

# HCTR Current Limiting Class CC Fuses



## Features

- Branch circuit rated for 600 VAC
- Compact dimensions
- Time-delay design allows closer sizing for inductive loads such as control transformers and solenoids

## Applications

- Primary protection for our PH series of control power transformers. See our complete selection listed at the end of this catalog section.

## HCTR Specifications

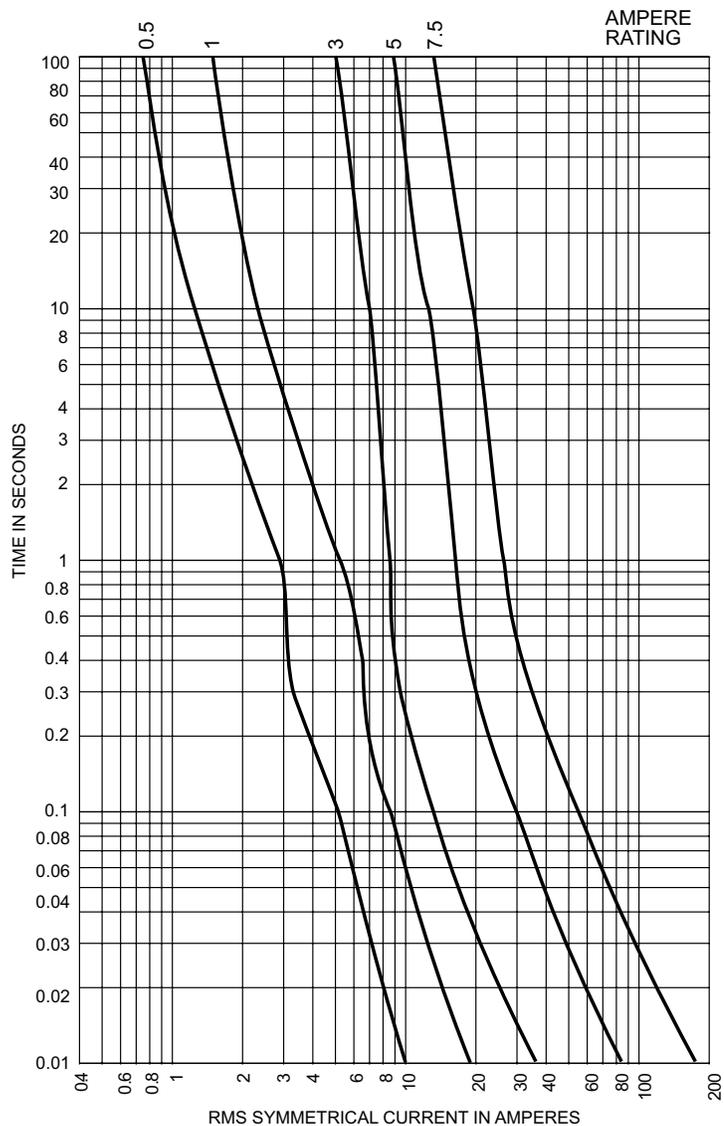
Time-Delay  
 Voltage Rating: HCTR - 600 VAC  
 Ampere Rating: 0.25 - 30 Amps  
 Interrupting Rating:  
 200,000 RMS Symmetrical Amps  
 Current Limiting: Class CC Fuse

## Agency Approvals

- UL Listed, Class CC, Guide JDDZ, File E162363
- CSA Certified HRCI-MISC per C22.2, No. 248.4
- CE Compliant

HCTR Current Limiting Class CC Fuses				
Part Number	AMP Rating	Pcs/Pkg	Package Weight	Price
<u>HCTR-25</u>	0.25	10	0.2 lb	\$195.00
<u>HCTR-5</u>	0.5			\$167.00
<u>HCTR-75</u>	0.75			\$211.00
<u>HCTR1</u>	1			\$167.00
<u>HCTR1-25</u>	1.25			\$211.00
<u>HCTR1-5</u>	1.5			\$169.00
<u>HCTR2</u>	2			\$169.00
<u>HCTR2-5</u>	2.5			\$187.00
<u>HCTR3</u>	3			\$167.00
<u>HCTR3-5</u>	3.5			\$211.00
<u>HCTR4</u>	4			\$182.00
<u>HCTR5</u>	5			\$169.00
<u>HCTR6</u>	6			\$187.00
<u>HCTR7-5</u>	7.5			\$203.00
<u>HCTR8</u>	8			\$187.00
<u>HCTR10</u>	10			\$182.00
<u>HCTR15</u>	15			\$172.00
<u>HCTR20</u>	20			\$180.00
<u>HCTR25</u>	25			\$180.00
<u>HCTR30</u>	30			\$180.00

Time-Current Characteristic Curves - Total Clearing



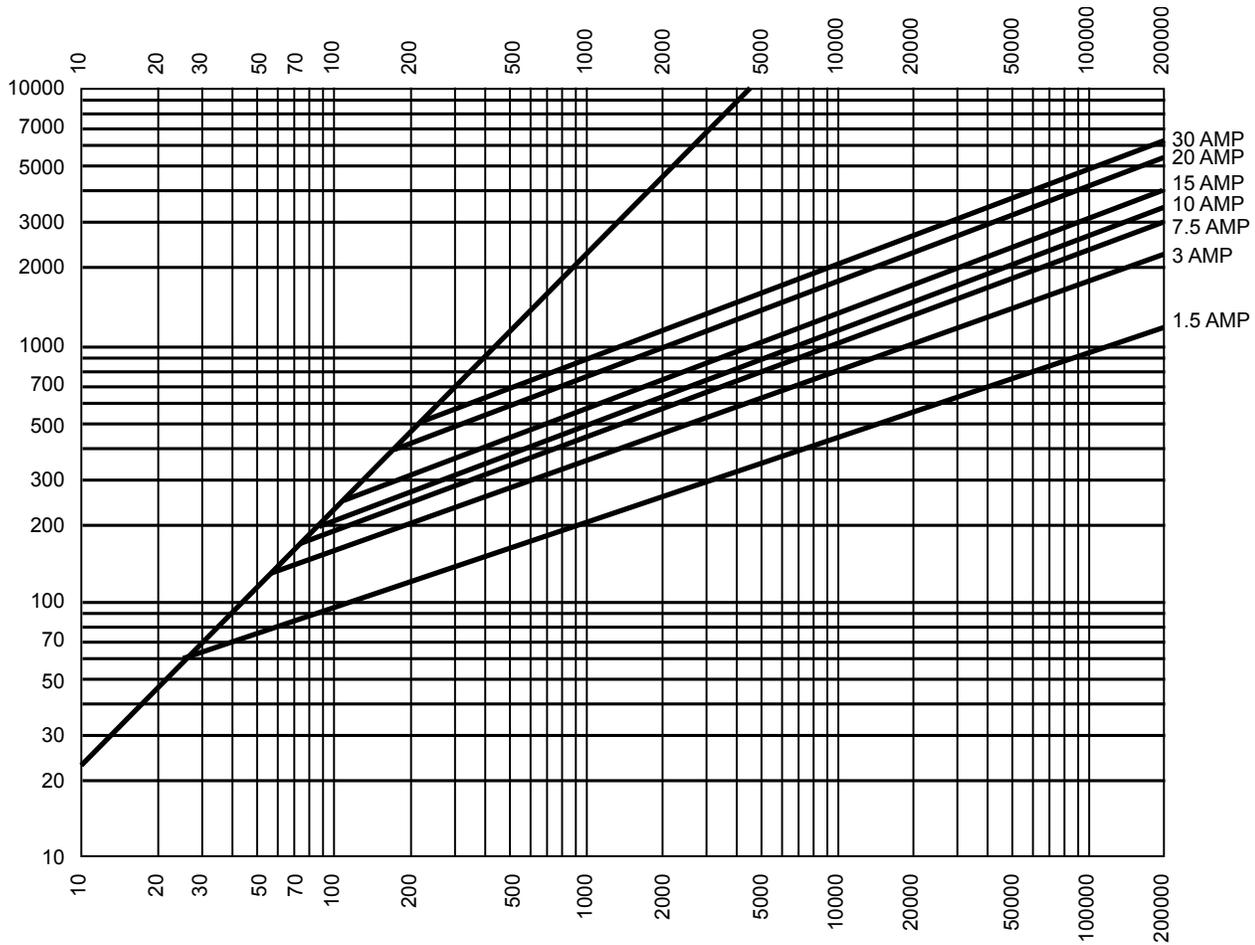
DIMENSIONS		
Amps	Ferrule (in)	Length (in)
0.25 - 30	13/32	1-1/2

CROSS REFERENCE			
EDISON	BUSSMANN	GOULD	LITTELFUSE
HCTR	FNQ-R	ATQR	KLDR

# HCTR Current Limiting Class CC Fuses



## Instantaneous Peak Let-Thru Current





# Selection Guide

## Line Overview

The Edison family of fuses, fuse blocks and fuse holders is divided into two classes:

1. Current Limiting: Class CC, Class J, Class L, Class RK, Class T
2. General Purpose: Class M Midget and Small Dimension

The fuse selection guide below is a general summary of the

specifications included for each fuse type. This selection guide does not include the many variables that can exist for specific situations such as local codes, unusual temperature, or other operating conditions. When selecting fuses, be sure to comply with any applicable PUBLIC SAFETY standards that apply to Overcurrent Protection Devices (OPD).

Edison Fuses Selection Guide and General Specifications												
Description	Current Limiting											
	Class J		Class RK5		Class RK1		Class T		Class L	Class CC		
Fuse Type	Fast-Acting	Time-Delay	Time-Delay				Extremely Fast-Acting	Fast-Acting	Fast-Acting	Time-Delay		
Part Number	JHL	JDL	ECNR	ECSR	LENRK	LESRK	TJN	TJS	LCU	HCLR	HCTR	EDCC
Voltage Rating	600VAC 450VDC	600VAC 300VDC*	250VAC 125 VDC* (1-200A) 250VDC* (201-600A)	600VAC 300VDC*	250VAC 125 VDC* (10-60A) 250VDC* (70-600A)	600VAC 300VDC*	300VAC 160 VDC (15-600A)	600VAC	600V	600VAC 300VDC (15-20A)	600VAC	600VAC 300VDC (0.5-2.25A) (20-30A)
Amp Rating	1 - 600		1 - 600	3 - 600	10 - 600	5 - 600	1 - 600		601 - 1200	0.5 - 30	0.25 - 30	0.5 - 30
Interrupting Rating	200,000 RMS Symmetrical Amps											
Current Limiting	Class J		Class RK5		Class RK1		Class T		Class L	Class CC		
Agency Approvals	UL Listed Class J Guide JDDZ File E162363 CSA Certified HRCI-J per C22.2, No. 248.8 File 700489 RoHS compliant	UL Listed Class J Guide JDDZ File E162363 CSA Certified HRCI-J per C22.2, No. 248.8 File 700489	UL Listed, Class RK, Guide JDDZ, File E162363 CSA Certified HRCI-R per C22.2, No. 248.12, File 700489 (LENRK CSA File 053787)				UL Listed, Class T, Guide JDDZ, File E162363 CSA Certified HRCI-T per C22.2, No. 248.12, File 53787, Class 1422-02 & 1422-82		UL Listed, Std. 248-10 CSA Certified, HRC-L C22.2 No. 248.10, Class 1422- 02, File 53787	UL Listed to 248.4, Class CC, Guide JDDZ, File E162363, CSA certified HRCI-MISC per C22.2 No. 248.4, File 700489		
Dimensions	See product specification pages.									ferrule (in): 13/32, length (in): 1-1/2		

\* Self-certified DC ratings

Edison Fuses Selection Guide and General Specifications													
Description	General Purpose – Midget				General Purpose – Small Dimension Electronic								
	Fast-Acting		Time-Delay		Fast-Acting Ceramic	Fast-Acting Glass		Medium Time-Delay Glass	Time-Delay Ceramic	Time-Delay Glass	Fast-Acting Glass	Time-Delay Glass	
Part Number	MCL	MOL	MEQ	MEN	ABC	AGC	GMA	GMC	MDA	MDL	S500	S506	
Voltage Rating	600 VAC	250 VAC	500 VAC	250 VAC	250 VAC (0.5 to 30A) 125VDC: (0.5 to 30A)	250VAC: (0.1 to 10A) 32VAC: (15 to 30A)	250VAC (0.063 - 3A) 125VAC (4 - 15A)	250VAC (0.5 - 3A) 125VAC (4 - 10A)	250VAC 125VDC (20A)	250VAC: (0.0625 to 8A) 32VAC: (10 to 20A)	250VAC	250VAC	
Amp Rating	0.5 to 50	0.5 to 30	0.25 to 30	0.5 to 30	0.5 to 30	0.10 to 30	0.063 to 15	0.5 to 10	0.5 to 20	0.0625 to 20	0.032 to 10	0.25 to 6.3	
Interrupting Rating	100,000 RMS Amps	10,000 RMS Amps				See specifications table on product pages							
Current Limiting	N/A				N/A								
Agency Approvals	UL Listed to 248.14, File E162443 CSA Cert. C22.2 Part 59.2, LR 700489				UL Listed standard 248-14 UL Listed Guide and File nos. (ABC 0.25-20 A): (AGC 1/100-10 A) JDYX and E19180 UL Recognition Guide and File nos. (ABC 20-30A):(AGC 11-30) JDYX2 and E19180 CSA Certification Record No: 053787 C 000 and Class No: 1422 01 and 1422 30	Designed to UL/CSA 248-14 UL Listed, Guide JDYX, File E19180 63mA-6A UL Recognition, Guide JDYX2, File E19180, 7A-15A CSA Certified, File 053787_C_000, 63mA-6A Class 1422-01		UL Listed standard 248-14 UL Listed Card: MDA 2/10-20A, MDL 1/16-8A (Guide JDYX, File E19180 UL Recognized Card: MDA 25-30A MDL 9-30A (Guide JDYX2, File E19180) CSA Certification Card: MDA 2/10-15A (Class No. 1422-01)		UL Recognized Guide JDYX2, File E19180 Semko Approval VDE Approval BSI Approval IMQ Approval RoHS compliant			
	RoHS												
Dimensions	ferrule (in): 13/32 length (in): 1-1/2				1/4" x 1-1/4", (6.3mm x 32mm)		0.197" x 0.788" (5mm x 20mm)		1/4" x 1-1/4", (6.3mm x 32mm)		0.197" x 0.788" (5mm x 20mm)		

# Modular Ferrule Fuse Blocks for Midget Class and CC Fuses



## Description

- BCM Series for use with Class CC fuses EDCC, HCTR and HCLR
- BMM Series for use with Midget Class Midget fuses MCL, MEQ, MEN & MOL

### Mounting

35mm DIN rail or panel mount

## Specifications

### Materials:

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

**SCCR:** 200kA

### Flammability rating:

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

### Operating and storage temp range:

Blocks – -40° to 120°C [-40° to 248°F]  
 Covers – indicating -20° to 90°C [-4° to 194°F]  
 – non-indicating -40° to 120°C [-40° to 248°F]

### Wire:

Cu – 75°/90°C [ 167°/194°F]  
 Ring or Fork terminal to fit a #10-32 screw

## Agency Approvals

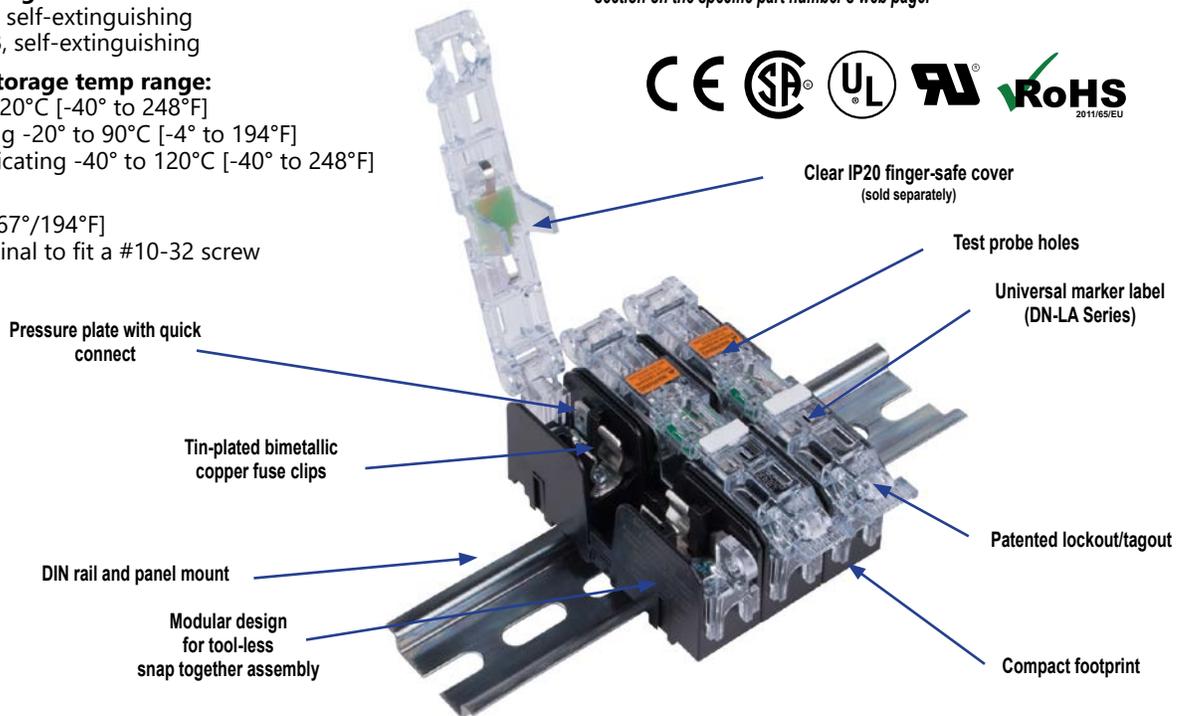
### Fuse Blocks

- BCM – UL® Listed E14853 - IZLT
- BMM and BCCM UL Recognized E14853-IZLT2
- CSA® Certified 47235-6225-01
- CE
- RoHS Compliant
- Conflict mineral free
- REACH Compliant

### Covers

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

To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.



## Pressure Plate (with Quick Connect\*\*) Modular Ferrule Fuse Blocks for Midget Class and CC Fuses

Class	Part Number	Pc/pkg	Price	Volts	Amps	Poles	Wire Range <sup>1</sup>		Torque lb-in [N·m]	Wt. lb [kg]	Covers* (Sold Separately)		
							Solid and Stranded	Fine Stranded			w/o Indication	With Indication <sup>3</sup>	Pc/pkg
Midget	<a href="#">BMM603-1PQ</a>	15	\$152.00	600V AC/DC	30	1	18-10 AWG	18-10 AWG	20 [2.3]	0.05 [0.04]	<a href="#">CVR-CCM-QC</a> \$31.50	<a href="#">CVR-CCM-QC</a> \$41.00	3
	<a href="#">BMM603-2PQ</a>	5	\$86.00			2				0.15 [0.06]			
	<a href="#">BMM603-3PQ</a>	5	\$110.00			3				0.20 [0.10]			
	<a href="#">BMM603-1PQ-1</a>	1	\$11.00			1				0.05 [0.04]			
CC	<a href="#">BCM603-1PQ</a>	15	\$209.00			1				0.05 [0.04]			
	<a href="#">BCM603-2PQ</a>	5	\$107.00			2				0.15 [0.06]			
	<a href="#">BCM603-3PQ</a>	5	\$134.00			3				0.20 [0.10]			
	<a href="#">BCM603-1PQ-1</a>	1	\$15.00			1				0.05 [0.04]			
Combo	<a href="#">BCCMM603-3PQ<sup>2</sup></a>	5	\$146.00			3			0.20 [0.10]				

<sup>1</sup> Ratings are for copper wire only.

<sup>2</sup> Combination modular fuse block for use with transformers. Accepts two (2) Class CC and one (1) Midget class fuse.

<sup>3</sup> Open fuse indication requires 90V minimum and closed circuit to operate.

\*Once installed, the cover cannot be removed.

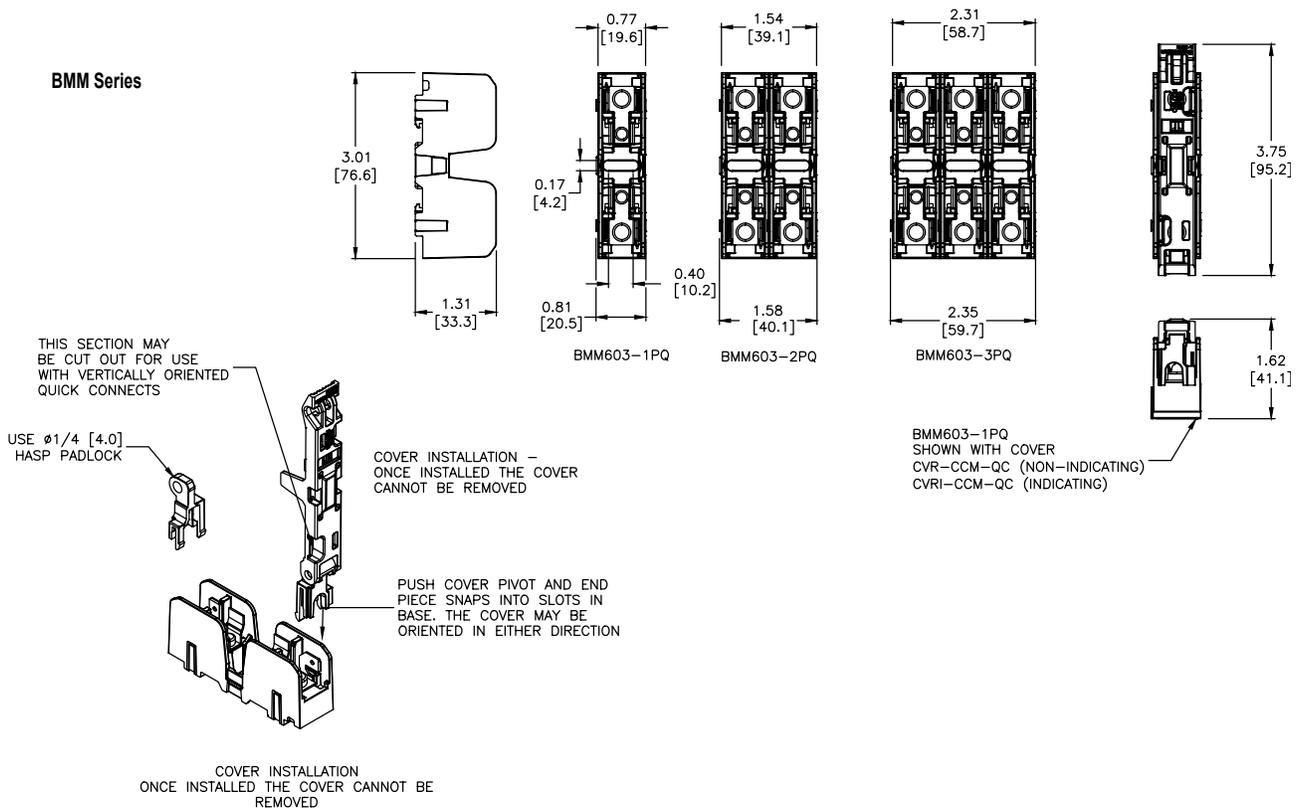
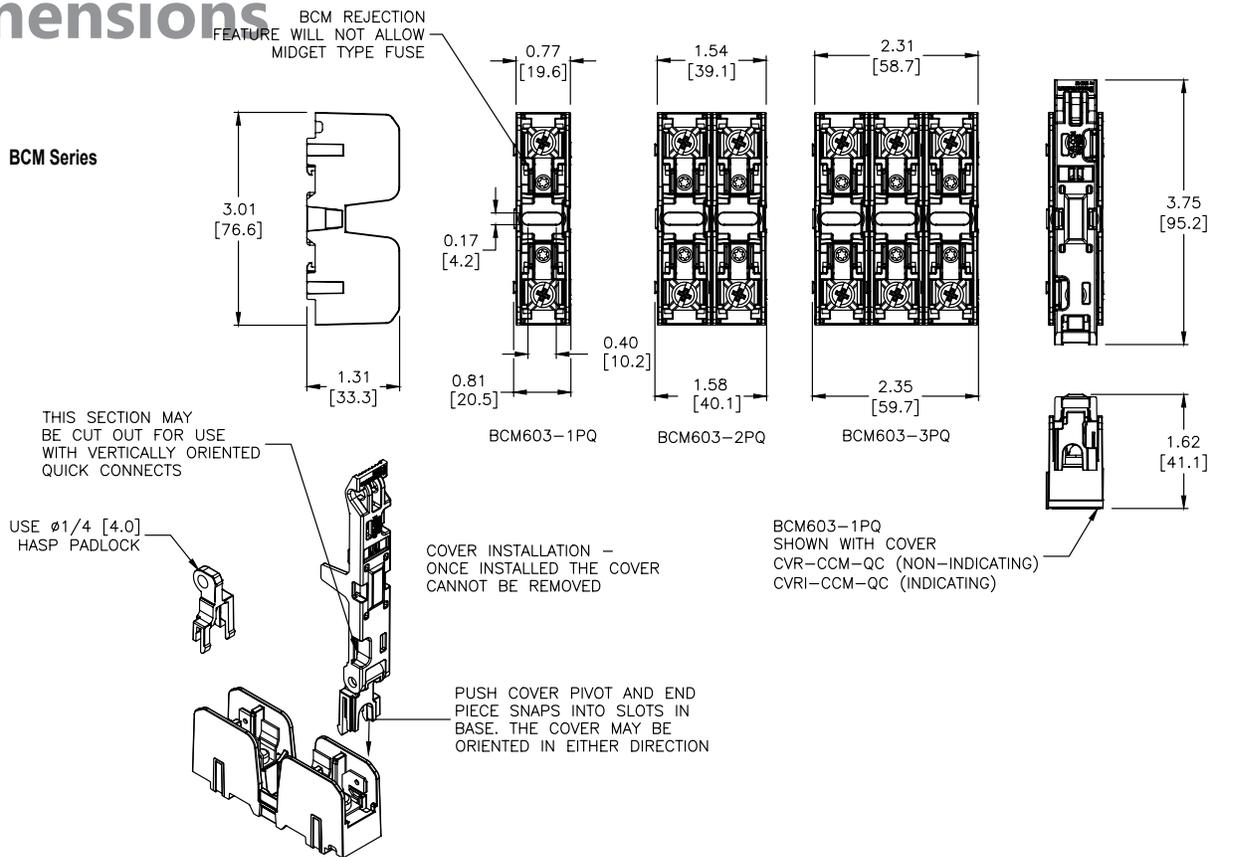
\*\*Quick connect terminal rated for 20A maximum.



# Modular Ferrule Fuse Blocks for Midget Class and CC Fuses

## Dimensions

in [mm]



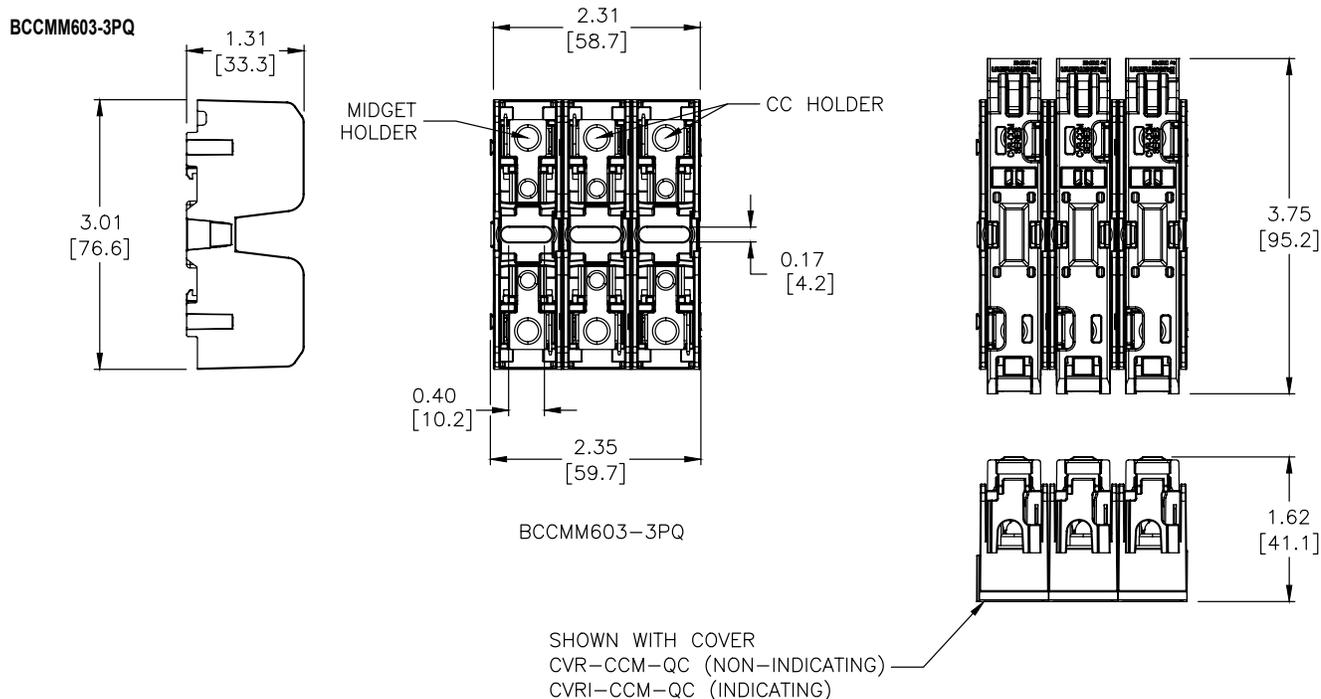
Please see our website [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete engineering drawings. Dimensions are approximate. Not for construction purposes.



# Modular Ferrule Fuse Blocks for Midget Class and CC Fuses

## Dimensions

in [mm]



Please see our website [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete engineering drawings. Dimensions are approximate. Not for construction purposes.

# Accessories



**FP-2**

Accessories			
Part Number	Description	Pcs/Pkg	Price
<b>FP-2</b>	Fuse puller for fuse dia. 13/32" - 13/16". Fuse type: 0-60A, 250V; 0-30A, 600V	1	\$40.00
<b>JV-L*</b> <i>(Not Field Installable)</i>	Multi-pole connection kit to connect new design multiple Class CC and Midget Class fuse holders together. Kit consists of 6 connectors and 3 handle pins to connect up to 4 fuse holders.		\$15.00

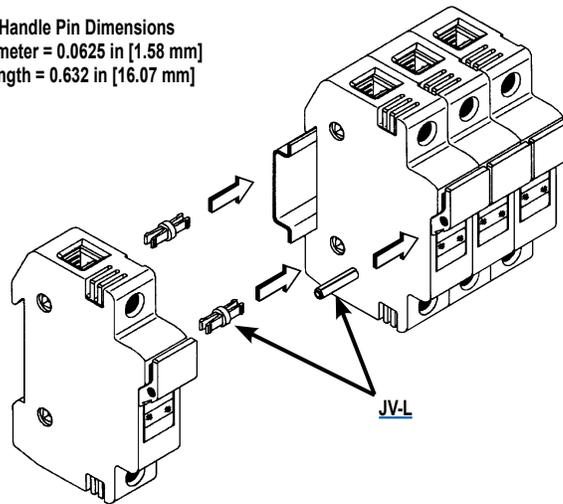
*Note: Will not work with retired design fuse holders shipped before November 1, 2009.*

*\*Roll pin punch or installation tool is required to install handle pins (Tool not sold by [AutomationDirect.com](http://AutomationDirect.com)).*



**JV-L**

Handle Pin Dimensions  
 Diameter = 0.0625 in [1.58 mm]  
 Length = 0.632 in [16.07 mm]



# Cross Reference Guide



## CROSS REFERENCE GUIDE By manufacturers type reference or series number. Ampere ratings must be added for ordering purposes.

FUSE TYPE		VOLT	EDISON	BRUSH/ DORMAN	BUSSMANN	MERSEN / GOULD	GEC/CEFCO	LITTELFUSE
<b>UL CLASS CURRENT LIMITING FUSES (CSA CLASS)</b>								
<b>CC (HRCI-CC)</b>	<i>Time-Delay</i>	600	EDCC	-	LP-CC	ATDR	-	CCMR
	<i>Time-Delay</i>	600	HCTR	-	FNQ-R	ATQR	-	KLDR
	<i>Fast-Acting</i>	600	HCLR	HCLR	KTK-R	ATMR	CTK-R	KLKR
<b>RK1</b>	<i>Time-Delay Dual Element</i>	250	LENRK	-	LPN-RK-SP	A2DR	-	LLNRK
		600	LESRK	-	LPS-RK-SP	A6DR	-	LLSRK
<b>RK5</b>	<i>Time-Delay Dual Element</i>	250	ECNR	-	FRN-R	TR	-	FLNR
		600	ECSR	-	FRS-R	TRS	-	FLSR
<b>J</b>	<i>Time-Delay Dual Element</i>	600	JDL	-	LPJ	AJT	-	JTD
	<i>High-Speed AC Drive</i>	600	JHL	-	DFJ	HSJ	-	-
<b>T</b>	<i>Extremely Fast-Acting</i>	300	TJN	-	JJN	A3T	-	JLLN
		600	TJS	-	JJS	A6T	-	JLLS
<b>UL CLASS GENERAL PURPOSE FUSES</b>								
<b>Midget</b>	<i>Fast-Acting</i>	600	MCL	MCL	KTK	ATM	CTK	KLK
		250	MOL	MOL	BAF/BAN	OTM	-	BLF
	<i>Time-Delay</i>	500	MEQ	MEQ	FNQ	ATQ	-	FLQ
		250	MEN	MEN	FNM	TRM	-	FLM
<b>1/4"x 1-1/4" Ceramic</b>	<i>Fast-Acting</i>	250/125	ABC	ABC	ABC	GAB	-	314
<b>1/4"x 1-1/4" Glass</b>		250/32	AGC	AGC	AGC	GGC	-	312
<b>1/4"x 1-1/4" Ceramic</b>	<i>Time-Delay</i>	250	MDA	MDA	MDA	-	-	326
<b>1/4"x 1-1/4" Glass</b>		250/32	MDL	MDL	MDL	GDL	-	313
<b>5x20 mm Glass</b>	<i>Fast-Acting</i>	250/125	GMA	GMA	GMA	GGM	-	235
	<i>Medium Time-Delay</i>	250/125	GMC	GMC	GMC	GSC	-	-
<b>5x20 mm Glass</b>	<i>Fast-Acting</i>	250	S500	BDB	GDB	GSB	-	217
	<i>Time-Delay</i>	250	S506	BDC	GDC	GDG	-	218
<b>Fuse Puller</b>								
<b>Fuse Puller FP-2</b>			old - 38072 new - FP-2	-	FP-2	-	-	-