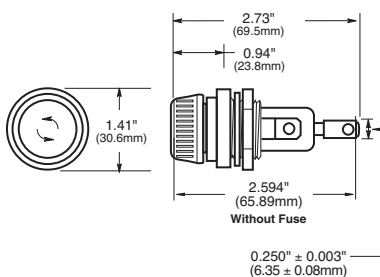
**Agency information:** CE, UL Recognized, Guide IZLT2, File E14853; CSA Certified, Class 6225-01, File 47235.

**Flammability rating:** UL 94HB.

**Catalog numbers**

| Catalog numbers | Description                        |
|-----------------|------------------------------------|
| HPM             | 1/4" quick-connect/solder          |
| HPM-D           | Splash-resistant knob <sup>2</sup> |

<sup>2</sup> HPM-D has 1/4" quick-connect/solder terminal on rear (load) terminal only. The side (line) terminal is 1/4" quick-connect only.

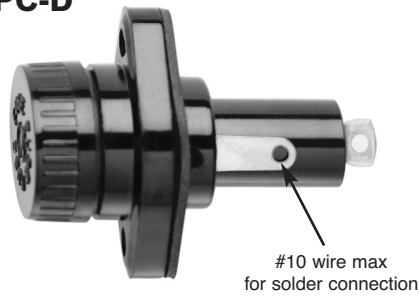
**Dimensions - in (mm)**

**Nut torque:** 30 lb-in.

**Replacement knob:**

Catalog number: BK/9789-Y2  
(50 pieces)

Data Sheet: 2112

**HPC-D****Specifications**

**Description:** Fuse holder with **screw-type knob** for 13/32" x 1 1/2" fuses. Supplied with O-ring and panel gasket.

**Dimensions:** See dimensions illustration.

**Ratings:**

Volts: — 600Vac/dc

Amps: — 30A<sup>1</sup>

<sup>1</sup> 20A max when used with quick-connect terminals.

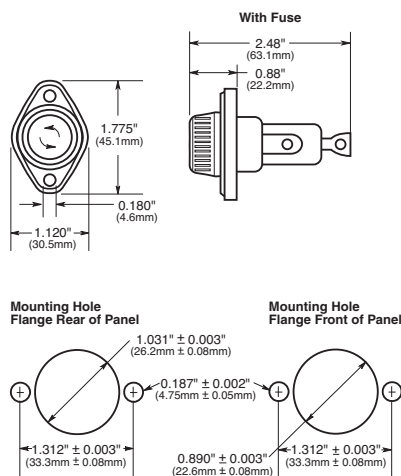
**Agency information:** CE, UL Recognized, Guide IZLT2, File E14853.

**Flammability rating:** UL 94HB.

**Catalog numbers**

| Catalog number | Description                       |
|----------------|-----------------------------------|
| HPC-D          | Mount in panels up to 1/4" thick. |

Replacement knob - BK/9987SA

**Dimensions - in (mm)**

Data Sheet: 2109

**HPS2****Specifications**

**Description:** For fuse size 13/32" x 1 1/2", meeting UL 1598 requirement that both poles be removed simultaneously.

**Dimensions:** See dimensions illustration.

**Ratings:**

Volts: — 600V@30A

Amps: — 0-30A<sup>1</sup>

<sup>1</sup> 20A max when used with quick-connect terminals.

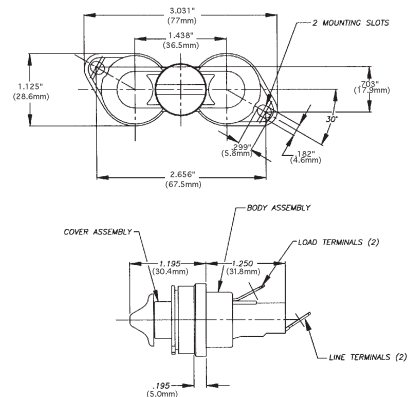
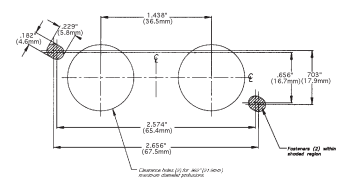
**Agency information:** UL 4248 recognized, (Guide IZLT2, File E14853), CSA certified: (Class 6225-01, File 47235).

**Flammability rating:** UL 94V0.

**Terminals:** 1/4" quick-connect/solder.

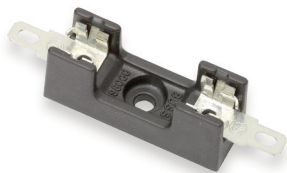
**Catalog numbers**

| Catalog numbers | Description           |
|-----------------|-----------------------|
| HPS2            | Standard 10-in carton |
| BK/HPS2         | Bulk 100-in carton    |

**Dimensions - in (mm)****Panel mount hole dimensions**

Data Sheet: 2140

8000



Specifications

**Description:** Bolt-in and snap-in mounting for 1/4" x 1 1/4" fuses.

**Construction:** Blocks are molded flame retardant thermoplastic. Clips are bright tin-plated, spring-bronze.

Ratings:

Volts: — 300V

Amps: — 25A (See catalog numbers table)

**Agency information:** CE, UL Recognized ; File E14853, Guide IZLT2, CSA Certified Class 6225-01, File 47235.

**Anti-rotation pin:** Single-pole blocks may be ordered without the anti-rotational pin simply by adding an "X" to the number of poles (Example: BK/S-8000-1X).

**Carton quantity:** 10; shelf package: 100.

**Bulk carton:** Single-pole and 2-pole fuse blocks — 1,000; Multiple-pole fuse blocks — 3- to 8-pole: 200; 9- to 12-pole: 50. When ordering bulk quantities, prefix "BK/" to catalog number: (Example: BK/S-8001-1-SNP).

Catalog numbers

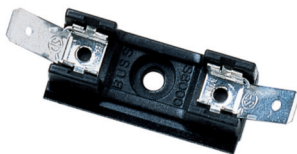
Bolt-in mounting

| Basic catalog numbers | Series | Terminal              | Angle | Agency maximums   | Poles (suffix) |
|-----------------------|--------|-----------------------|-------|-------------------|----------------|
| S-8001-               | 8000   | Solder                | 0°    | UL 30A            | 1 - 12         |
| S-8002-               |        |                       | 40°   | CSA 21A           |                |
| S-8101-               | 8100   | ⅝" Quick connect      | 0°    | UL 20A            |                |
| S-8102-               |        |                       | 40°   | CSA 13A           |                |
| S-8201-               | 8200   | ¼" Quick connect side | 0°    | UL 30A            |                |
| S-8202-               |        |                       | 40°   | CSA 16A           |                |
| S-8203-               |        | Screw                 | —     | UL 30A<br>CSA 25A |                |
| S-8301-               | 8300   |                       |       |                   |                |

Snap-in mounting

| Catalog numbers | Series | Terminal            | Angle | Agency maximums | Poles (suffix)                |
|-----------------|--------|---------------------|-------|-----------------|-------------------------------|
| S-8001-1-SNP    | 8000   | Solder              | 0°    | UL 25A          | Available only in single pole |
| S-8002-1-SNP    |        |                     | 40°   | CSA 21A         |                               |
| S-8101-1-SNP    | 8100   | 3/16" Quick connect | 0°    | UL 20A          |                               |
| S-8102-1-SNP    |        |                     | 40°   | CSA 13A         |                               |
| S-8201-1-SNP    | 8200   | 1/4" Quick connect  | 0°    | UL 20A          |                               |
| S-8203-1-SNP    |        |                     | Side  | CSA 16A         |                               |

Catalog number build-a-code



Catalog Code

BK/ S-8 0 00 -00

Prefix for Bulk Packing  
Series 8000—  
Product Line  
Type Terminal  
"0" - Solder  
"1" - 3/16" Quick Connect  
"2" - 1/4" Quick Connect  
"3" - Screw  
Terminal Angle  
"01" - straight (0.)  
"02" - 40  
"03" - side  
Number of Poles (1-12)  
\*Available only in single pole

Data Sheet: 2101

Single-pole fuse blocks

Specifications

**Description:** Single-pole fuse block for 1/4" x 1 1/4" (6.4 x 31.8mm) size fuses.

**Dimensions:** See dimensions illustrations.

**Construction:** Bakelite base width 1/2" (12.7mm); spring-bronze, bright tin-lead plate clips.

Ratings:

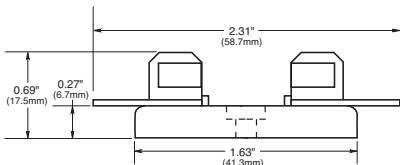
Volts: — 250V

Amps: — 30A



4405 - 0° solder terminals with integral terminal and clip

Dimensions - in (mm)

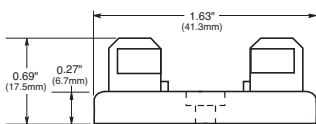


4406 - Side solder terminal



4574 - Spare fuse block

Dimensions - in (mm)

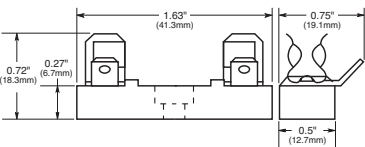


2499 - Side quick-connect

**Agency information:** UL Recognized, Guide IZLT2, File E14853

**Terminals:** 1/4" (6.4mm); 15A, 250V

Dimensions - in (mm)



Note: Mounting screw hole diameter is 0.147" (3.7mm). Counterbore diameter, 0.636" (8.0mm). Max mounting screw no. 6.

## 3828

**Specifications**

**Description:** Fuse block for 1/4" x 1" (6.4 x 25.4mm) fuses with solder terminals.

**Dimensions:** See dimensions illustration.

**Ratings:**

Volts: — 250V

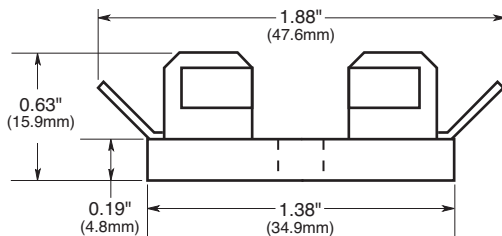
Amps: — 30A

**Mounting:** Mounting screw hole diameter is 0.147" (3.7mm), diameter. Max mounting screw no. 6.

**Catalog numbers**

| Catalog numbers | Poles | *Base Length - in (mm) |
|-----------------|-------|------------------------|
| 3828-1          | 1     | 1/2 (12.7)             |
| 3828-2          | 2     | 1 1/8 (28.6)           |
| 3828-3          | 3     | 1 3/4 (44.5)           |
| 3828-4          | 4     | 2 1/4 (60.3)           |
| 3828-5          | 5     | 3 (76.2)               |
| 3828-6          | 6     | 3 3/4 (92.1)           |
| 3828-7          | 7     | 4 1/4 (108.0)          |
| 3828-8          | 8     | 4 7/8 (123.8)          |
| 3828-10         | 10    | 6 1/4 (155.6)          |
| 3828-12         | 12    | 7 3/4 (187.3)          |

\*Small phenolic base, base width 1 3/8" (34.9mm)

**Dimensions - in (mm)**

## 4520 and 4393

**Specifications**

**Description:** Single-pole fuse block for 1/4" x 1" fuses.

**Dimensions:** See dimensions illustrations.

**Construction:** Bakelite with 1/2" (12.7mm) width base. Spring-bronze, bright tin-lead plated clips.

**Ratings:**

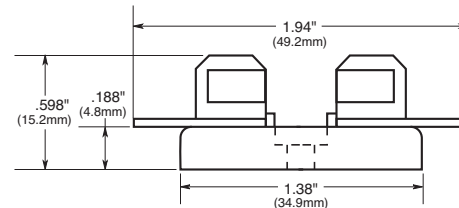
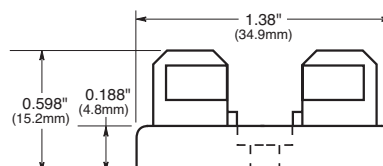
Volts: — 250V

Amps: — 30A

**Mounting:** Mounting screw hole diameter is 0.147" (3.7mm), counterbore 0.636" (8.0mm) diameter. Max mounting screw no. 6.

**Catalog numbers**

| Catalog Numbers | Description                                 |
|-----------------|---------------------------------------------|
| 4520            | Integral clip and straight solder terminals |
| 4393            | Spare fuse block                            |

**No. 4520 - Integral clip and straight solder terminals****Dimensions - in (mm)****No. 4393 - Spare fuse block****Dimensions - in (mm)**

## 3743



### Specifications

**Description:** Add-on fuse blocks for 13/32" X 1 1/2" (10.3 X 38.1mm) fuses. Single pole blocks lock into each other and can be added at any time. Each has a single end barrier.

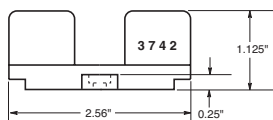
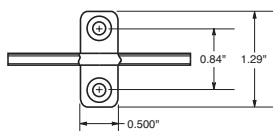
**Dimensions:** See dimensions illustration.

### Ratings:

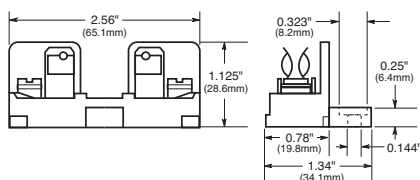
Volts: — 600Vac/dc

Amps: — 30A

**Agency information:** CE, UL  
Recognized Guide IZLT2, File E14853.



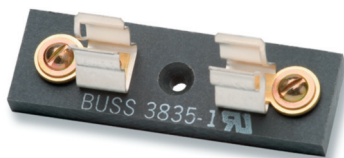
### 3742—End barrier only



### 3723—Block and end barrier marking strip. Length is 9 3/8" (23.8cm).

Note: Mounting screw hole is 0.147" (3.7mm) dia. Counterbore, 0.636" (16.1mm) dia. Max. mounting screw no. 6.

## 3835



### Specifications

**Description:** Multiple pole fuse blocks for 13/32" X 1 1/2" (10.3 X 38.1mm) fuses.

**Dimensions:** See dimensions illustration.

### Ratings:

Volts: — 250Vac/dc

Amps: — 30A

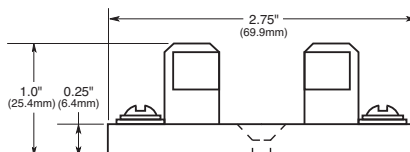
**Agency information:** CE

### Catalog numbers

| Catalog numbers | Poles | Base* width<br>In (mm) |
|-----------------|-------|------------------------|
| 3835-1          | 1     | 2 7/16 (21.4)          |
| 3835-2          | 2     | 1 13/16 (46.0)         |
| 3835-3          | 3     | 2 5/8 (70.6)           |
| 3835-4          | 4     | 3 3/4 (95.2)           |
| 3835-5          | 5     | 4 2/8 (119.9)          |
| 3835-6          | 6     | 5 1/16 (144.5)         |
| 3835-7          | 7     | 6 21/32 (169.0)        |
| 3835-8          | 8     | 7 3/8 (193.7)          |
| 3835-9          | 9     | 8 1/8 (218.8)          |
| 3835-10         | 10    | 9 1/8 (242.9)          |
| 3835-12         | 12    | 11 1/2 (292.1)         |

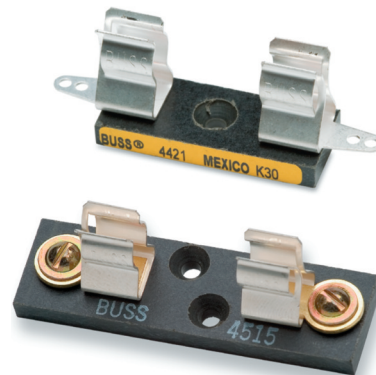
\*Base length: 2 3/4" (69.9mm)

### Dimensions - in (mm)



Note: Mounting screw hole diameter is 0.148" (3.7mm). Countersink, 0.313" (7.9mm). Max. mounting screw no. 6.

## 4421 and 4515



### Specifications

**Description:** Single pole fuse blocks for 13/32" X 1 1/2" (10.3 X 38.1mm) fuses.

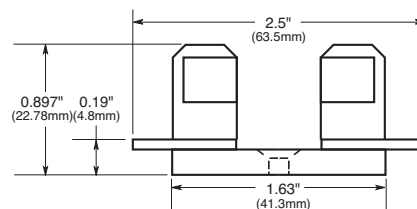
**Dimensions:** See dimensions illustration.

### Ratings:

Volts: — 250Vac/dc (or less)

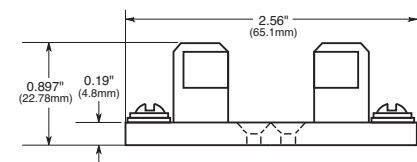
Amps: — 30A

**Agency information:** CE



### 4421—Solder terminals

Base width 5/8" (15.9mm)



### 4515—Screw terminals

Base width 3/4" (19mm)

Note: Mounting screw hole diameter is 0.147" (3.7mm). Countersink, 0.312" (7.9mm). Max. mounting screw no. 6.

**NDNF1-WH****Specifications**

**Description:** Fuse holding rail mount terminal block.

**Circuit jumper:** JF1, 2 circuits

**Fuse size:**  $\frac{13}{32}$ " X  $1\frac{1}{2}$ " (KTK, FNQ, PVM).

**Poles:** 1

**Wire range:** AWG #8-22 Cu.

**Ratings:**

Volts: — 600V

Amps: — 30A

**Mounting options:** 35mm DIN-Rail, C-rail

**Fuse pullers:** • PF1 (standard)  
• LPF1 (lighted neon or incandescent bulb)

**Torque rating:** 18 lb-in

**Operating temperature:** 105°C

**Catalog numbers****Catalog**

| number   | Color |
|----------|-------|
| NDNF1-WH | White |

**Lighted neon or incandescent lamp:****Catalog**

| numbers    | Voltage |
|------------|---------|
| LPF1-24    | 24      |
| LPF1-120   | 120     |
| LPF1-120-C | 120     |
| LPF1-220   | 220     |
| LPF1-440   | 440     |

**NDNLFD1-WH****Specifications**

**Description:** Rail mount fuse holder.

**Circuit jumper:** JF1, 2 circuits.

**Fuse Size:**  $\frac{1}{4}$ " X  $1\frac{1}{2}$ " (Bussmann series AGC, MDL or equivalent).

**Poles:** 1

**Wire range:** AWG #8-22 Cu.

**Ratings:**

Volts: — 600V

Amps: — 30A (NDND1 non-fused)

— 15A (NDNFD1, 600V/CSA, fused)

— 15A (NDNLFD1\*fused, indicating)

\*WH24 - 24V White, WH-90Vdc-600Vdc, 115Vac-600Vac White

**Agency information:** CE

**Mounting options:** 35mm DIN-Rail, C-rail

**Marking tape:** MT12-1-2

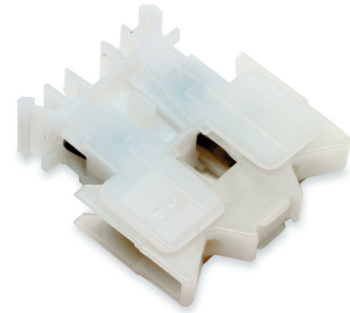
**Torque rating:** 18 lb-in

**Operating temperature:** 105°C

**Agency information:** CSA File 15364

**Catalog numbers****Catalog**

| number        | Color | Indicator                     |
|---------------|-------|-------------------------------|
| NDND1-WH      | White | NO                            |
| NDNFD1-WH     | White | NO                            |
| NDNLFD1-WH    | White | 90Vdc-600Vdc<br>115Vac-600Vac |
| NDNLFD1-WH 24 | White | 24V                           |





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