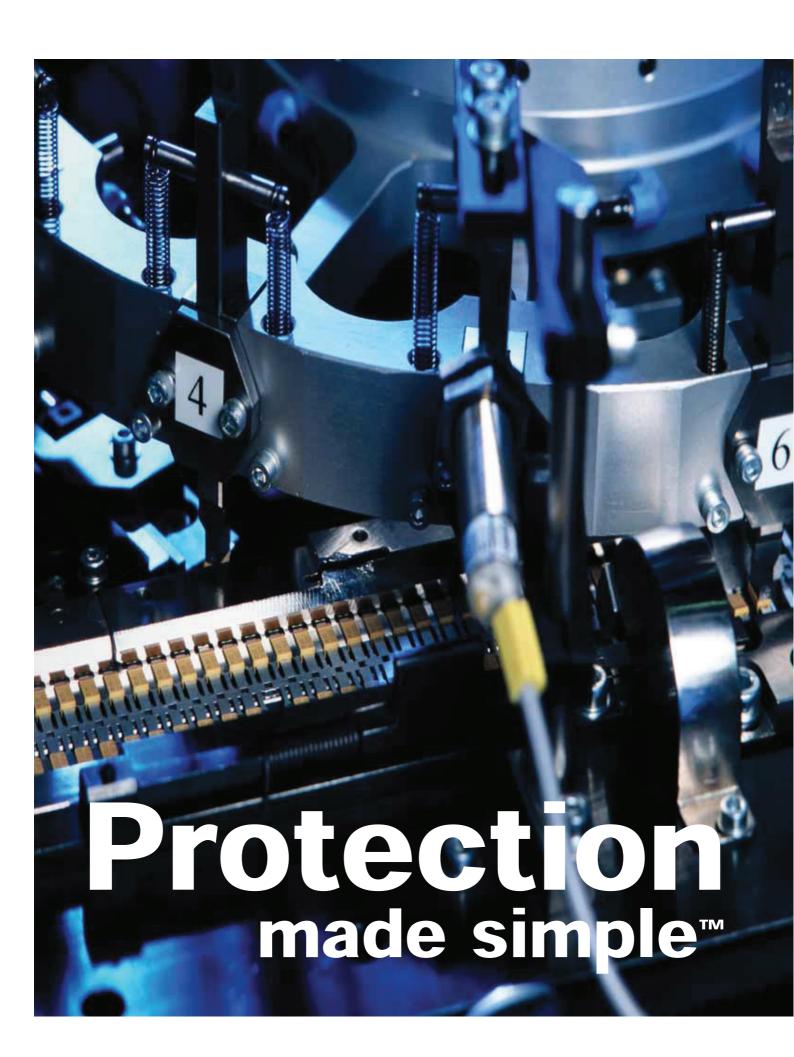


Compact Modular Fuse Holders With the Industry's Best Ratings

Products for PV, IEC and UL Applications

COOPER Bussmann





Compact DIN-Rail Mountable Fuse Holders



Cooper Bussmann CH Series finger-safe modular fuse holders offer a set of advantages you can't find anywhere else.



Best Ratings

With a wide wire range and industry leading ratings - up to 32A, 1000V, 200kA SCCR - the new CH Series provides worldwide acceptance and easy specification - including the latest PV fuse holder standard (UL 4248-18)



Smallest Footprint

The CH Series conserves valuable panel space. Up to 10 percent smaller than the competition.



Ease of Use

Easy to identify and specify, product color coding shows PV, IEC and UL holders at a glance. Optional factory-installed neutral pole and open fuse indication speeds troubleshooting.



Accessories Provide Greater Flexibility

Save time and money by reducing wiring and components. Advanced comb-bus bar and PLC communication accessories expand design possibilities while delivering superior performance.



QuikShip® Service

In stock for QuikShip Everyday Service - 90% of our orders ship within 24 hours. QuikShip Emergency Service ensures you're covered 24/7, 365 with "Next flight out" courier service.

Modular Fuse Holder Specifications and Selection Guide

Features and 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 solar PV fuses.
- Available remote PLC indication with the CH-PLC module.
- 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.



Agency Information: UL File E14853 Guide IZLT Listed, IZLT2 Recognized

CSA: File 47235, CHPV and CHM - Class 6225-30, CHCC - Class 6225-01

Ratings:

600V/30A (UL) 690V/32A (IEC)

Wire Range:

#18 to #4 (0.8mm² to 21.1mm²)

Torque Ratings:

30 Lb-In (3.4 N•m) maximum

Flammability Ratings:

UL 94V0, self-extinguishing

Storage & Operating Temperature Range:

-20°C to +90°C (indicating)

-20°C to +120°C (non-indicating)



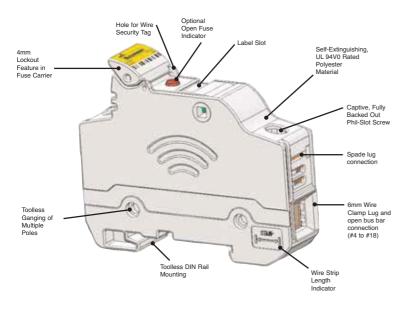
RoHS

	Catalog Number							
Series &	With	Without	Voltage &	Agency	Number	Terminal	SCCR	Cooper Bussmann
Size	Indicator	Indicator	Current	rrent Markings		Rating	Rating	Fuses
CHM 10x38 and Midget	CHM1DIU	CHM1DU		UR; IEC 60269-2; CSA; CCC	1	Solid, Stranded,	200kA	
	CHM2DIU	CHM2DU			2			
	CHM3DIU	CHM3DU	UL		3			
	CHM4DIU	CHM4DU	600V/30A;		4			
	CHM1DNIU	CHM1DNU	IEC 690V/32A	IEC 60269-2	1 pole + 1 neutral			
	СНМЗDNIU	CHM3DNU			3 poles + 1 neutral	Fine Stranded,	rms sym	
	CHM1DI-48U		UL 48Vdc/30A; IEC 48Vdc/32A	UR; IEC 60269-2; CSA; CCC	1	Spade Lug, Comb Bus Bar; Single and		
		CHM1DNXU	IEC 690V/32A	IEC60269-2	1 neutral	Dual Wire:	n/a	n/a
CHPV	CHPV1IU	CHPV1U	111 0 150	UL; CSA; UL4248-18; IEC60269-1; CCC	1	75°C and 90°C Cu wire	33kA	Solar PV series
	CHPV2IU	CHPV2U	UL & IEC; 1000Vdc/30A		2			
CHCC Class CC	CHCC1DIU	CHCC1DU		ccc	1		200kA rms sym	LP-CC, FNQ-R, KTK-R
	CHCC2DIU	CHCC2DU	UL 600V/30A		2			
	CHCC3DIU	CHCC3DU			3			
		CHCC1DI-48U	UL 48Vdc/30A		1			

Modular Fuse Holder Features and Installation Guide

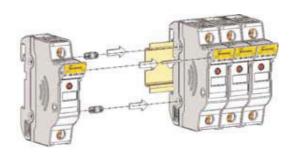


Features

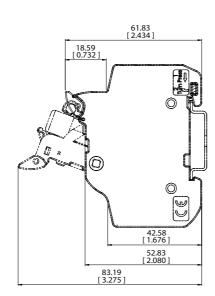


Multi-Pole Ganging

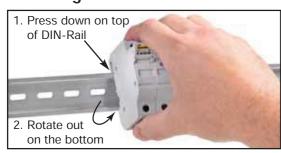
Use multi-pole connection kit part number JV-L to gang multiple poles together. One JV-L kit is sufficient to gang up to 4 poles.

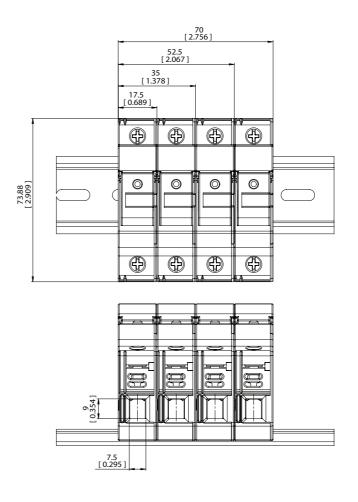


Dimensional Data - mm (in)



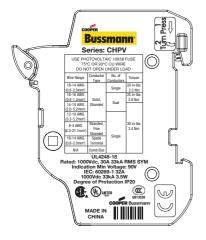
Removing Instructions





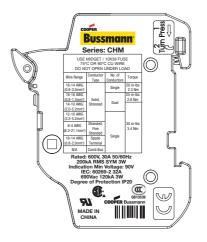
Product Design and Label Specifications

CHPV & CHPVI (PV Applications)



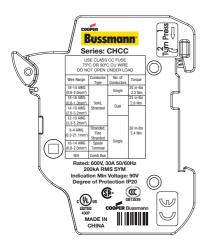


CHM & CHMI



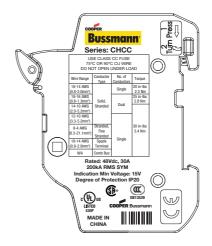


CHCC & CHCCI (UL Applications)



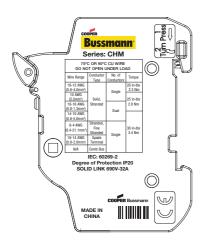


CHCCI-48



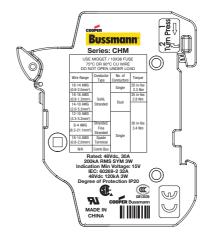


CHMDNX (IEC Applications)





CHMI-48

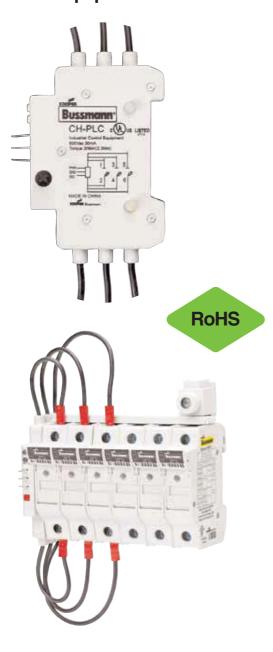




Remote Fuse Monitoring Accessory CH-PLC



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



Specifications:

- Power Input: 24Vdc / 5mASensing 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 22-24AWG (0.25mm²) 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:

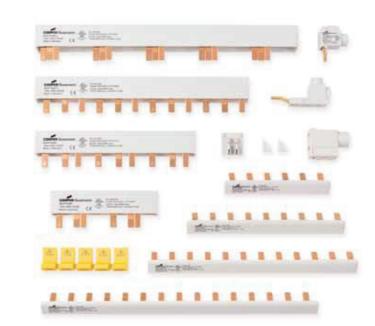
- The CH-PLC signal line is designed to provide a digital input to a PLC I/O card.
- Programmable Logic Control program must be written to properly interpret the input signal to the PLC.
- The PLC program should check for consecutive high signals before taking action on a critical process.

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

Comb-Bus Bar Specifications and Selection Guide

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 (200A for center-fed configuration)
- Three-phase bus bars rated to 600Vac/dc and 100A in end-fed configuration (200A for center-fed configuration)
- Power feed terminals for single-phase and three-phase service





Agency Information: UL508, File E195399

Pitch: 17.8mm

SCCR: 10kA (default)

100kA (with upstream Class J 200A fuses)

Max Current: 100A (power feed from end;

200A (power feed from center)

Max Voltage: 600Vac/dc (three phase)

1000Vdc/600Vac (single phase)



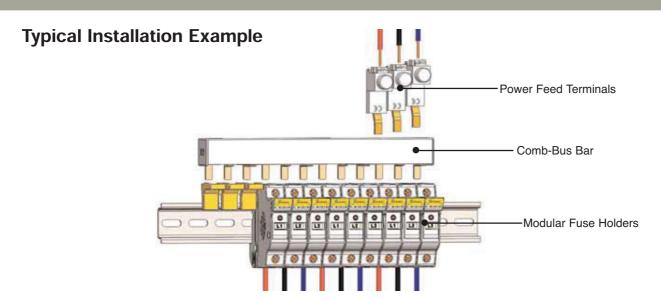
Selection Guide

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	R1PLP Single-phase low-profile feeder terminal (115A, 1000Vac/dc)	
PWR50MM	50mm² direct feed terminal (1000Vac/dc)	

RoHS

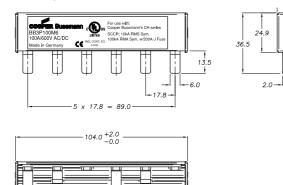
Comb-bus Bar Features and Installation Guide



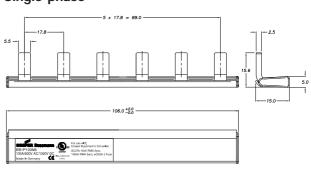


Typical Dimensional Data

Three-phase



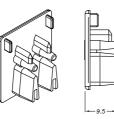
Single-phase



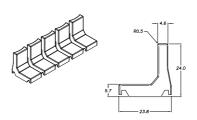
ECAP1P



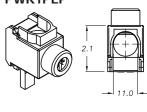
ECAPMP



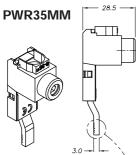
FSCVR



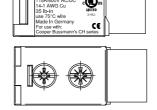
PWR1PLP

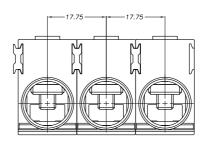


PWR35MM



PWR50MM





CH Series Modular Fuse Holder Specifications







IEC









UL

Class J 30A

8x32 IEC

14x51 IEC

22x58 IEC

Catalog Num	nbers								
			Max				No. of		
Without Indication	With* Indication	Size	Voltage & Current	IEC	UL	Phase Configuration	17.5mm Modules	Wire Range	Maximum Torque
CH081D	CH081DI	0.20	G Garron	•	02	1-pole	1	1-16mm² (18-8 AWG)	2.5 N•m (22LB-In)
CH081DNX	-					1 Neutral Pole	1	()	
CH081DNS	CH081DNSI			•		1-pole + Neutral	1	1-10mm² (18-8 AWG)	2.0 N•m (17.5LB-ln)
CH081DN	CH081DNI	CH08	IEC	•		1-pole + Neutral	2		
CH082D	CH082DI	8x32	400Vac	•		2-pole	2		
CH083D	CH083DI		25A	•		3-pole	3	1-16mm² (18-8 AWG)	2.5 N•m (22LB-In)
CH083DNS CH083DN	CH083DNSI CH083DNI			:		3-pole + Neutral 3-pole + Neutral	3 4		
CH084D	CH084DI					4-pole	4		
CHM1DU	CHM1DIU				*	1-pole	1		
CHM2DU	CHM2DIU		UL	:	*	2-pole	2		
CHM3DU	CHM3DIU	CHM	600V/30A;		*	3-pole	3		
CHM4DU	CHM4DIU	10X38	IEC		*	4-pole	4		
CHM1DNU	CHM1DNIU	and	690V/32A	•	*	1-pole + Neutral	2		
CHM3DNU	CHM3DNIU	Midget		•	*	3-pole + Neutral	4	1-21mm² (18-4 AWG)	3.4 N•m (30LB-In)
	_		UL 48Vdc/30A;						
_	CHM1DI-48U		IEC	•	*	1-pole	1		
OLIMADAIVII			48Vdc/32A	┥.		A male a Newtral			
CHM1DNXU	-		IEC 690V32A			1-pole + Neutral	2		
CHPV1U	CHPV1IU	CHPV	UL & IEC;	•	†††	1-pole	1		
CHPV2U CHCC1DU	CHPV2IU CHCC1DIU		1000Vdc/30A		††† **	2-pole 1-pole	2		
CHCC1DU CHCC2DU	CHCC1DIU CHCC2DIU	CHCC	UL		**	2-pole	2	1-21mm² (18-4 AWG)	3.4 N•m (30LB-In)
CHCC3DU	CHCC3DIU	Class CC	600V/30A	i00V/30A	**	3-pole	3	12111111 (10 47440)	3.4 N*III (30EB-III)
CHCC1DI-48U	-	0.00000	UL 48Vdc/30A		**	1-pole	1		
CH141D	CH141DI					1-pole	1.5		
CH141DMS	-		UL			1-pole + Microswitch	1.5		
CH141DNX	-		600Vac/dc	•		1 Neutral Pole	1.5		
CH141DN	CH141DNI		40A	•		1-pole + Neutral	3		
CH142D	CH142DI	CH14	(5 Watt)	•	†	2-pole	3	2.5-16mm² (14-6 AWG)	3.0 N•m (26LB-In)
CH143D	CH143DI	14x51	IEC	•	†	3-pole	4.5		
CH143DMS CH143DN	- CH143DNI		690Vac, 50A			3-pole + Microswitch 3-pole + Neutral	4.5 6		
CH143DNMS	CH 143DINI		JUA	:		3-pole + Neutral + Microswitch	6		
CH144D	CH144DI					4-pole	6		
CH221D	Not				+	1-pole	2		
CH221DMS	Available				'	1-pole + Microswitch	2		
CH221DMX	with		UL			1 Neutral Pole	2		
CH221DN	local		600Vac/dc,			1-pole + Neutral	4		
CH222D	neon	CH22	100A	•	†	2-pole	4	2.5-50mm ² (14-1 AWG)	4.0 N•m (35LB-In)
CH223D	indication	22x58	(9.5 Watt)	•	†	3-pole	6		
CH223DMS	(remote		IEC	•		3-pole + Microswitch	6		
CH223DN	microswitch		690Vac,	•	†	3-pole + Neutral	8		
CH223DNMS CH224D	only)		125A	:		3-pole + Neutral + Microswitch 4-pole	8 8		
Class J	Neon					. 5010	<u> </u>		
easyID™ Indication	Indication								
CH30J1	CH30J1I	CH30J	UL/CSA		††	1-pole	_	1-50mm² (18-1 AWG)	1-8 AWG 4.0 N•m (35LB-Ir
CH30J2	CH30J2I	30A	600Vac		††	2-pole	-		10-18 AWG 2.7N•m (24LB-
CH30J3	CH30J3I	Class J			††	3-pole		4.50 0.46	
CH60J1 CH60J2	CH60J1I CH60J2I	CH60J 60A	UL/CSA 600Vac		†† ++	1-pole 2-pole	_	1-50mm² (18-1 AWG)	1-8 AWG 4.0 N·m (35LB-li 10-18 AWG 2.7N·m (24LB
CH60J2 CH60J3	CH60J2I CH60J3I	Class J	OUUVAC	1	†† ††	3-pole	_		10-10 AWG 2./ NºIII (24LB

[†] UL Recognized (cURus) †† UL LIsted (cULus) ††† UL Recognized, Standard 4248-18, CSA For further details see Data Sheets 2053 (CH08, CHM, CHCC, CH14 AND CH22) and 2144 (CHJ Class J) *90V miminum required for illumination ****12V mininum required for illumination

^{*} UL Recognized, CSA
** UL Listed, CSA

Widest Range of Fuse Holders Available



Modular Fuse Holders Series		Covers SAMI™ Series	
CUBEFuse™ Series		Open Block Series	
IEC Series		Bolt-Down Series	
CH Series		In-line Series	
JTN 600 Series		Panel Mount Series	
Optima [®] Series		Knife Blade Series	
Class CC and Midget Series	0 CE	Military Series	Control of the second s

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Customer Satisfaction Team

Available to answer questions regarding Cooper Bussmann products & services Monday-Friday, 8:00 a.m. – 6:00 p.m. Central Time. Contact:

- Toll-free phone: 855-287-7626 (855-BUSSMANN)
- Toll-free fax: 800-544-2570
- E-mail: busscustsat@cooperindustries.com

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Next flight out or will call shipment for time-critical needs. Customers pay only standard product price, rush freight charges, & modest emergency service fee. Place these orders through the Customer Satisfaction Team during regular business hours. For after-hours, contact:

- After hours 314-995-1342
- C³ the Enhanced, Online Cooper Customer Center Provides real time product availability, net pricing, order status & shipment tracking across six Cooper divisions: B-Line, Bussmann, Crouse-Hinds, Lighting, Power Systems & Wiring Devices. Call 877-995-5955 for log-in assistance. Available at:
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- Product & technical materials
- Solutions centers for information on topical issues including arc-flash, selective coordination & short-circuit current rating
- Technical tools, like our arc-flash calculator
- Where to purchase Cooper Bussmann product

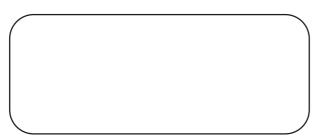
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