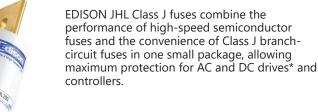
Class J High-Speed Drive Fuses

JHL Series Class J High-Speed Drive Fuses









Part

Number

JHL1-1

JHL2-1

JHL3-1

JHL4-1

JHL5-1

JHL6-1

JHL8-1

JHL10-1

JHL12-1

JHL15-1

JHL20-1 JHL25-1

JHL30-1

JHL35-1

JHL40-1

JHL45-1

JHL50-1

JHL60-1

JHL17P5-1

* 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).

Pkg

Weight

(lb[kg])

0.10

[0.05]

0.16

[0.07]

Price

\$29.50 \$29.50

\$29.50

\$31.00

\$29.50

\$29.50

\$31.00

\$29.50

\$31.00

\$29.50

\$28.00

\$29.50

\$29.50

Pcs/

Pkg

1

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 I2t 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

Part Number	AMP Rating	Voltage (max)	Pcs/ Pkg	Weight (lb[kg])	Price
JHL1	1				\$218.00
JHL2	2				\$235.00
JHL3	3				\$218.00
JHL4	4				\$246.00
JHL5	5				\$235.00
JHL6	6				\$235.00
JHL8	8			1.0	\$249.00
JHL10	10			[0.45]	\$235.00
JHL12	12				\$249.00
<u>JHL15</u>	15		10		\$237.00
<u>JHL17P5</u>	17.5				\$242.00
JHL20	20				\$237.00
JHL25	25				\$237.00
JHL30	30				\$237.00
JHL35	35				\$405.00
JHL40	40			4.5	\$405.00
JHL45	45			1.5 [0.68]	\$405.00
JHL50	50	600 VAC			\$405.00
JHL60	60	450 VDC			\$405.00
JHL70	70				\$82.00
JHL80	80			0.30	\$82.00
JHL90	90			[0.14]	\$87.00
<u>JHL100</u>	100				\$82.00
<u>JHL110</u>	110			0.70 [0.32]	\$159.00
<u>JHL125</u>	125				\$166.00
<u>JHL150</u>	150			0.8	\$166.00
<u>JHL175</u>	175			[0.36]	\$163.00
<u>JHL200</u>	200		1		\$166.00
<u>JHL225</u>	225	_			\$282.00
<u>JHL250</u>	250			1.6	\$255.00
JHL300	300			1.6 [0.73]	\$255.00
<u>JHL350</u>	350				\$265.00
<u>JHL400</u>	400]			\$255.00
JHL450	450]		0.0	\$387.00

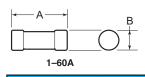
70 - 600 A

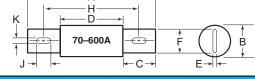
Pkg

Rated

\$29.50	CR	oss	REF	EREN	CE
\$46.50	2	E	В	37	11
\$46.50	NOLTS	EDISON	OOP	FERRAZ , MERSEN	ПЕ
\$46.50	",	×	COOPER / BUSSMANN	AZ/ EN	LITTELFUSE
\$46.50			N		3£
\$50.00	600	JHL	DFJ	HSJ	-

JHL Dimensions





	JHL Series Dimensions - Inches [mm]												
Range	A	В	С	D	Ε	F	Н	J	K				
1-30	2.25 [57.2]	0.81 [20.6]	ı	-	_	_	_	ı	_				
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]				

500

600

JHL500

JHL600

2.6

[1.18]

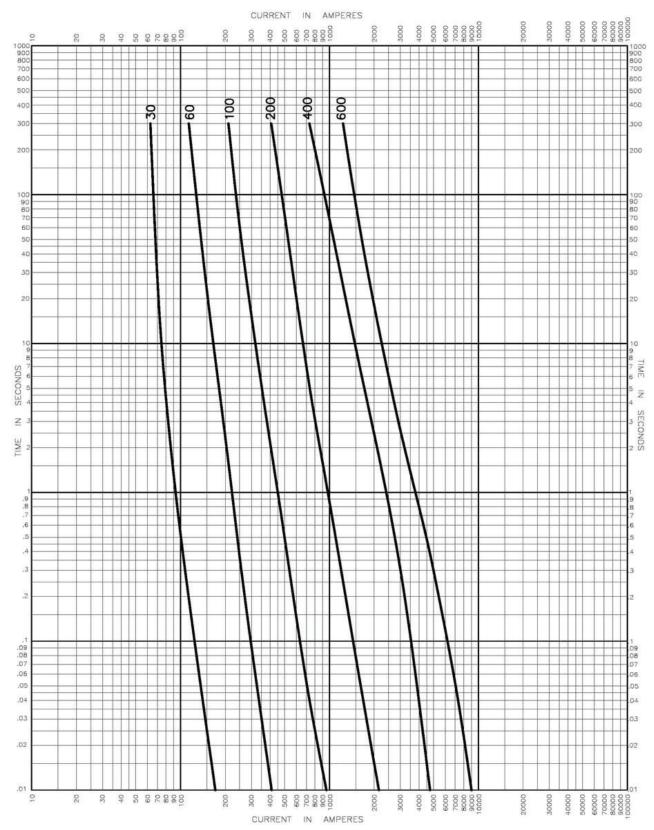
\$400.00

\$391.00

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



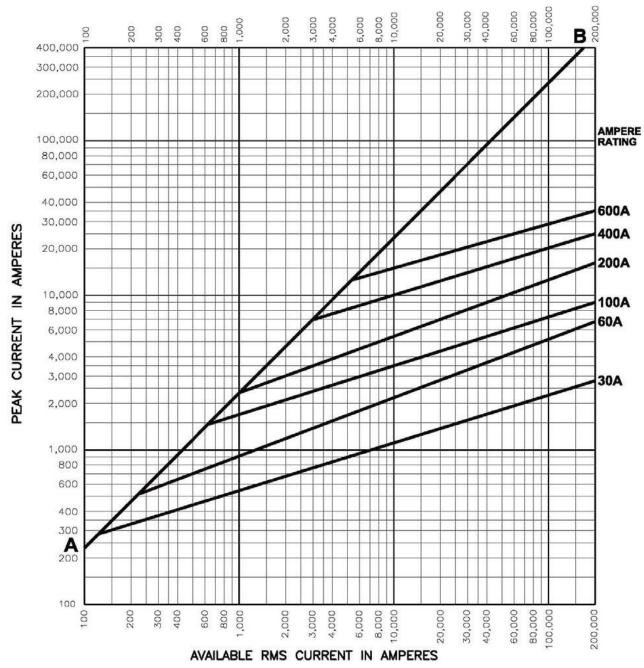
Time-Current Characteristic Curves – Average Melt – JHL Fuses



Class J High-Speed Drive Fuses Current Limitation Curves









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).

		Ediso	n Fuses	Selecti	on Guide	e and (General S	Specific	cations				
Description	Current Limiting												
Description	Class	J	Class RK5 Class RK1		RK1	Class	: <i>T</i>	Class L		Class CC			
Fuse Type	Fast-Acting	Time-Delay		Time-	Delay		Extremely Fa	st-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	1 - 600 3 - 600 10 - 600 5 - 600			1 - 60	00	601 - 1200	0.5 - 30	0.25 - 30	0.5 - 30	
Interrupting Rating	200,000 RMS Symmetrical Amps												
Current Limiting	Class	; J	Class F	RK5	Class F	Class RK1 Class T Class			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	CSA Certifie	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, Class T, Guide JDDZ, File E162363 CSA Certified HRCI-T per C22.2, No. 248.10, Class 1422-02 & 1422-82 UL Listed, Class T, Guide JDDZ, File S162363 CSA Certified HRCI-T per C22.2, No. 248.10, Class 1422-02, File S3787					UL Listed to 248.4, Class CC, Guide JDDZ, File E162363, CSA certified HRCI-MISC per C22.2 No. 248.4, File 700489				
Dimensions			Se	ee product	specification pa	ages.				ferrule (in): 1	3/32, lengt	h (in): 1-1/2	

^{*} Self-certified DC ratings

			Ediso	n Fus	es Select	ion Guide	and Gen	eral Spec	fication	S				
Description	Gei	neral Pur _l	pose – Mid	get	General Purpose – Small Dimension Electronic									
Fuse Type	Fast-A	Fast-Acting Time-Delay		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	\$500	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 10,000 RMS Amps Amps			mps	See specifications table on product pages									
Current Limiting		١	N/A				N/A							
Agency Approvals					UL Listed Gui (ABC 0. (AGC 1/ JDYX ar UL Recognition nos. (ABC 20-3 JDYX2 a CSA Certifica 053787 C 000	andard 248-14 de and File nos. .25-20 A): '100-10 A) of E19180 in Guide and File 80A):(AGC 11-30) ind E19180 tion Record No: 0 and Class No: and 1422 30	UL Listed, C E19180 UL Reco JDYX2, File CSA C 05378	UL/CSA 248-14 Juide JDYX, File 0 63mA-6A gnition, Guide E19180, 7A-15A ertified, File 17_C_000, Class 1422-01	UL Lis MDA 2 MDL (Guide JDY UL Recoo MDA 25-30 (Guide JDYX CSA Certir MDA 25-30	andard 248-14 ted Card: 2/10-20A, 1/16-8A X, 1/16-8D, 3, rile E19180 3, rile E19180, 1, File E19180, 1, File E19180, 1, File E19180, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	UL Recognized Guide JDYX2, File E19180 Semko Approval VDE Approval BSI Approval IMQ Approval RoHS compliant			
					4/4"	4.4/42	0.40	RoHS	4 / 4 ?	4 4 (4"	0.407"	0.700"		
Dimensions	ferrule	(in): 13/32	2 length (in)	: 1-1/2		x 1-1/4", x 32mm)		" x 0.788" ı x 20mm)		x 1-1/4", n x 32mm)	0.197" x (5mm x			

www.automationdirect.com Circuit Protection tCPR-190

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

Agency Approvals

Fuse Blocks

- UL® Listed E14853 IZLT
- CSA® Certified 47235-6225-01
- RoHS Compliant
- · Conflict mineral free
- REACH Compliant

- 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.

Operating and storage temp range: Blocks - -40° to 120°C [-40° to 248°F] Covers – indicating -20° to 90°C [-4° to 194°F] Clear IP20 finger-safe cover non-indicating -40° to 120°C [-40° to 248°F] (sold separately) 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 Test probe holes **DIN Rail or panel mount** Box lua **Compact Footprint**

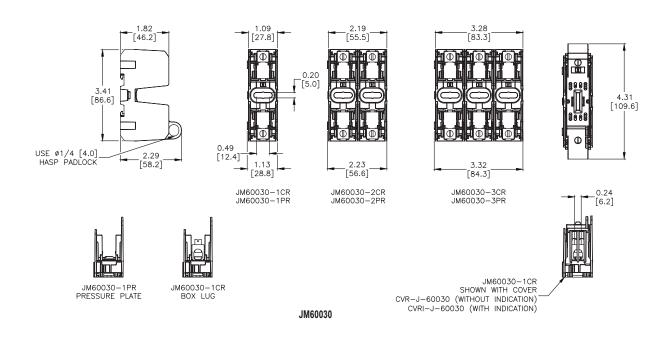
				Mo	dula	Feri	ule Fuse B	locks for	Class J	Fuses								
							Wire Ra	ange	Torque	Wt.	Covers (s	sold separately)						
Туре	Part Number	Pc/ pkg	Price	Volts	Amps	Poles	solid and stranded	fine stranded (Cu)	lb∙in [N·m]	lb [kg]	w/o Indication	w/ Indication¹	Pc/ pkg					
lug	JM60030-1CR	1	\$34.00			1		3-2 AWG	50 [5.6]	0.15 [0.08]								
1 × 1	JM60030-2CR	1	\$71.00			2	2 14-2 AWG (Cu) 8-2 AWG (AI)	\ /	\ /	\ /	\ / /	\ /	6-4 AWG 8AWG	45 [5.1] 40 [4.5]	0.25 [0.12]			
Вох	<u>JM60030-3CR</u>	1	\$103.00			3		14-10 AWG		0.40 [0.18]	CVR-J-60030 \$10.00	<u>CVRI-J-60030</u> \$13.00	1					
é	JM60030-1PR	1	\$31.00		30	1				0.15 [0.08]								
essur	JM60030-2PR	1	\$61.00	600V		2	18-10 AWG (Cu)	18-10 AWG	20 [2.3]	0.25 [0.12]								
Pressure Plate	JM60030-3PR	1	\$93.00	AC/DC		3	10-10 AVVG (Cu)	10-10 AWO	20 [2.0]	0.40 [0.18]								
9	JM60060-1CR	1	\$41.00			1		3-2 AWG	50 [5.6]	0.20 [0.10]	CVR-J-60060							
c lug	JM60060-2CR	1	\$82.00		60	2	14-2 AWG (Cu)	6-4 AWG	45 [5.1]	0.35 [0.16]		CVRI-J-60060	1					
Вох	<u>JM60060-3CR</u>	1	\$124.00		30	3	8-2 AWG (AI)	8AWG 14-10 AWG	40 [4.5] 35 [4.0]	0.55 [0.26]	\$12.00	\$13.50	'					

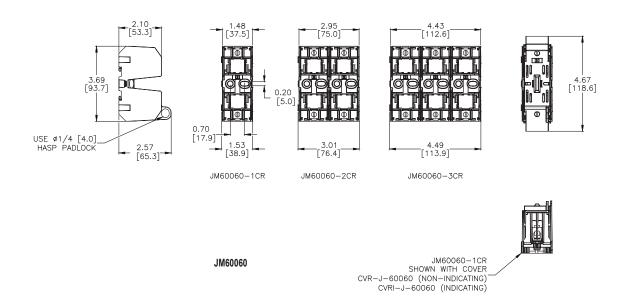
¹ Open fuse indication requires 90V minimum and closed circuit to operate.

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.

Modular Fuse Holders for Class J Fuses









CH30J3

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 Patings: 600 Volta AC/DC

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)

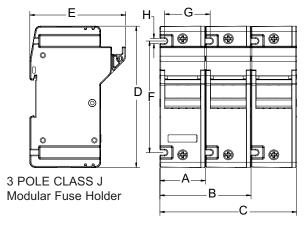
Agency Approvals

- 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				
	<u>CH30J2</u>		Easy ID window	2	18 -1 AWG Single 18 -3 AWG Dual	3		\$344.00				
30A	<u>CH30J3</u>	0.5 to 30	Easy ID window	3		2	20	\$340.00				
JUA	CH30J1I		Neon indicator	1		6	2.8	\$286.00				
	CH30J2I		Neon indicator	2		3		\$392.00				
	<u>CH30J3I</u>		Neon indicator	3		2		\$373.00				
	CH60J1		Easy ID window	1	75°C	6	3.4	\$330.00				
	CH60J2		Easy ID window	2		3		\$386.00				
60A	CH60J3	21 to 60	Easy ID window	3		2		\$391.00				
DUA	CH60J1I	31 to 60	Neon indicator	1		6		\$369.00				
	CH60J2I		Neon indicator	2		3		\$459.00				
	CH60J3I		Neon indicator	3		2		\$420.00				

Dimensions

Dimension	CH30J in (mm)	CH60J in (mm)
Α	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)



Accessories

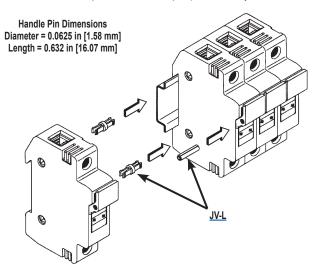




	Accessories										
Part Number	Description	Pcs/Pkg	Price								
<u>FP-2</u>	Fuse puller for fuse dia. 13/32" - 13/16". Fuse type: 0-60A, 250V; 0-30A, 600V	1	\$34.50								
JV-L* (Not Field Installable)	Multi-pole connection kit to connect new design multiple Class CC and Midget Class fuse holders 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>).





Cross Reference Guide



C	ROSS REFEREN Amp				type refere or ordering p		s number.		
FUS	Е ТҮРЕ	VOLT	EDISON	BRUSH/ DORMAN	BUSSMANN	MERSEN / GOULD	GEC/CEFCO	LITTELFUSE	
		UL (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	
KKI	Element	600	LESRK	_	LPS-RK-SP	A6DR	_	LLSRK	
RK5	Time-Delay Dual	250	ECNR	_	FRN-R	TR	-	FLNR	
MO	Element	600	ECSR	_	FRS-R	TRS	_	FLSR	
J	Time-Delay Dual Element	600	JDL	_	LPJ	AJT	_	JTD	
	High-Speed AC Drive	600	JHL	_	DFJ	HSJ	-	_	
Т	Extremely Fast-	300	TJN	_	JJN	A3T	_	JLLN	
1	Acting	600	TJS	_	JJS	A6T	_	JLLS	
			UL CLASS G	ENERAL PURP	OSE FUSES				
	Fast-Acting	600	MCL	MCL	KTK	ATM	CTK	KLK	
Midaet	rast-Acting	250	MOL	MOL	BAF/BAN	OTM	_	BLF	
Midget	Time-Delay	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	
Fix20 mans Ols -	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	_	_	_	