



Catalog symbols

ECNR 1-600 A, 250 Vac or Less

ECSR 1-600 A, 600 Vac or Less

Specifications

- RK5 current limiting, dual-element, time-delay fuses

Ratings

- Volts
 - ECNR - 250 Vac
 - ECNR - 125 Vdc (1-60 A, 110-200 A), 250 Vdc (225-600 A)
 - ECSR - 600 Vac
 - ECSR - 300 Vdc (1-30 A, 70-600 A), 250 Vdc (35-60 A)
- Amps 1-600 A
- Interrupting Rating
 - 200 kA RMS Sym.
 - 20 kA DC

Agency Information

- UL Listed for US and Canada, Class RK5, File E162363, Guide JDDZ

Amp Ratings					
ECNR					
1	8	25	70	150	400
2	9	30	75	175	450
3	10	35	80	200	500
4	12	40	90	225	600
5	15	45	100	250	—
6	17.5	50	110	300	—
7	20	60	125	350	—
ECSR					
1	8	25	70	150	400
2	9	30	75	175	450
3	10	35	80	200	500
4	12	40	90	225	600
5	15	45	100	250	—
6	17.5	50	110	300	—
7	20	60	125	350	—

Benefits

- True dual-element construction allows sizing of 125% FLA for motor backup protection.
- Superior overload and cycling capabilities.
- Current limitation provides component short-circuit protection.

Applications

- Recommended for AC power distribution system mains, feeders, and branch circuits.
- Protection of motors and motor branch circuits.
- Protection of transformers and other inductive loads.
- All general-purpose applications including lighting, heating and other non-inductive loads.

Recommended fuse upgrade

- Class RK1 (LENRK/LESRK) for greater degree of short-circuit protection.

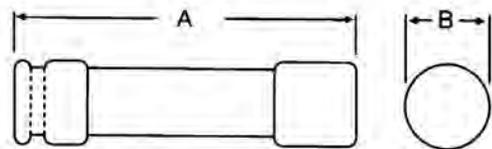
Cross reference			
Volts	Edison	Mersen	Littelfuse
250	ECNR	TR	FLNR
600	ECSR	TRS	FLSR

ECNR/ECSR dual element, time-delay fuses

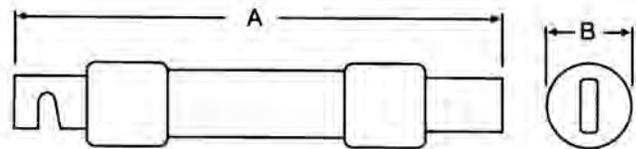
These fuses are recommended for AC power distribution system mains, feeders and branch circuits having inductive loads (motors, transformers) or non-inductive loads (lighting, heating) where the available short-circuit current does not exceed 200 kA RMS Sym. These “dual-element, time-delay” fuses have minimum industry standard time-delay of 10 seconds at 5 times the fuse rating (8 sec. minimum for 250 V, 30 A and less). The time-delay characteristics of these fuses typically allows them to be sized closer to the running amps of inductive loads to reduce cost and provide improved overcurrent protection. These fuses will override normal equipment current surges to reduce unnecessary fuse openings. They are the most popular fuses used in the industry and the most economical for most applications, especially motors and transformers. They have moderate current limitation.

- Class R fuses will fit Class H, K and R fuse clips.
- Class R fuse clips will only accept Class R fuses.
- Fuses rated 600 Vac or less may be applied at any lower voltage.

Dimensions – in



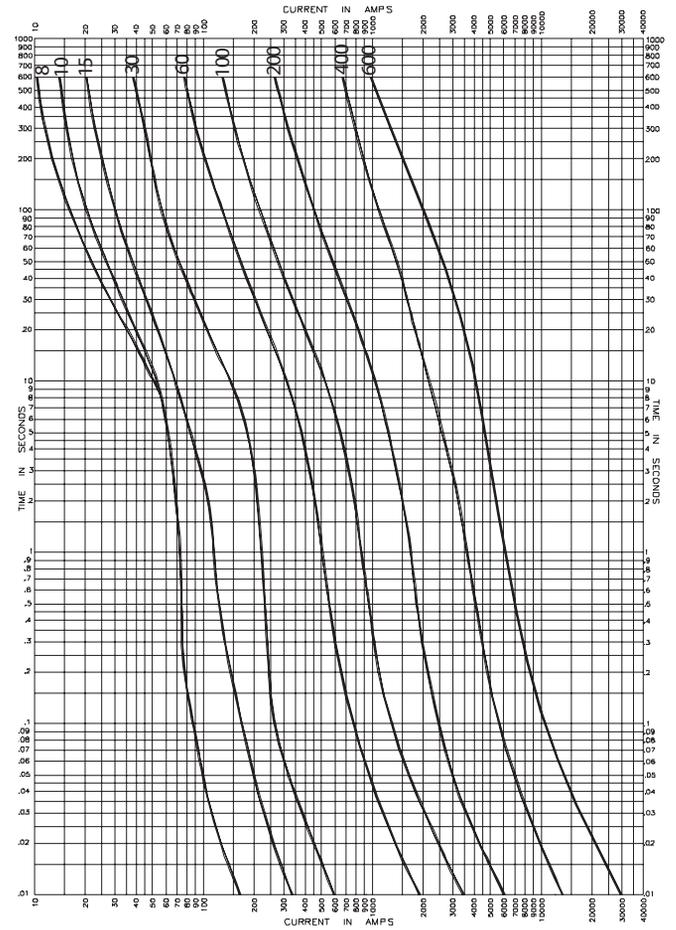
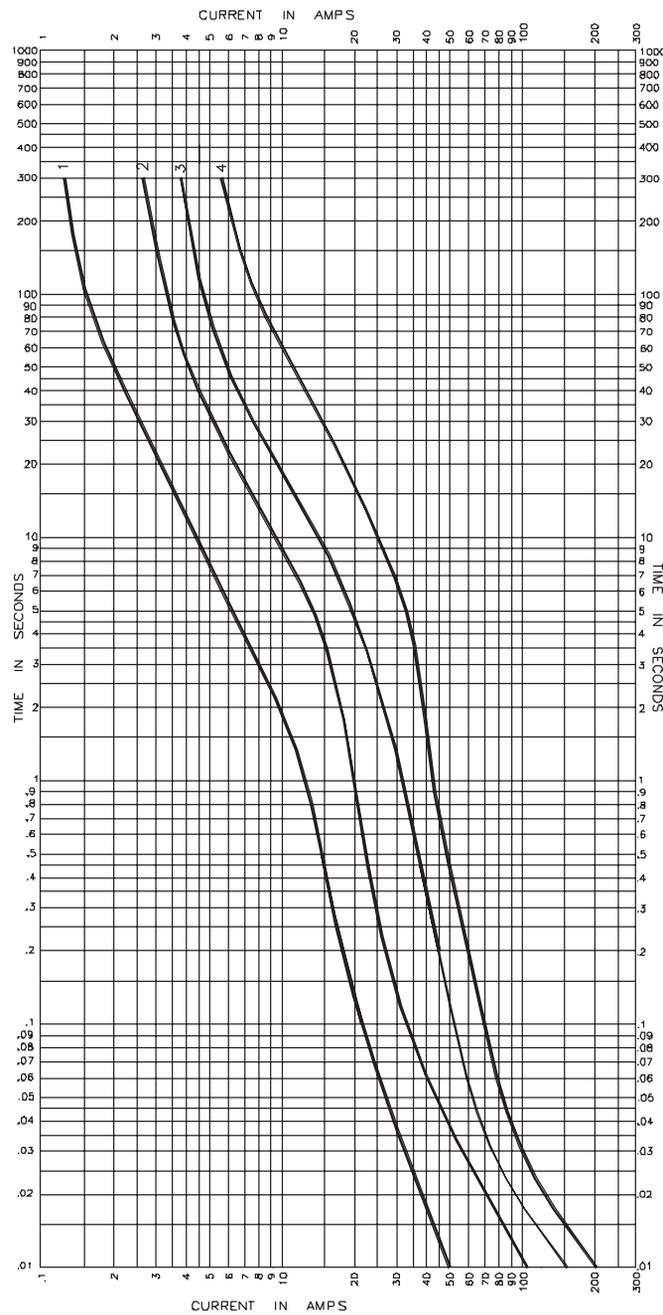
Up to 60 A



70-600 A

Catalog symbol	Amps	A	B
ECNR	Up to 30	2	0.56
	35-60	3	0.81
	70-100	5.88	1.06
	110-200	7.13	1.56
	225-400	8.63	2.38
	450-600	10.38	2.88
ECSR	Up to 30	5	0.81
	35-60	5.5	1.06
	70-100	7.88	1.11
	110-200	9.63	1.61
	225-400	11.63	2.34
	450-600	13.38	2.88

ECNR time-current curves — average melt



Cross reference by manufacturer's catalog symbol

Fuse class/type	Description	Volts	Edison	See cat. page	Brush/Dorman	GEC/CEFCO	Mersen	Littelfuse	Fusetek	Siemens	Noram	Aeroflex
UL Class fuses (CSA Class)												
RK1 (HRCI-R)	Fast-acting	250	NCLR	24	NCLR	C-HG	A2KR, HNR	KLNR	RHN	—	—	HB
		600	SCLR		SCLR	C-HR	A6KR, HSR	KLSR	RHS	—	—	HA
	Time-delay	250	LENRK	19	LENRK	LON-RK	A2D-R	LLNRK	—	—	2R-D	—
		600	LESRK		LESRK	LOS-RK	A6D-R	LLSRK	—	—	6R-D	—
RK5 (HRCI-R)	Time-delay	250	ECNR	27	ECNR	CRNR	TRNR, TR	FLN-R	RDN	—	—	—
		600	ECSR		ECSR	NRSR	TRSR, TRS	FLS-R IDSR	RDS	—	—	—
	600	LCU	LCU		CL, CLU	A4BQ	—	LFA	—	—	6L-F	L8, L12
L (HRCI-L)	Fast-acting	600	LCU	15	LCL	CLL	A4BY, A4BT	KLPC, KLLU	—	—	6L-D	L16, L20
	Time-delay	600	LCL		LCL	CLL	A4BY, A4BT	KLPC, KLLU	—	—	6L-D	L16, L20
J (HRCI-J)	Fast-acting	600	JFL	9	JCL, CJ	C-J	A4J, CJ	JLS	JFC	3NW2-71-	6J-F	JA
	Time-delay	600	JDL	7	—	—	AJT	JTD	—	—	J-D	—
	High speed	600	JHL	11	—	—	—	LDFJ	—	—	—	—
T (HRCI-T)	Fast-acting	300	TJN	32	TJN	—	A3T	JLLN	—	—	—	—
		600	TJS		TJS	—	A6T	JLLS	—	—	—	—
G	Time-delay	480	SEC	5	—	—	AG5	SLC	—	—	—	—
	Time-delay	600	EDCC	1	—	—	ATDR	CCMR	—	—	6M-S	—
CC (HRCI-CC)	Time-delay	600	HCTR	3	—	—	ATQR	KLDR	—	—	6CC-S	—
	Time-delay	600	HCTR		—	—	ATQR	KLDR	—	—	6CC-S	—
	Fast-acting	600	HCLR		HCLR	CTK-R	ATMR	KLKR	FLKR	—	—	6CC-F
H and K5	Fast-acting	250	KON	13	KON	50KOTN	OTN	NLN	OFN	—	—	—
		600	KOS		KOS	50KOTS	OTS	NLS	OFS	—	—	—
UL 13/32" x 1-1/2" supplemental fuses												
Midget	Fast-acting	600	MCL	38	MCL	CTK	ATM	KLK	FLK	—	6M-S	—
		600	EBS*		EBS*	—	SBS*	BLS*	—	—	6N-F*	—
		250	MOL		MOL	—	OTM	BLF	FLF	—	—	—
Midget	Time-delay	500	MEQ	40	MEQ	—	ATQ	FLQ	—	—	—	—
		250	MEN		MEN	—	TRM	FLM	FRM	—	—	—
		125/250	MID		MID	—	GFN	FLA	—	—	—	—
Canadian fuses												
Code/standard 10 kA	One Time	250	KON/PONC	—	KON/PON	50KOTN	NRN OTN	NLN	OFN	—	—	—
		600	KOS	—	KOS	50KOTS	NRS OTS	NLS	OFS	—	—	—
	Time-delay	250	CDNC	—	CDN	—	CRN	FLN	ODN	—	—	—
TYPE K Class C	Offset	600	CIH07	—	CIH07	C-K	ESK	—	—	—	—	—
			CIK07	—	CIK07	C-K	ESK	—	—	—	—	—
	Blade		CIL14	—	CIL14	C-K	ESK	—	—	—	—	—
HRCI-CA	Fast-acting	600	CIF21	—	CIF21	C-N	MS	—	—	3NWOMFS2	6CA-F	—
HRCI-CB	Fast-acting	600	CIF06	—	CIF06/NK	CNS	GNS	—	NIC	3NWOMFS1	6CB-F	—
			EK	—	EK	CES	—	—	—	—	—	
HRC-II Fuses												
HRC-II-C	Offset blade	600	H07C	—	H07C, AAO	CIA	FES, GIA	—	2CO	3NW2-11	6C-F	932
			K07C	—	K07C, BAO	CIS	FES, GIS	—	2CO	3NW2-12	6C-F	933
			L14C	—	L14C, CEO	CCP	FES, GCP	—	2CO	3NW2-13	6C-F	944
	Center blade		M09C	—	M09C, DD	CF	FESC, GF	—	2CC	3NW2-23	6C-F	965
			P11C	—	P11C, EF	CM	FESC, GM	—	2CC	3NW2-31	6C-F	976
HRC-II MISC	Offset center	R11C	—	R11C, FF	CLM	FESC, GLM	—	2CC	3NW2-34	6C-R	977	
		K07CR	—	K07CR, OSD	—	—	—	—	—	—	—	
		L09C	—	L09C, CD	CC	FESC, GC	—	2CM	3NW2-22	—	964	
		M14C	—	M14C, DEO	CFP	FES, GFP	—	2CM	3NW2-14	—	945	
		P09C	—	P09C, ED	CMF	FESF, GMF	—	2CM	3NW2-25	—	966	
Miniature blade	Offset	CIF21	—	F21, NITD	NIT	GIT	—	N2B	—	—	—	
		CIF06	—	F06, NSD, NSC	NS	NSG	—	N2C	—	—	—	
Small dimension fuses												
Size	Description	Edison		See cat. page	Brush	GEC/CEFCO	Mersen	Littelfuse	Fustek	Noram		
		New	Old									
5x20 mm	Time-delay, gls.	S506	GDC	43	BDC	CMB	GDG	218	SD6	SE-S		
	Fast-acting, gls.	GMA	BMA	44	BMA	CMA	GGM	235	MQ4	SE-F		
	Fast-acting, gls.	S500	GDB	43	BDB	—	GSB	217	—	—		
	Fast-acting, gls.	S501	GDA		—	—	—	216	—	—		
	Time-delay, gls.	GMC	—	44	—	—	GSC	—	—	—		
Time-delay, gls.	GMD	—	—		—	GSC	239	—	—			
1/4 x 1-1/4"	Fast-acting, gls.	AGC	BGC	45	BGC	3AG	GGC	312	SS2/SS6	SU-F		
	Fast-acting, cer.	ABC	BBC		BBC	3AB	GAB	314	CES14	—		
	V fast-acting, cer.	GBB	—	46	—	—	—	322	—	—		
	Time-delay, gls.	MDL	BDL		BDL	3AG-SB	GDL	313	SD4	SU-S		
	Time-delay, cer.	MDA	BDA		—	—	GSA	326	—	—		

* 13/32" x 1-3/8"