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.





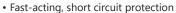
LCU601

LCU1200

Applications

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

Class L Features



- 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
- 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 Littelfu							
LCU	KTU	A4BY	LDC				

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

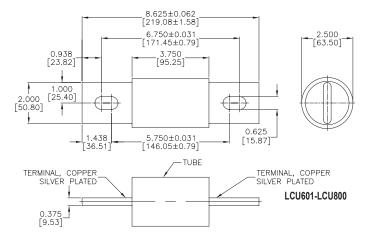
To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

Cross Reference									
Edison	Bussmann	Mersen	Littelfuse						
LCU	KTU	A4BY	LDC						

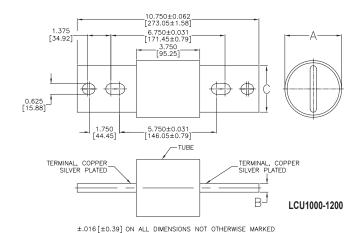
LCU Series Class L Fast-Acting Fuses Rated Voltage Weiaht **AMP** Pcs/ Part Number Price Ib [kg] Rating (max) Pkg LCU601 601 \$678.00 LCU650 650 \$808.00 3.64 [1.65] LCU700 700 \$678.00 600VAC LCU800 800 \$640.00 LCU1000 1000 \$640.00 4.04 [1.82] LCU1200 1200 \$640.00

Dimensions

in [mm]



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

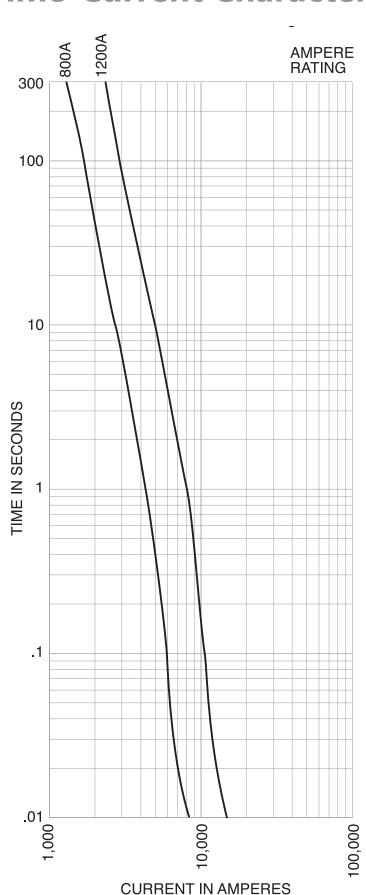


Dimensions Α C В **Amp** 1000-2-25/64 2 1200

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

Class L Fast-Acting Fuses Time-Current Characteristic Curves

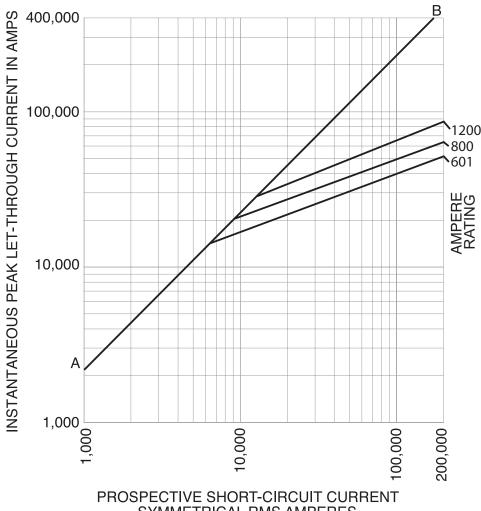




Note: See website for interpolation method document to address the correct method in which to interpolate the fuse curve that does not appear on the chart (601, 650, 700).

Class L Fast-Acting Fuses Current Limitation Curves





SYMMETRICAL RMS AMPERES

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 RK1 Class T 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 - 600 601 - 1200				0.5 - 30	0.25 - 30	0.5 - 30		
Interrupting Rating					200,000	RMS Symr	metrical Amps					
Current Limiting	Class	; J	Class F	RK5	Class F	RK1	Class	Τ	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 & No. 248.10, Class 1422-02 & 02, File 53787						Guide JE CSA certified	to 248.4, (DZ, File E HRCI-MIS 8.4, File 7	162363, C per C22.2
Dimensions			Se	ee product	specification pa	ages.				ferrule (in): 1	3/32, lengt	th (in): 1-1/2

^{*} Self-certified DC ratings

	Edison Fuses Selection Guide and General Specifications												
Description	General Purpose – Midget General Purpose – Sma								imension Ele	ctronic			
Fuse Type	Fast-A	cting	Time-	Delay	Fast-Acting Ceramic Fast-Acting C		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	\$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 Amps	10,	000 RMS A	mps	See specifications table on product pages								
Current Limiting		١	N/A		N/A								
Agency Approvals			3.14, File E1 art 59.2, LF		UL Listed Gui (ABC 0 (AGC 1, JDYX an UL Recognitio 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 80A):(AGC 11-30) ind E19180 tion Record No: 0 and Class No: and 1422 30	UL Listed, G E1918 UL Reco JDYX2, File CSA C 05378	UL/CSA 248-14 Guide JDYX, File O 63mA-6A gnition, Guide E19180, 7A-15A ertified, File 67_C_000, Class 1422-01	UL Lis MDA 2 MDL (Guide JDY UL Reco MDA 25-30 (Guide JDYX CSA Certi MDA	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 co	e E19180 approval proval proval proval	
								RoHS					
Dimensions	ferrule	(in): 13/32	2 length (in)	: 1-1/2		(1-1/4", n 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-185

Cross Reference Guide



	CROSS REFER				/pe reference ordering pu		number.	
FUSE TYPE	All	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
DICA	Time-Delay Dual	250	LENRK	_	LPN-RK-SP	A2DR	_	LLNRK
RK1	Element	600	LESRK	_	LPS-RK-SP	A6DR	_	LLSRK
DICE	Time-Delay Dual	250	ECNR	_	FRN-R	TR	_	FLNR
RK5	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	-	_
T	Extremely Fast- Acting	300	TJN	-	JJN	A3T	-	JLLN
Τ		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	CTK	KLK
Midad	rast-Acting	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
			F	ise Puller				
Fuse Puller FP-	2	-	old - 38072 new - FP-2	-	FP-2	-	_	_

www.automationdirect.com

Accessories

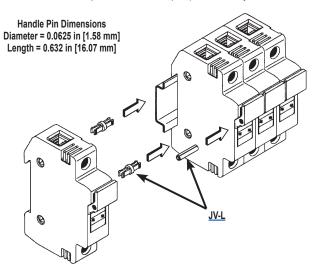




Accessories								
Part Number	Description	Pcs/Pkg	Price					
<u>FP-2</u>	Fuse puller for fuse dia. 13/32" - 13/16". Fuse type: 0-60A, 250V; 0-30A, 600V	1	\$34.50					
JV-L* (Not Field Installable)	Multi-pole connection kit to connect new design multiple Class CC and Midget Class fuse holders together. 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		es number.	
FUS	Е ТҮРЕ	VOLT	EDISON	BRUSH/ DORMAN	BUSSMANN	MERSEN / GOULD	GEC/CEFCO	LITTELFUSE
		UL (CLASS CURREI	NT LIMITING FU	SES (CSA CLAS	S)		
	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
KNO	Element	600	ECSR	_	FRS-R	TRS	_	FLSR
J	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
1		600	TJS	_	JJS	A6T	_	JLLS
			UL CLASS G	ENERAL PURP	OSE FUSES			
	Fast-Acting	600	MCL	MCL	KTK	ATM	CTK	KLK
Midaet		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
520 mar: 0/	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
5x20 mm Giass	Time-Delay	250	S506	BDC	GDC	GDG	_	218
				Fuse Puller				
Fuse Puller FP-2	old., 38072							

www.automationdirect.com Cir