Cooper Bussmann Branch Circuit, Power Distribution Fuses

Good

Replace

Low-Peak® Fuses* Now Offer Indication That's As Clear As Black And White

Low-Peak current-limiting fuses offer optional permanent replacement fuse indication. The indicator is either black or white; no in between coloring so no second-guessing whether to replace the fuse or not.

Proven Technology

Low-Peak fuses offer the same replacement fuse indication technology that 's proven itself on the Cooper Bussmann CUBEFuse™ fuse and fuse holder system. It's the most reliable technology on the market today.

* Indication available on Cooper Bussmann LPJ_SPI, LPN-RK_SPI (250V) and LPS-RK_SPI (600V).

Low-Peak (Time-Delay)

KRP-C_SP (600Vac), 601 to 6000A, Current-Limiting STD 248-10 Class L

UL Guide #JFHR, UL File #E56412, 300,000AIR ac, 601-2000A (300Vdc 100,000AIR), CSA Class #1422-02, CSA File #53787, 200,000AIR ac

The all-purpose fuse for both overload and short circuit protection of high capacity systems (mains and large feeders). Time-delay (minimum of four seconds at five times amp rating) for close sizing. Unlike fast-acting fuses, time-delay fuses pass harmless surge currents of motors, transformers, etc., without overfusing or any sacrifice of short-circuit current limitation (component protection). The combination use of 1/10 to 600A Low-Peak dual-element time-delay fuses and 601 to 6000A KRP-C Low-Peak fuses is recommended as a total system specification. Easily selectively coordinated for blackout protection. Size of upstream fuse need only be twice that of downstream Low-Peak fuses (2:1 ratio). Low-Peak fuses can reduce bus bracing; protect circuit breakers with low interrupting rating as well as provide excellent overall protection of circuits and loads.

Data Sheet No. 1008, 1009

Low-Peak (Dual-Element, Time-Delay)

LPJ_SP (600Vac), 1 to 600A, Current-Limiting, STD 248-8 Class J

UL Guide #JFHR, UL File #E56412, 300,000AIR ac, 1 to 600A (300Vdc 100,000AIR), CSA Class #1422-02, CSA File #53787, 200,000AIR ac

Space saving LPJ fuses have the advantage of time- delay, permitting them to pass temporary overloads, offering overload, back-up overload, and short circuit protection. Ideal for IEC starter protection.

Data Sheet No. 1006, 1007

Low-Peak (Time-Delay)

LP-CC (600Vac), ½ to 30A Current-Limiting 200,000AIR ac,
STD 248-4 Class CC

UL Guide #JDDZ, UL File #E4273, ½ -2.25A (300Vdc 20,000AIR), 3-15A (150Vdc 20,000AIR), 20-30A (300Vdc 20,000AIR), CSA Class #1422-02, CSA File #53787

The Cooper Bussmann Low-Peak Class CC fuse (LP-CC) was developed specifically for a growing need in the industry - a compact, space saving branch circuit fuse for motor circuits.

Data Sheet No. 1023

Low-Peak (Dual-Element, Time-Delay)

LPS-RK_SP (600Vac), LPN-RK_SP (250Vac), 1/10 to 600A, Current-Limiting, STD 248-12 Class RK1

LPN-RK_SP 0-60A (125Vdc, 50,000AIR), 65-600A (250Vdc, 50,000AIR), LPS-RK_SP 0-600A (300Vdc, 50,000AIR)

UL Guide #JFHR, UL File #E56412, 300,000AIR ac, CSA Class #1422-02, CSA File #53787, 200,000AIR ac

High performance, all-purpose fuses. Provide the very high degree of short circuit limitation of Limitron fuses plus the overload protection of Fusetron fuses in all types of circuits and loads. Can be closely sized to full-load motor currents for reliable motor overload protection, as well as backup protection. Close sizing permits the use of smaller and more economical switches (and fuses); better selective coordination against blackouts; and a greater degree of current-limitation (component protection), Low-Peak fuses are rejection type but also fit non-rejection type fuse holders. Thus, can be used to replace Class H, K1, K5, RK5 or other RK1 fuses.

Data Sheet No. 1001, 1002, 1003, 1004

CUBEFuse™ (Dual-Element, Time-Delay)

TCF (600Vac), 1 to 100A, Current-Limiting, UL Listed Special Purpose Fuse, STD 248-8 Class J Performance

UL Guide # JFHR, UL File # E56412, 300,000AIR ac, (300Vdc – 100,000AIR), CSA Class #1422-02, CSA File #53787, 200,000AIR ac, (300VDC – 100,000AIR)

TCF fuses meet UL Class J Time-Delay electrical performance requirements. It is the world's first finger-safe fuse with the smallest installed footprint of any power class fuse including Class J, CC, T and R fuses. Satisfies requirements of IEC 60529 for IP-20 finger safe rating and provides TYPE 2 "no damage" protection for motor starters when sized properly. The TCF provides open fuse indication and is 35mm DIN rail and panel mountable.

Data Sheet No. 9000

Fusetron® (Dual-Element, Time-Delay)

FRS-R (600Vac), FRN-R (250Vac), 1/10 to 600A, 200,000AIR ac, FRN-R 0-600A (125Vdc, 20,000AIR), FRS-R 0-600A (300Vdc, 20,000AIR), Current-Limiting
STD 248-12 Class RK5

UL Guide #JDDZ, UL File #E4273, CSA Class #1422-02, CSA File #53787

Time-delay affords the same excellent overload protection as Low-Peak fuses of motors and other type loads and circuits having temporary inrush currents such as those caused by transformers and solenoids. (In such circuits, Limitron fuses can only provide short circuit protection). Fusetron fuses are not as fast-acting on short circuits as Low-Peak fuses and therefore cannot give as high a degree of component short circuit protection. Like the Low-Peak fuse, Fusetron fuses permit the use of smaller size and less costly switches. Fusetron fuses fit rejection type fuse holders and can also be installed in holders for Class H fuses. They can physically and electrically replace Class H, K5, and other Class RK5 fuses.

Data Sheet No. 1017, 1018, 1019, 1020

For Data Sheets: www.cooperbussmann.com

Cooper Bussmann Branch Circuit, Power Distribution Fuses

T-Tron® (Fast-Acting)

JJS (600Vac) 1-800A, JJN (300Vac) 1-1200A, 200,000AIR ac Current-Limiting STD 248-15 Class T

UL Guide #JDDZ, UL File #E4273, JJN 15-600A (160Vdc, 20,000AIR), JJN 601-1200A (170Vdc 100,000AIR)

CSA Class #1422-02, CSA File #53787

The space-savers. Counter-part of the KTN-R/KTS-R Limitron fuses, but only one-third the size; thus, particularly suited for critically restricted space. A single-element fuse; extremely fast-acting. Provides a high degree of current limitation on short circuits for excellent component protection. Must be oversized in circuits with inrush currents common to motors, transformers, and other inductive components (will give only short circuit protection).

Data Sheet No. 1029, 1025

Limitron® (Fast-Acting)

KTU (600Vac), 601 to 6000A, 200,000AIR ac, Current-Limiting STD 248-10 Class L

UL Guide #JDDZ, UL File #E4273, CSA Class #1422-02, CSA File #53787

Single-element fuses with no intentional time-delay. Very fast-acting with a high degree of current limitation; provide excellent component protection. Can be used for short circuit protection in circuits with inrush currents. Must be oversized to prevent opening by the temporary harmless overloads with some sacrifice of current limitation. In motor circuits, is sized at approximately 300% of motor full-load current.

Data Sheet No. 1010

Limitron (Time-Delay)

KLU (600Vac), 601 to 4000A, 200,000AIR ac, Current-Limiting STD 248-10 Class L

UL Guide #JDDZ, UL File #E4273, CSA Class #1422-02, CSA File #53787

5 second delay (minimum) at 500% of rated current. Not as current-limiting as KRP-C_SP or KTU fuses.

Data Sheet No. 1013

Limitron (Fast-Acting)

KTK-R (600Vac), 1/10 to 30A, 200,000AIR ac, Current-Limiting STD 248-4 Class CC

UL Guide #JDDZ, UL File #E4273, CSA Class #1422-02

CSA File #53787,

A very small, high performance, fast-acting, single-element fuse for protection of branch circuits, motor control circuits, lighting ballasts, street lighting fixtures. A diameter of only 13/32 and a length of 1 ½ inch give cost and space savings. A grooved ferrule permits mounting in "rejection" type fuse holders as well as standard non-rejection type holders.

Data Sheet No. 1015

CC-Tron® (Time-Delay)

FNQ-R (600Vac), ¼ to 30A, 200,000AIR ac Current-Limiting STD 248-4 Class CC

UL Guide #JDDZ, UL File #E4273, CSA Class #1422-01, CSA File #53787

Ideal for control transformer protection. Can be sized to meet requirements of NEC® 430.72 and UL 508. Its miniature design and branch circuit rating allow it to be used for motor branch circuit and short circuit protection required by NEC® 430.52.

Data Sheet No. 1014

Limitron (Fast-Acting)

JKS (600Vac), 1 to 600A, 200,000AIR ac Current-Limiting STD 248-8 Class J

UL Guide #JDDZ, UL File #E4273, CSA Class #1422-02, CSA File #53787

JKS Limitron fuses are basically the same as RK1 Limitron fuses but smaller in physical size. JKS fuses are single-element units with no intentional time-delay and are thus best applied in circuits free of the temporary overloads of motor and transformer surges. The smaller dimensions of Class J fuses prevent their replacement with conventional fuses.

Data Sheet No. 1026, 1027

Limitron (Fast-Acting)

KTS-R (600Vac), KTN-R (250Vac), 1 to 600A, 200,000AIR ac Current-Limiting STD 248-12 Class RK1

UL Guide #JDDZ, UL File #E4273, CSA Class #1422-02, CSA File #53787

Single-element, fast-acting fuses with no intentional time-delay. The same basic performance of the 601-6000A KTU fast-acting Limitron fuses. Provide a high degree of short-circuit current limitation (component protection). Particularly suited for circuits and loads with no heavy surge currents of motors, transformers, solenoids, and welders. Limitron fuses are commonly used to protect circuit breakers with lower interrupting ratings. If used in circuits with surge currents (motors, etc.), must be oversized to prevent opening and, thus, only provide short circuit protection. Incorporate Class R rejection feature. Can be inserted in non-rejection type fuse holders. Thus, can physically and electrically replace fast-acting Class H, K1, K5, RK5, and other RK1 fuses.

Data Sheet No. 1044, 1043

Type SC (½-6A Fast-Acting, 8-60A Time-Delay)

SC 100,000AIR ac, ½ -20A (600Vac), 25-60A (480Vac) STD 248-5 Class G

UL Guide #JDDZ, UL File #E4273 0-20A (170Vdc 10,000AIR), 25-30A (300Vdc 10,000AIR), 35-60A (300Vdc 10,000AIR)

CSA Class #1422-01, CSA File #53787

A high performance general-purpose branch circuit fuse for lighting, appliance, and motor branch circuits. Fuse diameter is 13/32; lengths vary with amp rating from 1 5/16 to 2 ¼ inches (serves as rejection feature and, thus, prevents oversizing).

Data Sheet No. 1024

Dura-Lag® (Time-Delay)

Construction Grade Fuses, DLS-R (600Vac)

DLN-R (250Vac) 1 to 600A, 200,000AIR ac, Current-Limiting STD 248-12 Class RK5

UL Guide #JDDZ, UL File # E4273, CSA Class #1422-02

CSA File #53787

Designed for contractor needs. Protects industrial equipment and large motors. Recommended for ac power distribution system mains, feeders and branch circuits. Industry standard time delay of 10 seconds at 5 times the fuse rating.

Data Sheet No. 1021, 1022

For Data Sheets: www.cooperbussmann.com

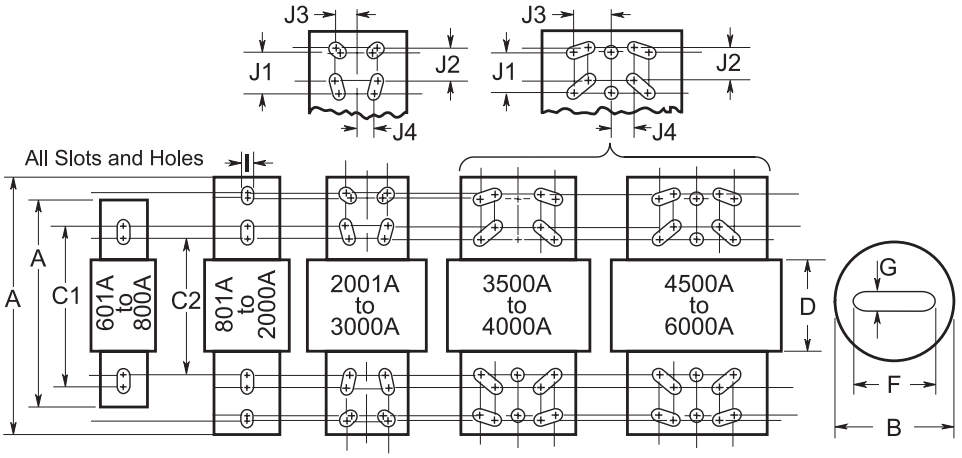
Branch Circuit Fuse Dimensions

Class L - in (mm)

Low-Peak and Limitron Fuses

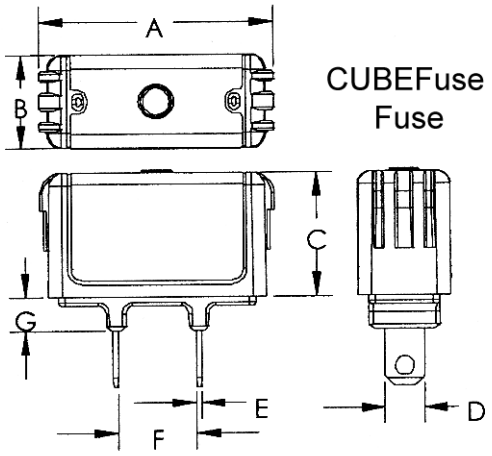
Amp Range	A	B	C1	C2	D	F	G	I	J1	J2	J3	J4
601-800	8.63 (219.1)	2.40 (61.0)	6.75 (171.5)	5.75 (146.1)	3.75 (95.3)	2.00 (50.8)	0.38 (9.5)	0.63 (15.9)	—	—	—	—
801-1200	10.75 (273.1)	2.40 (61.0)	6.75 (171.5)	5.75 (146.1)	3.75 (95.3)	2.00 (50.8)	0.38 (9.5)	0.63 (15.9)	—	—	—	—
1350-1600	10.75 (273.1)	3.00 (76.2)	6.75 (171.5)	5.75 (146.1)	3.75 (95.3)	2.38 (60.3)	0.44 (11.1)	0.63 (15.9)	—	—	—	—
1800-2000	10.75 (273.1)	3.50 (88.9)	6.75 (171.5)	5.75 (146.1)	3.75 (95.3)	2.75 (69.9)	0.50 (12.7)	0.63 (15.9)	—	—	—	—
2001-2500	10.75 (273.1)	4.80 (122.0)	6.75 (171.5)	5.75 (146.1)	3.75 (95.3)	3.50 (88.9)	0.75 (19.1)	0.63 (15.9)	1.75 (44.5)	1.38 (34.9)	0.88 (22.2)	0.81 (20.6)
3000	10.75 (273.1)	5.00 (127.0)	6.75 (171.5)	5.75 (146.1)	3.75 (95.3)	4.00 (101.6)	0.75 (19.1)	0.63 (15.9)	1.75 (44.5)	1.38 (34.9)	0.88 (22.2)	0.81 (20.6)
3500-4000	10.75 (273.1)	5.75 (146.1)	6.75 (171.5)	5.75 (146.1)	3.75 (95.3)	4.75 (120.7)	0.75 (19.1)	0.63 (15.9)	1.75 (44.5)	1.38 (34.9)	1.63 (41.3)	0.88 (22.2)
4500-5000	10.75 (273.1)	6.25 (158.8)	6.75 (171.5)	5.75 (146.1)	3.75 (95.3)	5.25 (133.4)	1.00 (25.4)	0.63 (15.9)	1.75 (44.5)	1.38 (34.9)	1.63 (41.3)	0.88 (22.2)
6000	10.75 (273.1)	7.13 (181.0)	6.75 (171.5)	5.75 (146.1)	3.75 (95.3)	5.75 (146.1)	1.00 (25.4)	0.63 (15.9)	1.75 (44.5)	1.38 (34.9)	1.63 (41.3)	0.88 (22.2)

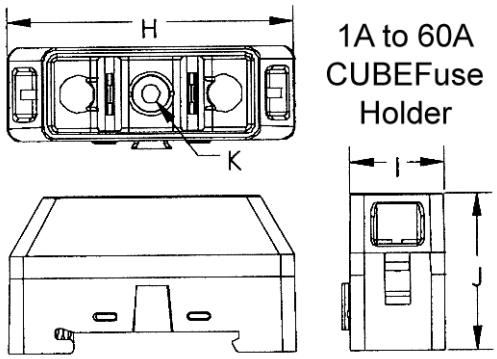
NOTE: KRP-CL (150A to 600A) fuses have same dimensions as 601-800A case size. KTU (200-600A) have same dimensions, except tube 3" length x 2" diameter (76.2 x 50.8mm); terminal 1⅝" width x 1¼" thick (41.3 x 31.8mm).

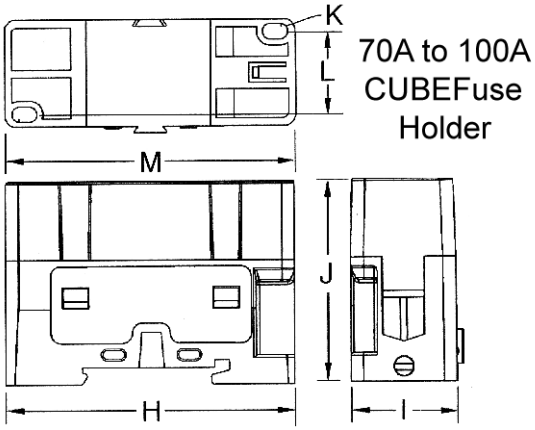


CUBEFuse Fuse and Fuse Holder - in (mm)

Dimension	30A	60A	100A
A	1.88 (47.75)	2.13 (54.10)	3.01 (76.45)
B	0.75 (19.05)	1.00 (25.40)	1.00 (25.40)
C	1.00 (25.40)	1.13 (28.58)	1.26 (32.00)
D	0.31 (7.94)	0.44 (11.11)	0.57 (14.48)
E	0.04 (1.02)	0.04 (1.02)	0.06 (1.60)
F	0.63 (15.88)	0.63 (15.88)	0.63 (15.88)
G	0.27 (6.86)	0.38 (9.65)	0.39 (9.93)
H	2.30 (58.42)	2.60 (66.04)	2.91 (73.91)
I	0.76 (19.30)	1.03 (26.16)	1.05 (26.75)
J	1.27 (32.18)	1.53 (38.86)	2.01 (51.05)
K	0.15 (3.81)	0.17 (4.32)	0.16 (4.06)
L	N/A	N/A	0.80 (20.32)
M	N/A	N/A	2.51 (63.75)







See Data Sheet 9000 for complete dimensional data and details on holder rejection features for the 30A, 60A and 100A holders.