For the latest prices, please check AutomationDirect.com.

1-800-633-0405 **Class L Fast-Acting Current Limiting Fuses**

Edison LCU UL Class L fuses are particularly suited for protection of circuit breakers with lower interrupting ratings and non-inductive loads such as lighting and heating circuits. 99% pure silver links provide low watt loss and low operating temperature at normal current levels.



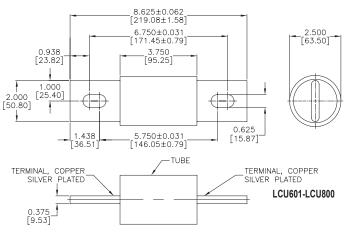
- Circuit breakers
- Drive protection
- Meets UL, NEC and CSA requirements for branch and feeder protection

Class L Features

- Fast-acting, short circuit protection
- · Allows low I2t let-through energy of any branch circuit overcurrent protective device
- High grade silica-sand filler accelerates response of fuse to short circuits by having a quenching effect upon the fuse arc
- O-ring seals maximize pressure build-up during current limiting actions and ensure filler retention.
- · Silver-plated micro-peened terminals provide high electrical conductivity, minimize heat generation, and keep fuses and switches cool.
- Selective coordination (blackout prevention)
- · Glass melamine tube
- · Silver-plated end bells
- No fuse reducers required.

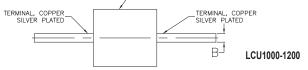
Cross Reference								
Edison	Bussmann	Mersen	Littelfuse					
LCU	KTU	A4BY	LDC					

Dimensions in [mm]



±.016 [±0.39] ON ALL DIMENSIONS NOT OTHERWISE MARKED

10.750±0.062 [270:00±1:00] 6.750±0.031 [171.45±0.79] 1 375 [34.92] _ 3.750 [95.25] \oplus \oplus \square 5.750±0.031 [146.05±0.79] 1.750 -TUBE



±.016 [±0.39] ON ALL DIMENSIONS NOT OTHERWISE MARKED

Dimensions							
Amp	A	B	C				
1000- 1200	2-25/64	3/8	2				



Specifications

Voltage Rating: 600 VAC (or less)

Ampere Rating: 601-1200 Amps

Interrupting Rating:

200,000 RMS Symmetrical Amps;

Current Limiting: Class L Fuse

Mounting: Bolt mount

Note: Fuse blocks not sold by AutomationDirect.com

Agency Approvals

- UL Listed, Std. 248-10, E162363, JDDZ
- CSA Certified, HRC-L C22.2 No. 248.10, Class 1422-02, File 53787
- RoHS compliant, CE, Reach

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

LCU Series Class L Fast-Acting Fuses										
Part Number	AMP Rating	Rated Voltage (max)	Pcs/ Pkg	Weight Ib [kg]	Price					
LCU601	601				\$782.00					
<u>LCU650</u>	650		1	3.64 [1.65]	\$932.00					
LCU700	700	600VAC			\$782.00					
LCU800	800				\$738.00					
<u>LCU1000</u>	1000			4.04	\$738.00					
LCU1200	1200			[1.82]	\$738.00					

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

tCPR-202

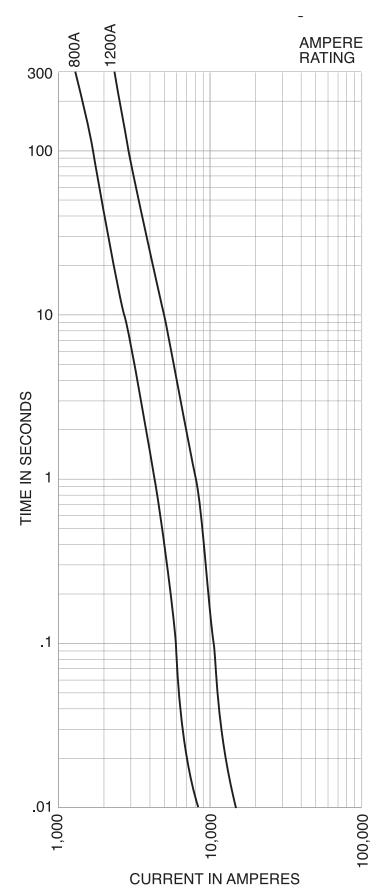
0.625



LCU601

LCU1200

For the latest prices, please check AutomationDirect.com. 1-800-633-0405 Class L Fast-Acting Fuses Time-Current Characteristic Curves



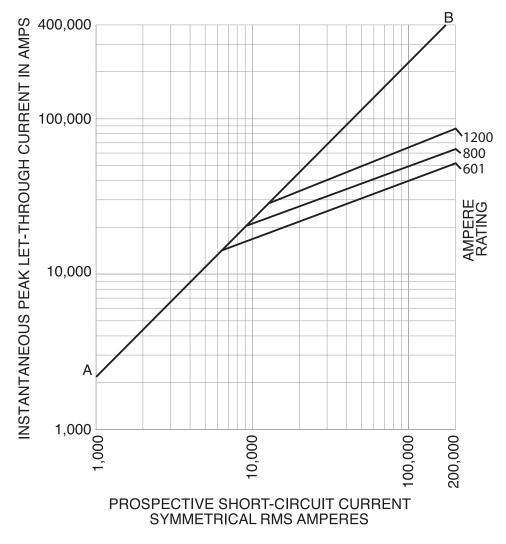
Note: See website for interpolation method document to address the correct method in which to interpolate the fuse curve that does not appear on the chart (601, 650, 700).



www.automationdirect.com

Class L Fast-Acting Fuses Current Limitation Curves





How to Use the Let-Through Charts

Using the example given, one can determine the pertinent let-through data for the LCU800 amp fuse. The Let-Through Chart pertaining to the 800A fuse is illustrated.

Determine the PEAK let-through CURRENT.

Step 1. Enter the chart on the Prospective Short-Circuit current scale at 100,000 amps and proceed vertically until the 800A fuse curve is intersected.

Step 2. Follow horizontally until the Instantaneous Peak Let-Through Current scale is intersected.

Step 3. Read the PEAK let-through CURRENT as 50,000A. (If a fuse had not been used, the peak current would have been 200,000A.)

UL Class L bolt-on fuses rated 601 to 1200A: Mounting

To mount UL Class L fuse, use stainless steel bolts of correct number, diameter and length, stainless steel spring washers on each side of the bolt and stainless steel nuts. The nuts shall be tightened to the torque recommended by ASTM Standards for the bolt size used. The bolts shall have the largest diameter that will fit the bolt holes and length to allow full nut thread engagement. Bolts shall be installed in each fuse mounting hole or slot.



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	Class RK1		Class T		Class CC		
Fuse Type	Fast-Acting	Time-Delay		Time-	Delay		Extremely Fa	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 Symr	metrical Amps					
Current Limiting	Class	s J	Class F	RK5	Class F	RK1	Class	зT	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) CListed, Class 1, Guide JDDZ, File CSA Certified HRCI-T per C22.2, No. 248.12, File 53787, Class 1422-02 & 02, 1402 82					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	Fact_Acting 1,1200		Fast-Acting Glass		Fast-Acting 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 specifications table on product pages									
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			(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 Cottification Beard No: 053			Designed to UL/CSA 248-14 JL Listed, Guide JDYX, File E19180 63mA-6A UL Recognition, Guide DYX2, File E19180, 7A-15A CSA Certified, File DEST2 C 000		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)		zed Guide e E19180 ,pproval proval proval proval mpliant			
								RoHS						
Dimensions	ferrule	e (in): 13/32	2 length (in)	: 1-1/2		x 1-1/4", x 32mm)		" x 0.788" x 20mm)	1/4" x 1-1/4", (6.3mm x 32mm)		0.197" x 0.788" (5mm x 20mm)			

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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.										
FUSE TYPE		VOLT	EDISON	BRUSH/ DORMAN	BUSSMANN	MERSEN / GOULD	GEC/CEFCO	LITTELFUSE		
		UL CLA	SS CURRENT I	IMITING FUSE	S (CSA CLASS)					
	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		
DK4	Time-Delay Dual	250	LENRK	_	LPN-RK-SP	A2DR	-	LLNRK		
RK1	Element	600	LESRK	_	LPS-RK-SP	A6DR	-	LLSRK		
DV/	Time-Delay Dual	250	ECNR	_	FRN-R	TR	-	FLNR		
RK5	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	_	-		
-	Extremely Fast- Acting	300	TJN	-	JJN	A3T	-	JLLN		
т		600	TJS	_	JJS	A6T	-	JLLS		
L	Fast-Acting	600	LCU	LCU	KTU	A4BY	CL, CLU	LDC		
		L	IL CLASS GEN	ERAL PURPOS	E FUSES					
	Fast-Acting	600	MCL	MCL	KTK	ATM	СТК	KLK		
14: day = 4		250	MOL	MOL	BAF/BAN	OTM	-	BLF		
Midget	Time-Delay	500	MEQ	MEQ	FNQ	ATQ	-	FLQ		
		250	MEN	MEN	FNM	TRM	-	FLM		
1/4"x1/4" Ceramic	Fast-Acting	250/125	ABC	ABC	ABC	GAB	-	314		
1/4"x1/4"Glass		250/32	AGC	AGC	AGC	GGC	_	312		
1/4"x1/4" Ceramic	Time-Delay	250	MDA	MDA	MDA	-	-	326		
1/4"x1/4"Glass		250/32	MDL	MDL	MDL	GDL	_	313		
5x20 mm	Fast-Acting	250/125	GMA	GMA	GMA	GGM	-	235		
Glass	Medium Time-Delay	250/125	GMC	GMC	GMC	GSC	-	_		
5x20 mm	Fast-Acting	250	S500	BDB	GDB	GSB	_	217		
Glass	Time-Delay	250	S506	BDC	GDC	GDG	_	218		
			Fu	use Puller						
Fuse Puller FP-	2	-	old - 38072 new - FP-2	_	FP-2	-	_	-		

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	\$40.00						
<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.		\$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 <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 CLASS CURRENT LIMITING FUSES (CSA CLASS)											
	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			
DKE	Time-Delay Dual	250	ECNR	_	FRN-R	TR	_	FLNR			
RK5	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	Time-Delay	500	MEQ	MEQ	FNQ	ATQ	_	FLQ			
		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	-	-	_			