### 1-800-633-0405 For the la Class J High-Speed Drive Fuses



70 – 600 A

EDISON JHL Class J fuses combine the performance of high-speed semiconductor fuses and the convenience of Class J branchcircuit fuses in one small package, allowing maximum protection for AC and DC drives\* and controllers.

\* Note: JHL fuses can be used with GS and DURApulse drives in non-UL applications. Fuse the drive according to NEC guidelines (NEC Article 430). For UL applications, GS and DURApulse drives require Class T fuses (refer to the drive's user manual for details).

Part	AMP	Rated	Pcs/	Pkg		Pa	O <mark>rive Fu</mark> rt	Pcs/	Pkg				
Number	Rating	Voltage (max)	Pkg	Weight (lb[kg])	Price		mber	Pkg	Weight (lb[kg])	Price			
JHL1	1				\$218.00	Jŀ	IL1-1		,	\$29.5			
JHL2	2				\$235.00	Jŀ	<u>IL2-1</u>			\$29.5			
JHL3	3				\$218.00	Jŀ	<u>IL3-1</u>			\$29.5			
JHL4	4	]			\$246.00	Jŀ	<u>IL4-1</u>			\$31.0			
JHL5	5				\$235.00	Jŀ	<u>IL5-1</u>			\$29.5			
JHL6	6	]			\$235.00	Jŀ	<u>IL6-1</u>			\$29.5			
JHL8	8	]		1.0	\$249.00	Jŀ	<u>IL8-1</u>		0.10	\$31.0			
<u>JHL10</u>	10	]		[0.45]	\$235.00	Jŀ	IL10-1		[0.05]	\$29.5			
<u>JHL12</u>	12	1			\$249.00	Jŀ	IL12-1			\$31.0			
<u>JHL15</u>	15	1	10		\$237.00	Jŀ	IL15-1	1		\$29.5			
<u>JHL17P5</u>	17.5	1			\$242.00	Jŀ	IL17P5-1			\$28.0			
<u>JHL20</u>	20	1			\$237.00	Jŀ	IL20-1			\$29.5			
<u>JHL25</u>	25	1			\$237.00	Jŀ	IL25-1			\$29.5			
<u>JHL30</u>	30	1			\$237.00	Jŀ	IL30-1			\$29.5			
<u>JHL35</u>	35	1			\$405.00	Jŀ	IL35-1			\$46.5			
<u>JHL40</u>	40	1			\$405.00	Jŀ	IL40-1			\$46.5			
<u>JHL45</u>	45	1		1.5 [0.68]	\$405.00	Jŀ	IL45-1		0.16 [0.07]	\$46.5			
<u>JHL50</u>	50	600 VAC			\$405.00	Jŀ	IL50-1		[0.07]	\$46.5			
<u>JHL60</u>	60	450 VDC			\$405.00	Jŀ	L <u>60-1</u>			\$50.00			
<u>JHL70</u>	70							\$82.00	JHL Dimensions				
<u>JHL80</u>	80	]		0.30	\$82.00	•	יחב טו	me	15				
<u>JHL90</u>	90	1		[0.14]	\$87.00	1	<b>←</b> A—	<b>→</b>	В	K			
<u>JHL100</u>	100	1			\$82.00	1		—'		- +			
<u>JHL110</u>	110	1		0.70 [0.32]	\$159.00	1				- 1			
JHL125	125	1			\$166.00	1	1-6	50A					
<u>JHL150</u>	150			0.8	\$166.00	1		JH	IL Seri	es D			
<u>JHL175</u>	175			[0.36]	\$163.00	]	Range	A	В	С			
<u>JHL200</u>	200	]	1		\$166.00	]	1-30	2.25 [57.2	0.81	_			
<u>JHL225</u>	225	]			\$282.00		,						
<u>JHL250</u>	250	]			\$255.00		35-60	2.38	1.06   [26.9]	-			
<u>JHL300</u>	300	- - - -		1.6 [0.73]	\$255.00		70-100	4.63	1.13	1.0			
<u>JHL350</u>	350			[0.70]	\$265.00			[117.6					
<u>JHL400</u>	400				\$255.00		110-200	5.75 [146.1	] [41.4]	1.3 [35.			
<u>JHL450</u>	450				\$387.00		225-400	7.13	2.11	1.8			
<u>JHL500</u>	500			2.6 [1.18]	\$400.00			[181.1 8.00					
<u>JHL600</u>	600			[1.18]	\$391.00		450-600	8.00 [203.2	2.50 [63.5]	2.13			

For the latest prices, please check AutomationDirect.com.



### **Applications**

- AC and DC drives
- Electronic motor controllers
- Power semiconductor devices that utilize diodes, GTOs, SCRs, or SSRs

### JHL Features

- Space saving Class J dimensions allow the use of readily available Class J fuse blocks, holders, and switches
- Allows the lowest l2t let-through energy of any branch-circuit overcurrent protective device
- Works with existing and new variable speed drives and electronic motor controllers
- Meets UL, CSA, and NEC requirements for branch circuit protection devices

### **Specifications**

Voltage Rating: 600 VAC; 450 VDC

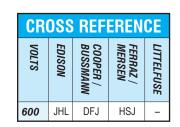
Ampere Rating: 1 - 600 Amps

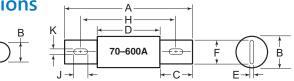
Interrupting Rating: 200,000 RMS Symmetrical Amps; 100,000 DC Amps

Current Limiting: Class J Fuse

### **Agency Approvals**

- UL, std 248-8, Class J, Guide JDDZ, File E162363
- CSA Certified, C22.2 # 248.8, Class 1422-02, File 700489
- RoHS compliant





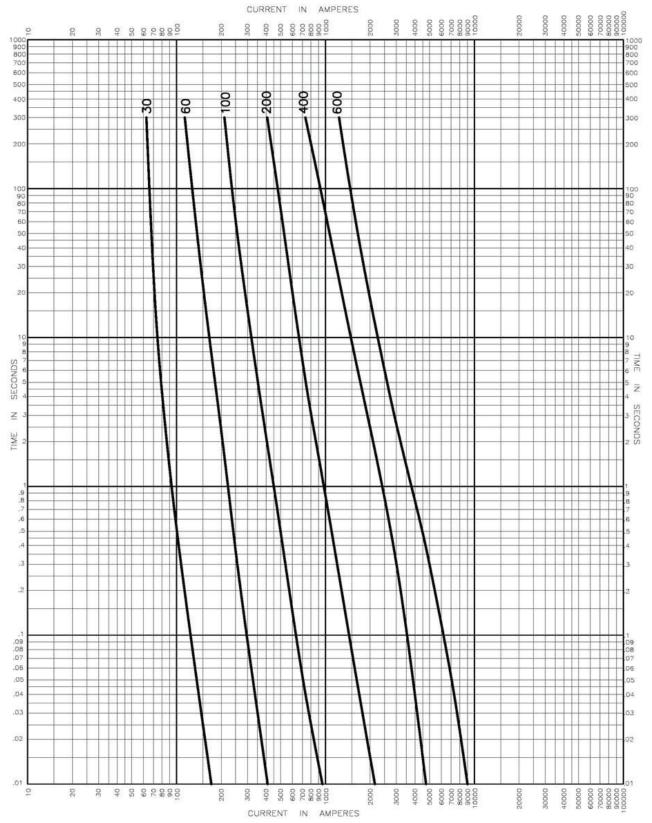
JHL Series Dimensions - Inches [mm]												
Range	A	В	C	D	Ε	F	H	J	K			
1-30	2.25 [57.2]	0.81 [20.6]	_	_	-	_	-	_	-			
35-60	2.38 [60.5]	1.06 [26.9]	_	_	-	_	-	_	-			
70-100	4.63	1.13	1.00	2.63	0.13	0.75	3.63	0.43	0.28			
	[117.6]	[28.7]	[25.4]	[66.8]	[3.3]	[19.1]	[92.2]	[10.9]	[7.1]			
110-200	5.75	1.63	1.38	3.00	0.19	1.13	4.38	0.43	0.28			
	[146.1]	[41.4]	[35.1]	[76.2]	[4.8]	[28.7]	[111.3]	[10.9]	[7.1]			
225-400	7.13	2.11	1.88	3.38	0.25	1.63	5.25	0.58	0.41			
	[181.1]	[53.6]	[47.8]	[85.9]	[6.4]	[41.4]	[133.4]	[14.7]	[10.4]			
450-600	8.00	2.50	2.13	3.75	0.38	2.00	6.00	0.74	0.53			
	[203.2]	[63.5]	[54.1]	[95.3]	[9.7]	[50.8]	[152.4]	[18.8]	[13.5]			

Circuit Protection

tCPR-189

# Class J High-Speed Drive Fuses Time-Current Characteristic Curves





#### Time-Current Characteristic Curves – Average Melt – JHL Fuses

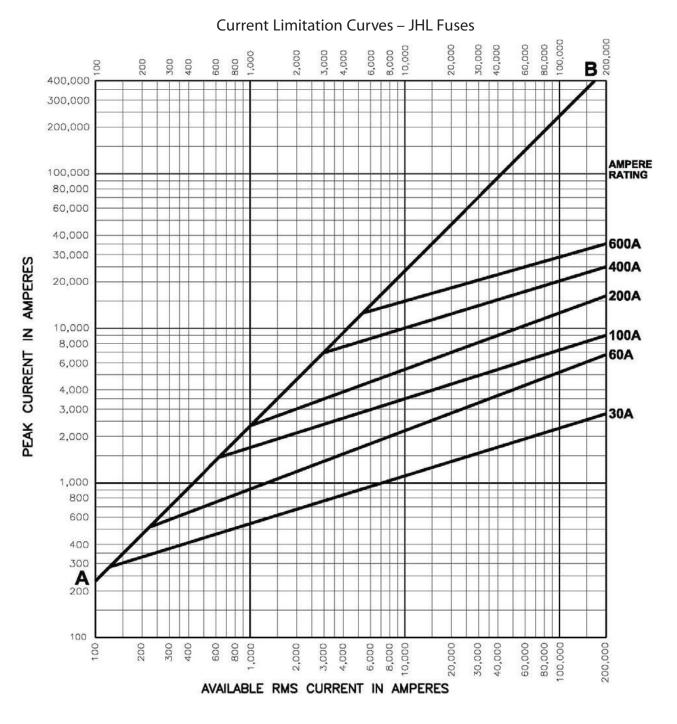
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Circuit Protection tCPF

tCPR-190

# Class J High-Speed Drive Fuses Current Limitation Curves





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**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

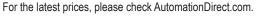
Description					(	Current Lin	niting					
Description	Class J		Class RK5		Class RK1		Class T		Class L		Class CC	
Fuse Type	Fast-Acting	Time-Delay		Time-	Delay	Delay		ast-Acting	Fast-Acting	Fast-Acting	Time	e-Delay
Part Number	JHL	JDL	ECNR	ECSR	LENRK	LESRK	TJN	TJS	LCU	HCLR	HCTR	EDCC
Voltage Rating	600VAC 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 - 60	00	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	s 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, Guide JDE E1623 CSA Certifie per C22.2, N File 53 Class 142 1422-	DZ, File 363 d HRCI-T o. 248.12, 787, 2-02 &	UL Listed, Std. 248-10 CSA Certified, HRC-L C22.2 No. 248.10, Class 1422- 02, File 53787	Guide JE CSA certified	to 248.4, ( DZ, File E I HRCI-MIS 8.4, File 7	162363, C per C22.2
Dimensions			Se	ee product	specification pa	ages.				ferrule (in): 1	13/32, lengt	:h (in): 1-1/2

\* Self-certified DC ratings

Edison Fuses Selection Guide and General Specifications															
Description	Ge	neral Pur	pose – Mid	get		General Purpose – Small Dimension Electronic									
Fuse Type	Fast-A	lcting	Time-	Delay	Fast-Acting Ceramic			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 A	mps			See sp	ecifications table	on product pag	jes					
Current Limiting		١	N/A				N/A								
Agency Approvals	UL Listed to 248.14, File E162443 CSA Cert. C22.2 Part 59.2, LR 700489			UL Listed Gui (ABC 0 (AGC 1, JDYX ar UL Recognito nos. (ABC 20-3 JDYX2 a CSA Certifica 053787 C 000	andard 248-14 de and File nos. .25-20 A): (100-10 A) nd E19180 n Guide and File 30A):(AGC 11-30) nd E19180 tion Record No: 0 and Class No: and 1422 30	UL Listed, G E19180 UL Reco JDYX2, File CSA C 05378	UL/CSA 248-14 buide JDYX, File ) 63mA-6A gnition, Guide E19180, 7A-15A ertified, File i7_C_000, Class 1422-01	UL Lis MDA 2 MDL (Guide JDY) UL Recoo MDA 25-30 (Guide JDYX CSA Certi MDA 3	andard 248-14 ted Card: 2/10-20A, 1/16-8A X, File E19180 gnized Card: IA MDL 9-30A 2, File E19180) fication Card: 2/10-15A o. 1422-01)	UL Recogni JDYX2, Fil Semko A VDE Ap BSI Ap IMQ Ap RoHS cc	e E19180 pproval proval proval proval				
								RoHS							
Dimensions	ferrule	e (in): 13/32	2 length (in)	: 1-1/2		x 1-1/4", x 32mm)		" x 0.788" x 20mm)		x 1-1/4", n x 32mm)	0.197" x (5mm x				

tCPR-185

## 1-800-633-0405 **Modular Ferrule Fuse Blocks** for Class J Fuses





### **Description**

JM Series for use with Class J fuses JHL & JDL

### Mounting

35mm DIN rail or panel mount

### **Specifications**

#### **Materials:**

Base – Thermoplastic Terminals – Tin-plated copper brass 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] AI - 75°C [167°F] Ring or Fork terminal to fit a #10-32 screw

Patented lockout / tagout

Modular dove-tail design for tool-less snap together assembly

**DIN Rail or panel mount** 

**Compact Footprint** 

#### Modular Ferrule Fuse Blocks for Class J Fuses Wire Range Torque Wt. Covers (sold separately) Pc/ fine Part Number Price Volts Amps Poles Туре solid and w/o Pc/ **w**/ pkg stranded lb∙in [N∙m] lb [kg] stranded Indication Indication<sup>1</sup> pkg (Cu) JM60030-1CR 1 \$34.00 3-2 AWG 50 [5.6] 0.15 [0.08] 1 lug 14-2 AWG (Cu) 6-4 AWG 45 [5.1] 1 2 JM60030-2CR \$71.00 0.25 [0.12] Box 8-2 AWG (AI) 8AWG 40 [4.5] JM60030-3CR 1 \$103.00 3 14-10 AWG 35 [4.0] 0.40 [0.18] CVR-J-60030 CVRI-J-60030 30 1 1 \$31.00 Pressure Plate 1 0.15 [0.08] JM60030-1PR \$10.00 \$13.00 JM60030-2PR 1 \$61.00 2 0.25 [0.12] 600V 18-10 AWG (Cu) 18-10 AWG 20 [2.3] AC/DC 1 \$93.00 3 JM60030-3PR 0.40 [0.18] JM60060-1CR \$41.00 0.20 [0.10] 1 1 3-2 AWG 50 [5.6] lug JM60060-2CR 1 \$82.00 2 14-2 AWG (Cu) 6-4 AWG 45 [5.1] 0.35 [0.16] CVR-J-60060 CVRI-J-60060 60 1 Box 40 [4.5] 8-2 AWG (AI) 8AWG \$12.00 \$13.50 JM60060-3CR 1 \$124.00 3 0.55 [0.26] 14-10 AWG 35 [4.0]

<sup>1</sup> Open fuse indication requires 90V minimum and closed circuit to operate.

### **Agency Approvals**

#### **Fuse Blocks**

- UL® Listed E14853 IZLT
- 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



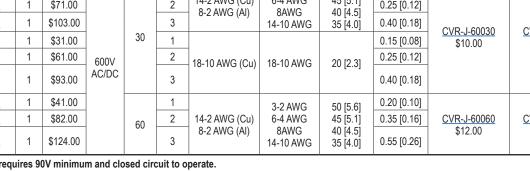
Test probe holes

Clear IP20 finger-safe cover

(sold separately)

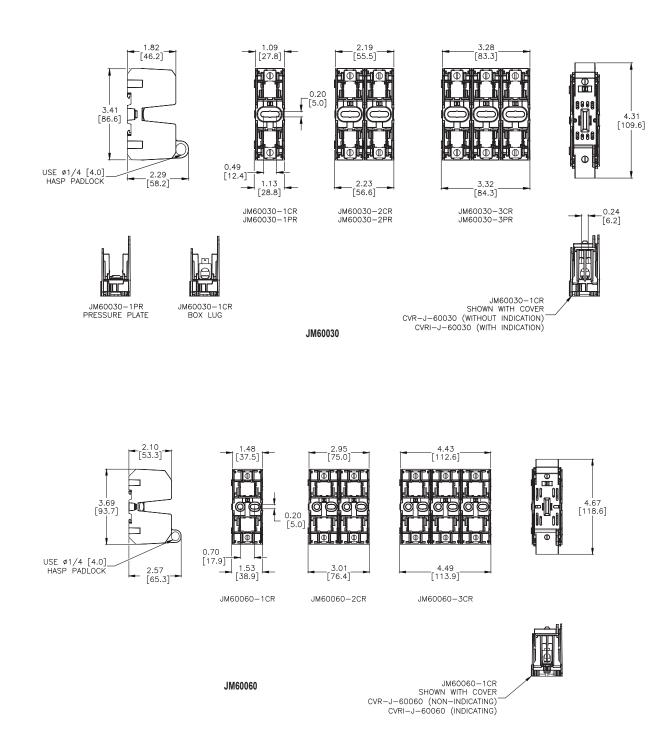
To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

Box lug



For the latest prices, please check AutomationDirect.com.

### 1-800-633-0405 **Modular Ferrule Fuse Blocks** for Class J Fuses **Dimensions** in [mm]



Please see our website www.AutomationDirect.com for complete engineering drawings. Dimensions are approximate. Not for construction purposes.

SO

## 1-800-633-0405 Modular Fuse Holders for Class J Fuses



### Description

- Choice of LED indicator or non-indicating fuse holder
- Comes in standard 1-, 2- and 3-Pole ganged assemblies where all fuses are extracted simultaneously
- Meets requirements of IEC 60529 for IP-20 finger safe rating
- 35mm DIN rail and chassis (6-32 UNC Pan Head recommended) mounting features
- Fuseholder wire ports dual wire rated from 18 to 3 AWG



### **Specifications**

**Construction:** Thermoplastic, with tin-plated copper clip UL Flammability: 94V-0

Voltage Ratings: 600 Volts AC/DC (or less)

Ampere Ratings: 1 - 60 Amps

Interrupting Rating: 200,000 RMS Symmetrical Amps

#### Minimum Indicating Voltage (neon lamp): 90 Volts

Nominal Operating Current (neon lamp): 34 mA (460 VAC)



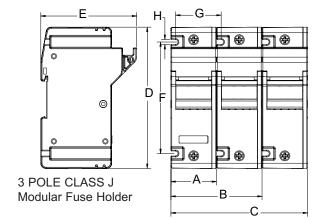
### **Agency Approvals**

- Listed UL 512, Guide IZLT, File E14853
- CSA Certified per C22.2 Nos. 39 Class 6225-01, File LR47235
- CE compliance for the European Union Low Voltage Directive

	CH Series Modular Fuse Holders for Class J Fuses												
Amp Rating	Part Number	Amps	Туре	Poles	Maximum Wire Size	Pcs/Pkg	Weight (lbs.)	Price					
	<u>CH30J1</u>		Easy ID window	1		6		\$247.00					
-	CH30J2		Easy ID window	2	-	3	2.8	\$344.00					
20.4	<u>CH30J3</u>	0.54-20	Easy ID window	3		2		\$340.00					
30A	CH30J1I	0.5 to 30	Neon indicator	1		6		\$286.00					
	<u>CH30J2I</u>		Neon indicator	2		3		\$392.00					
-	CH30J3I		Neon indicator	3	18 -1 AWG Single 18 -3 AWG Dual	2		\$373.00					
	CH60J1		Easy ID window	1	75°C	6		\$330.00					
-	CH60J2		Easy ID window	2		3	3.4	\$386.00					
604	CH60J3	21 45 60	Easy ID window	3		2		\$391.00					
60A	CH60J11	31 to 60	Neon indicator	1		6		\$369.00					
	CH60J2I	1	Neon indicator	2		3		\$459.00					
	CH60J3I	1	Neon indicator	3		2		\$420.00					

### **Dimensions**

Dimension	CH30J in (mm)	CH60J in (mm)
A	1.28 (32.5)	1.58 (40.0)
В	2.56 (65.0)	3.16 (80.0)
С	3.84 (97.5)	4.72 (120.0)
D	4.59 (116.6)	4.88 (124.0)
E	2.83 (71.8)	3.31 (84.1)
F	3.56 (90.4)	3.85 (97.9)
G	1.28 (32.5)	1.58 (40.0)
н	0.18 (4.44)	0.18 (4.44)



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### 1-800-633-0405 Accessories





Accessories												
Part Number	Description	Pcs/Pkg	Price									
<u>FP-2</u>	Fuse puller for fuse dia. 13/32" - 13/16". Fuse type: 0-60A, 250V; 0-30A, 600V	1	\$34.50									
<u>JV-L</u> * (Not Field Installable)	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.		\$13.00									

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 <u>Automationdirect.com</u>).



Handle Pin Dimensions Diameter = 0.0625 in [1.58 mm] Length = 0.632 in [16.07 mm] R JV-L 0 1

### 1-800-633-0405 Cross Reference Guide



CROSS REFERENCE GUIDE By manufacturers type reference or series number. Ampere ratings must be added for ordering purposes.												
FUS	Е ТҮРЕ	VOLT	EDISON	BRUSH/ DORMAN	BUSSMANN	MERSEN / GOULD	GEC/CEFCO	LITTELFUSE				
		UL C	CLASS CURREI	NT LIMITING FU	SES (CSA CLAS	SS)						
	Time-Delay	600	EDCC	_	LP-CC	ATDR	_	CCMR				
CC (HRCI-CC)	Time-Delay	600	HCTR	_	FNQ-R	ATQR	_	KLDR				
	Fast-Acting	600	HCLR	HCLR	KTK-R	ATMR	CTK-R	KLKR				
RK1	Time-Delay Dual	250	LENRK	_	LPN-RK-SP	A2DR	_	LLNRK				
RNI	Element	600	LESRK	_	LPS-RK-SP	A6DR	_	LLSRK				
RK5	Time-Delay Dual	250	ECNR	_	FRN-R	TR	_	FLNR				
KNJ	Element	600	ECSR	_	FRS-R	TRS	_	FLSR				
,	Time-Delay Dual Element	600	JDL	-	LPJ	AJT	_	JTD				
J	High-Speed AC Drive	600	JHL	-	DFJ	HSJ	_	_				
Т	Extremely Fast- Acting	300	TJN	_	JJN	A3T	_	JLLN				
I		600	TJS	_	JJS	A6T	_	JLLS				
			UL CLASS G	ENERAL PURP	OSE FUSES							
	Fast-Acting	600	MCL	MCL	KTK	ATM	CTK	KLK				
Midaat		250	MOL	MOL	BAF/BAN	OTM	_	BLF				
Midget		500	MEQ	MEQ	FNQ	ATQ	_	FLQ				
	Time-Delay	250	MEN	MEN	FNM	TRM	_	FLM				
1/4"x 1-1/4" Ceramic	Fast-Acting	250/125	ABC	ABC	ABC	GAB	_	314				
1/4"x 1-1/4" Glass	-	250/32	AGC	AGC	AGC	GGC	_	312				
1/4"x 1-1/4" Ceramic	Time-Delay	250	MDA	MDA	MDA	-	_	326				
1/4"x 1-1/4" Glass		250/32	MDL	MDL	MDL	GDL	_	313				
Ex20 mm Olas	Fast-Acting	250/125	GMA	GMA	GMA	GGM	_	235				
5x20 mm Glass	Medium Time-Delay	250/125	GMC	GMC	GMC	GSC	_	_				
5x20 mm Glass	Fast-Acting	250	S500	BDB	GDB	GSB	_	217				
JAZU IIIIII GIASS	Time-Delay	250	S506	BDC	GDC	GDG	_	218				
				Fuse Puller								
Fuse Puller FP-2 old - 38072 new - FP-2 - FP-2 - - - -												