

FNQ-R Class CC Limitron™ time-delay rejection-type fuse

Time-delay, branch circuit, rejection-type fuse. For superior electrical protection, Eaton recommends upgrading FNQ-R fuse applications to Bussmann series Low-Peak LP-CC fuses, see page 1-5.

Dimensions 13/32" x 1-1/2" (10x38mm)

Ratings

- Volts
 - 600 Vac (or less)
 - 300 Vdc (15-20 A)
 - 32 Vdc (self certified)
- Amps 1/4-30 A
- IR
 - 200 kA RMS Sym.
 - 20 kA DC (15 and 20 A only)



Agency information

- UL Listed, Std 248-4, Class CC, Guide JDDZ, File E4273, CSA Certified, Class 1422-01, File 53787, RoHS compliant, CE

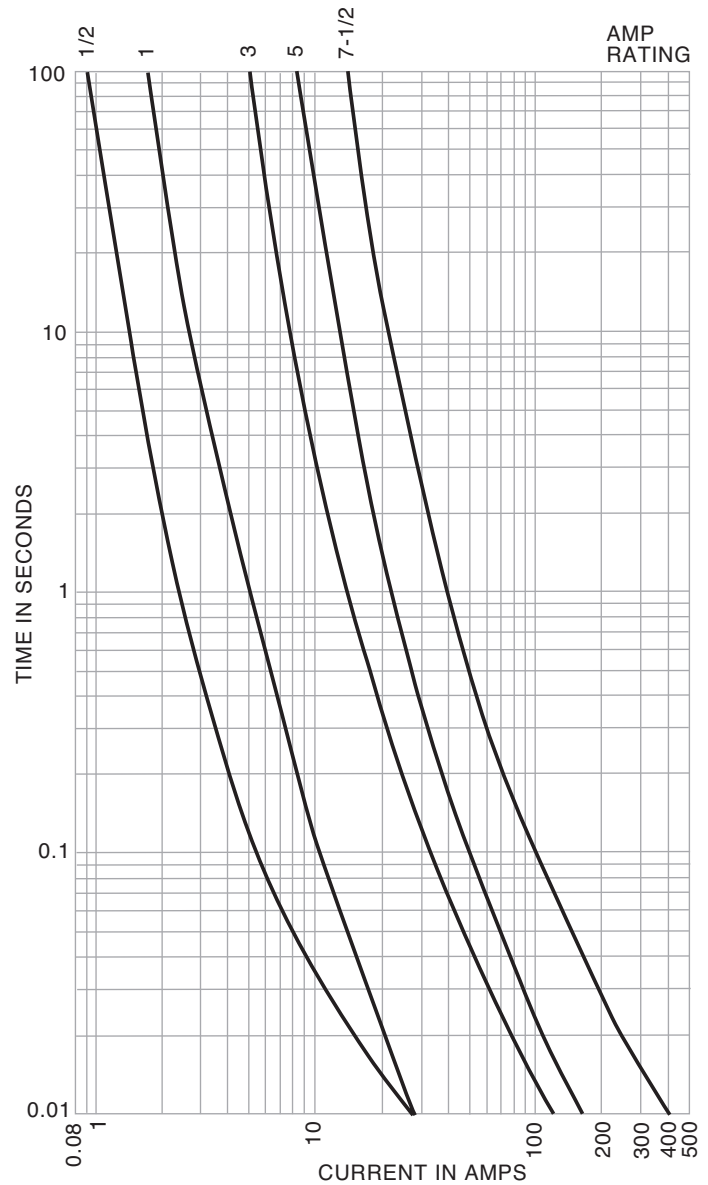
Features

- Class CC rejection feature, with appropriate fuse block, prevents inserting lesser-rated supplementary fuses
- Time-delay compatible with inrush characteristic of small control transformers
- Current limitation at Class CC levels provides maximum component short-circuit current rating protection
- 200 kA interrupting rating provides high ratings for control circuit locations

Typical applications

- Line protection, small control transformers
- Industrial controls and panels
- Isolated, in-line fuse holders

Time-current characteristics — average melt



Catalog no. (amps)

FNQ-R-1/4	FNQ-R-1-3/10	FNQ-R-3-2/10	FNQ-R-8
FNQ-R-3/10	FNQ-R-1-4/10	FNQ-R-3-1/2	FNQ-R-9
FNQ-R-4/10	FNQ-R-1-1/2	FNQ-R-4	FNQ-R-10
FNQ-R-1/2	FNQ-R-1-6/10	FNQ-R-4-1/2	FNQ-R-12
FNQ-R-6/10	FNQ-R-1-8/10	FNQ-R-5	FNQ-R-15
FNQ-R-3/4	FNQ-R-2	FNQ-R-5-6/10	FNQ-R-17-1/2
FNQ-R-8/10	FNQ-R-2-1/4	FNQ-R-6	FNQ-R-20
FNQ-R-1	FNQ-R-2-1/2	FNQ-R-6-1/4	FNQ-R-25
FNQ-R-1-1/8	FNQ-R-2-8/10	FNQ-R-7	FNQ-R-30
FNQ-R-1-1/4	FNQ-R-3	FNQ-R-7-1/2	

Recommended holders and blocks for Class CC fuses, see page 1-2.

Fuse holder and block selection guide

Catalog pages for the blocks and holders are denoted parenthetically "()" next to their catalog symbol.

Fuse class	Catalog symbol	Blocks	DIN-Rail holders	Panel mount holders	In-line holders
CC	FNQ-R KTK-R LP-CC	BCM (8-6) 3743 (8-14) 4421 (8-14) 4515 (8-14)	OPM-1038 (8-12) OPM-NG (8-13) CHCC (8-8) CCP-CC††† (11-2)	HPF-RR (8-45) HPS-RR (8-47)	HEY (8-55) HEZ (8-54)
CF	FCF TCF WCF††	TCFH (1-11) TCFHNW (1-11)	CCP-CF††† (11-4) CCPB††† (11-6)	—	—
G	SC	BG (8-15) G (8-15)	—	HPG-EE (15 A) (8-46) HPS-EE (15 A) (8-47) HPS-FF (30 A) (8-47) HPS-JJ (20 A) (8-47)	HEC (30 A) (8-51) HEG (15 A) (8-51) HEH (20 A) (8-51) HEJ (60 A) (8-51)
H(K) 250 V	NON (250 V)	HM25_ (8-19) HM25060_MW* (8-24)	—	—	—
H(K) 600 V	NOS (600 V)	HM60_ (8-19) HM60030_MW* (8-24)	—	—	—
J	LPJ JKS	JM60_ (8-31) JM60_MW* (8-33) JP60030 (8-30)	CH_J (8-28) JT(N) (8-29)	—	—
L	KRP-C KRP-CL KLU KTU	51215** 51235**	—	—	—
RK1 250 V	LPN-RK KTN-R	RM25_ (8-21) RM25_MW* (8-26)	—	—	—
RK1 600 V	LPS-RK KTS-R	RM60_ (8-21) RM60_MW* (8-26)	—	—	—
RK5 250 V	FRN-R	RM25_ (8-21) RM25_MW* (8-26)	—	—	—
RK5 600 V	FRS-R	RM60_ (8-21) RM60_MW* (8-26)	—	—	—
T 300 V	JJN	T300 (8-35)	—	—	—
T 600 V	JJS	T600 (8-37)	—	—	—
T up to 600 V	JJN/JJS	BH-0_, BH-1_, BH-3_† (8-39)	—	—	—
Plug fuses	P, T, TC, TL, W Edison base	Box cover units (1-30)	—	—	—
	S, SL rejection base	SA adapters (1-29)	—	—	—

* Power distribution fuse blocks.

** Up to 800 A, contact customer satisfaction at 855-287-7626 for more information.

† Various blade bolt-on up to 700 A, see data sheets for limitations.

†† WCF (wind CUBEFuse) is rated to 690 V and is not a UL Listed Class CF fuse and can only be applied in the TCFHNW holder.

††† UL 98 Listed disconnect switch, available in 1-, 2- and 3-pole versions.

250 V fuse reducers

Equipment fuse clip amps	Desired fuse (case)	
	amp size	Catalog no. (pairs)
60	30	NO.263-R
	30	NO.213-R
100	60	NO.216-R
	60	NO.226-R
200	100	NO.2621-R
	100	NO.2641-R
400	200	NO.242-R
	100	NO.2661-R
600	200	NO.2662-R
	400	NO.2664-R*

* Single reducer only (pair not required).

600 V fuse reducers

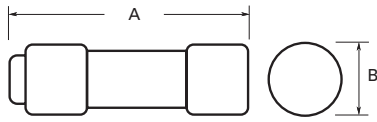
Equipment fuse clip amps	Desired fuse (case)	
	amp size	Catalog no. (pairs)
60	30	NO.663-R
	30	NO.216-R
100	60	NO.616-R
	60	NO.626-R
200	100	NO.2621-R
	100	NO.2641-R
400	200	NO.642-R
	100	NO.2661-R
600	200	NO.2662-R
	400	NO.2664-R*

* Single reducer only (pair not required).

Branch circuit fuse dimensions

Class CC — in (mm)

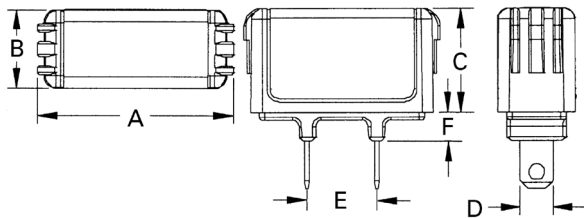
LP-CC, FNQ-R, KTK-R and LP-CC



Amp range	A	B
Up to 30	1.5 (38)	0.41 (10)

Class CF — in (mm)

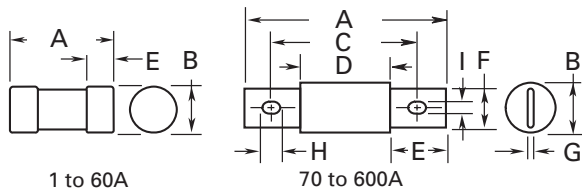
TCF, FCF and WCF



Amp range	A	B	C	D	E	F
1-15	1.88 (48)	0.75 (19)	1.0 (25)	0.23 (6)	0.63 (16)	0.28 (7)
17-1/2	1.88 (48)	0.75 (19)	1.0 (25)	0.31 (8)	0.63 (16)	0.28 (7)
20	1.88 (48)	0.75 (19)	1.0 (25)	0.31 (8)	0.63 (16)	0.28 (7)
25-30	1.88 (48)	0.75 (19)	1.0 (25)	0.31 (8)	0.63 (16)	0.28 (7)
35-40	2.13 (54)	1.0 (25)	1.13 (29)	0.36 (9)	0.63 (16)	0.38 (10)
45-50	2.13 (54)	1.0 (25)	1.13 (29)	0.44 (11)	0.63 (16)	0.38 (10)
60	2.13 (54)	1.0 (25)	1.13 (29)	0.44 (11)	0.63 (16)	0.38 (10)
70	3.01 (76)	1.0 (25)	1.26 (32)	0.49 (12)	0.58 (15)	0.38 (10)
80-90	3.01 (76)	1.0 (25)	1.26 (32)	0.49 (12)	0.58 (15)	0.38 (10)
100	3.01 (76)	1.0 (25)	1.26 (32)	0.57 (14)	0.58 (15)	0.38 (10)

Class J — in (mm)

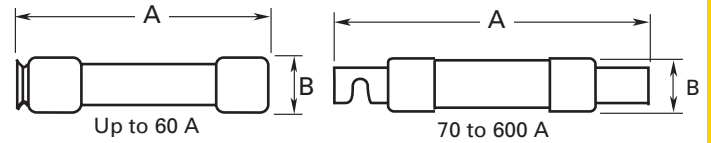
LPJ and JKS



Amp range	A	B	C	D	E	F	G	H	I
1-30	2.25 (57)	0.81 (21)	—	—	0.5 (13)	—	—	—	—
35-60	2.38 (60)	1.06 (27)	—	—	0.63 (16)	—	—	—	—
70-100	4.63 (118)	1.13 (29)	3.63 (92)	2.63 (67)	1.0 (25)	0.75 (19)	0.13 (3)	0.41 (10)	0.28 (7)
110-200	5.75 (146)	1.63 (41)	4.38 (111)	3.0 (76)	1.38 (35)	1.13 (29)	0.19 (5)	0.38 (10)	0.28 (7)
225-400	7.12 (181)	2.11 (54)	5.25 (133)	3.26 (83)	1.87 (48)	1.62 (41)	0.25 (6)	0.56 (14)	0.4 (10)
450-600	8.0 (203)	2.6 (66)	6.0 (152)	3.31 (84)	2.12 (54)	2.0 (51)	0.53 (14)	0.72 (18)	0.53 (14)

Class RK1 and RK5 — in (mm)

FRN-R, KTN-R LPN-RK (250 V) and FRS-R, KTS-R LPS-RK (600 V)

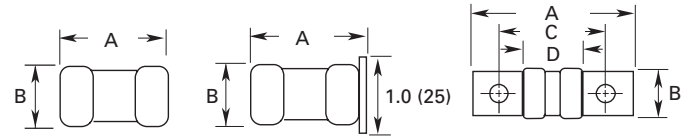


Basic dimensions are same as Class H, one-time (NON and NOS) fuses. **Note:** relating to dimensional compatibility these fuses can replace existing Class H, RK1 and RK5 fuses.

Amp range	250 V fuses		600 V fuses	
	A	B	A	B
Up to 30	2 (51)	0.56 (14)	5.0 (127)	0.81 (21)
35-60	3 (76)	0.81 (21)	5.5 (140)	1.06 (27)
RK5 FRN-R, FRS-R, — RK1 KTN-R, KTS-R				
70-100	5.88 (149)	1.06 (27)	7.88 (200)	1.34 (34)
110-200	7.13 (181)	1.56 (40)	9.63 (245)	1.84 (47)
225-400	8.63 (219)	2.38 (61)	11.63 (295)	2.59 (66)
450-600	10.38 (264)	2.88 (73)	13.38 (340)	3.13 (80)
RK1 LPN-RK, LPS-RK				
70-100	5.88 (149)	1.16 (30)	7.88 (200)	1.16 (30)
110-200	7.13 (181)	1.66 (42)	9.63 (245)	1.66 (42)
225-400	8.63 (219)	2.38 (61)	11.63 (295)	2.38 (61)
450-600	10.38 (264)	2.88 (73)	13.38 (340)	2.88 (73)

Class T — in (mm)

JJN (300 V) and JJS (600 V)



JJN up to 60 A JJS 35 to 60 A JJN 70 to 1200 A
JJS up to 30 A JJS 70 to 800 A

Amp range	A	B	C	D
300 V JJN				
Up to 30	0.88 (22)	0.41 (10)	—	—
35-60	0.88 (22)	0.56 (14)	—	—
70-100	2.16 (55)	0.75 (19)	1.56 (40)	0.84 (21)
110-200	2.44 (62)	0.88 (22)	1.69 (43)	0.84 (21)
225-400	2.75 (70)	1.00 (25)	1.84 (47)	0.86 (22)
450-600	3.06 (78)	1.25 (32)	2.03 (52)	0.88 (22)
601-800	3.38 (86)	1.75 (45)	2.22 (56)	0.89 (23)
801-1200	4.00 (102)	2.00 (51)	2.53 (64)	1.08 (27)
600 V JJS				
Up to 30	1.50 (38)	0.56 (14)	—	—
35-60	1.56 (40)	0.81 (21)	—	—
70-100	2.95 (75)	0.75 (19)	2.36 (60)	1.64 (42)
110-200	3.25 (83)	0.88 (22)	2.50 (64)	1.66 (42)
225-400	3.63 (92)	1.00 (25)	2.72 (69)	1.73 (44)
450-600	3.98 (101)	1.25 (32)	2.96 (75)	1.78 (45)
601-800	4.33 (110)	1.75 (45)	3.17 (81)	1.88 (48)

Low voltage, branch circuit fuses