FUSE BLOCKS OVERVIEW

Description

Littelfuse offers a comprehensive line of fuse blocks that incorporate many benefits such as indication, snap to-release, DIN-Rail mounting and universal mounting holes.

New Options Available

- Reduced Footprint—Save space with designs up to 35% smaller in width
- Indication—Increase safety and reduce downtime with built-in local neon indication
- Universal Mounting Holes—Simplify replacement with universal mounting options
- DIN Rail Mountable—Ease installation with a 35 mm hat DIN Rail mounting option
- One-Hand Release—Save time by using only one hand for a simple release from DIN Rail

Fuse Block Selection

The following guidelines should help simplify the selection of proper fuse blocks:

1. Determine the system voltage—Since fuses are selected on the basis of system voltage, fuse blocks are selected to match the voltage rating of the fuse.

2. Determine the design short-circuit current—If available short-circuit current cannot be determined, or if it will vary with equipment location, select fuses with a 200,000 ampere interrupting rating (A.I.R.) and mating fuse blocks with a withstand rating of 200,000 amperes for maximum safety.

3. Determine the type and ampere rating of the fuse to be used—The fuse ampere rating, opening characteristics (fast acting or time-delay) and size are important considerations in fuse selection. Fuse blocks may be used with a fuse rated at the corresponding amperage rating or below. For example, a fuse block rated at 30 amperes may be used with a fuse rated from 0 to 30 amperes.

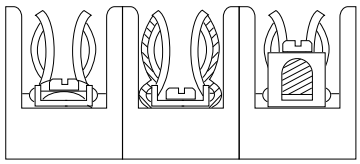
4. Determine if NEC®, CSA, UL, or other requirements are applicable—Any of these requirements should be obtained from the approving agency in advance of fuse and fuse block selection.

5. Select the type of wire termination

Three types of wire termination are available:

- Screw*—for use with spade lugs or ring terminals
- Screw with Pressure Plate*—for use with solid or stranded wire without terminal. Recommended where vibration will be a factor
- Box Lug—for use with all types of solid wire and Class B and Class C stranded wire. The most durable, but not for use with welding cable or other rope-stranded conductors.

*¼" Quick Connect terminals rated for up to 20 amperes are available on the Midget and Class CC fuse blocks.



6. Decide on the number of poles in each block—The number of poles for each set of fuses is determined by the characteristics of the circuit.

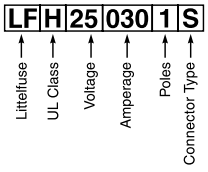
7. Determine if block should be DIN Rail mounted—Many of the new Littelfuse fuse blocks are DIN Rail mountable. Be sure to look to corresponding ordering tables to match the correct part number on the following product pages.

8. Determine if fuse clips need to be reinforced

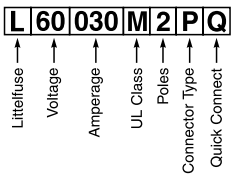
Fuse clips may have a tendency to lose some of their tension over a period of time. This may be prevented by specifying reinforced fuse clips.

Ordering Information

The Littelfuse fuse block part number consists of the below skeleton. Please refer to UL Class Tables for specific information.



†For all Class R, H, J, and T Fuse blocks

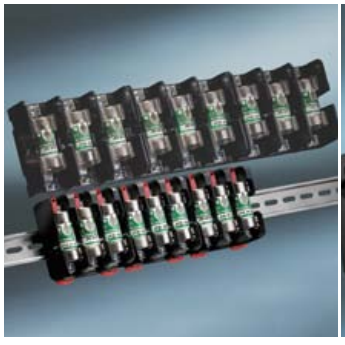


For all Class CC, G, and Midget-Style

†These new fuse blocks replace previous Littelfuse fuse blocks that had very similar part numbers for customer convenience. The only change is an "F" has been added as the second character in the new block part numbers.

Caution: Littelfuse indicating fuse holders are intended to quickly identify open fuses while power is still applied. Only qualified electrically trained technicians should replace fuses and follow standard OSHA and NFPA 70E safe work practices, such as Lock-Out and Tag-Out procedures and verification before replacing any fuses in indicating fuse holders.

LF SERIES INDICATING FUSE BLOCKS



Smaller Footprint Provides Space Savings

DIN-Rail Mounting Eases Installation

Indication Improves Functionality

An Indication of Value

The Littelfuse LF Series Fuse Blocks and Covers offer generous space savings and a greater value over previous generations. View the different series classes for available indication, snap-to-release DIN rail mounting, universal mounting holes and touch-safe covers.

LF SERIES CLASS H/K5 AND R FUSE BLOCKS

250 V • 600 V

Description

The Littelfuse Class H/K5 and R blocks offer many benefits such as indication, snap-to-release DIN rail mounting and universal mounting holes. Class H and Class R fuse blocks are dimensionally the same, but Class R blocks incorporate a rejection feature, which only allows Class R fuses to be inserted.

Features/Benefits

- Universal mounting holes for easy replacement
- Indication offered on most 250 V and 600 V versions
- One hand release from DIN rail for ferrule style fuses
- Reinforced fuse clips are standard on all Class H and Class R fuse blocks
- Covers available for 100 A and lower to enhance safety

Web Resources

Sample requests, downloadable CAD drawings and other technical information: **www.littelfuse.com/lfh**
www.littelfuse.com/lfr
www.littelfuse.com/fuseblocks

Specifications

Voltage Rating	250 V, 600 V
Ampere Ratings	0-600 A
Leakage Current	<0.6 mA at 600 V
Withstand Rating	Class H: 10 kA RMS SYM Class R: 200 kA RMS SYM
Flammability Rating	UL94 V-0
Approvals	UL Listed (File No. E14721) CSA Certified (File No. LR7316)
Environmental	RoHS Compliant, Lead (Pb) Free

Recommended Fuses

Class H/K5 Blocks – 250 V

Class R Blocks – 250 V

Class H/K5 Blocks – 600 V

Class R Blocks – 600 V

Ordering Information (Class H 250 V)

AMP RATING	POLES	ORDERING NUMBER				TORQUE	TERMINAL	WIRE RANGE	WIRE TYPE		BASE TEMP RATING	DIN RAIL	INDICATION	COVER ORDERING NUMBER*
		BASE PART NUMBER	SUFFIX											
			BOX LUG	PRESSURE PLATE	SCREW									
30	1	LFH250301	C	P	S	2.8 N-m (25 in-lbs)	C	6-14 AWG	CU Only	Solid/ Stranded	125°C	•	—	LFH25030FBC
	2	LFH250302	C	P	S		P	10-14 AWG						
	3	LFH250303	C	P	S		S	10-22 AWG						
60	1	LFH250601	CID	—	—	5.6 N-m (50 in-lbs)	2-4 AWG		CU-AL		125°C	•	•	LFH25060FBC
	2	LFH250602	CID	—	—									
	3	LFH250603	CID	—	—	2.8 N-m (25 in-lbs)	6-14 AWG							
100	1	LFH251001	CID	—	—	13.6 N-m (120 in-lbs)	2/0-6 AWG		CU-AL		130°C	—	•	LFH25100FBC
	3	LFH251003	CID	—	—	4.5 N-m (40 in-lbs)	8 AWG							
						4.0 N-m (35 in-lbs)	10-14 AWG							
200	1	LFH252001	C	—	—	31.1 N-m (275 in-lbs)	250 kcmil-6		CU-AL		130°C	—	—	—
	3	LFH252003	C	—	—									
400	1	LFH254001	C	—	—	31.1 N-m (275 in-lbs)	(2) 350 kcmil-1/0		CU-AL		130°C	—	—	—
	3	LFH254003	C	—	—									
600	1	LFH256001	C	—	—	42.4 N-m (375 in-lbs)	(2) 500 kcmil-4		CU-AL		130°C	—	—	—
	3	LFH256003	C	—	—									

*Note: Reinforcing springs standard on all Class H fuse blocks. *Covers sold individually. One cover needed for each pole.*

LF SERIES CLASS H/K5 AND R FUSE BLOCKS

Ordering Information (Class H 600 V)

AMP RATING	POLES	ORDERING NUMBER: BASE ORDERING NUMBER	SUFFIX: BOX LUG	SUFFIX: PRESSURE PLATE	SUFFIX: SCREW	TORQUE	TERMINAL	WIRE RANGE	WIRE TYPE		BASE TEMP RATING	SNAP TO RELEASE	INDICATION	COVER ORDERING NUMBER*
30	1	LFH600301	CID	PID	SID	2.8 N-m (25 in-lbs)	C	6-14 AWG	CU Only	Solid/ Stranded	130°C	•	•	LFH60030FBC
	2	LFH600302	CID	PID	SID		P	10-14 AWG						
	3	LFH600303	CID	PID	SID		S	10-22 AWG						
60	1	LFH600601	CID	—	—	5.6 N-m (50 in-lbs)	2-4 AWG		CU-AL		130°C	•	•	LFH60060FBC
	2	LFH600602	CID	—	—	2.8 N-m (25 in-lbs)	6-14AWG							
	3	LFH600603	CID	—	—									
100	1	LFH601001	CID	—	—	13.6 N-m (120 in-lbs)	2/0-6AWG		CU-AL		130°C	—	•	LFH60100FBC
						4.5 N-m (40 in-lbs)	8 AWG							
	3	LFH601003	CID	—	—	4.0 N-m (35 in-lbs)	10-14 AWG							
200	1	LFH602001	C	—	—	31.1 N-m (275 in-lbs)	250 kcmil-6		CU-AL		130°C	—	—	—
	3	LFH602003	C	—	—									
400	1	LFH604001	C	—	—	31.1 N-m (275 in-lbs)	(2) 350 kcmil-1/0		CU-AL		130°C	—	—	—
	3	LFH604003	C	—	—									
600	1	LFH606001	C	—	—	42.4 N-m (375 in-lbs)	(2) 500 kcmil-4		CU-AL		130°C	—	—	—
	3	LFH606003	C	—	—									

Note: Reinforcing springs standard on all Class H fuse blocks.

Ordering Information (Class R 250 V)

AMP RATING	POLES	ORDERING NUMBER: BASE ORDERING NUMBER	SUFFIX: BOX LUG	SUFFIX: PRESSURE PLATE	SUFFIX: SCREW	TORQUE	TERMINAL	WIRE RANGE	WIRE TYPE		BASE TEMP RATING	SNAP TO RELEASE	INDICATION	COVER ORDERING NUMBER*
30	1	LFR250301	C	P	S	2.8 N-m (25 in-lbs)	C	6-14 AWG	CU Only	Solid/ Stranded	125°C	•	—	LFH25030FBC
	2	LFR250302	C	P	S		P	10-14 AWG						
	3	LFR250303	C	P	S		S	10-22 AWG						
60	1	LFR250601	CID	—	—	5.6 N-m (50 in-lbs)	2-4 AWG		CU-AL		125°C	•	•	LFH25060FBC
	2	LFR250602	CID	—	—	2.8 N-m (25 in-lbs)	6-14 AWG							
	3	LFR250603	CID	—	—									
100	1	LFR251001	CID	—	—	13.6 N-m (120 in-lbs)	2/0-6 AWG		CU-AL		130°C	—	•	LFH25100FBC
						4.5 N-m (40 in-lbs)	8 AWG							
	3	LFR251003	CID	—	—	4.0 N-m (35 in-lbs)	10-14 AWG							
200	1	LFR252001	C	—	—	31.1 N-m (275 in-lbs)	250 kcmil-6		CU-AL		130°C	—	—	—
	3	LFR252003	C	—	—									
400	1	LFR254001	C	—	—	31.1 N-m (275 in-lbs)	(2) 350 kcmil-1/0		CU-AL		130°C	—	—	—
	3	LFR254003	C	—	—									
600	1	LFR256001	C	—	—	42.4 N-m (375 in-lbs)	(2) 500 kcmil-4		CU-AL		130°C	—	—	—
	3	LFR256003	C	—	—									

Note: Reinforcing springs standard on all Class R fuse blocks.

Ordering Information (Class R 600 V)

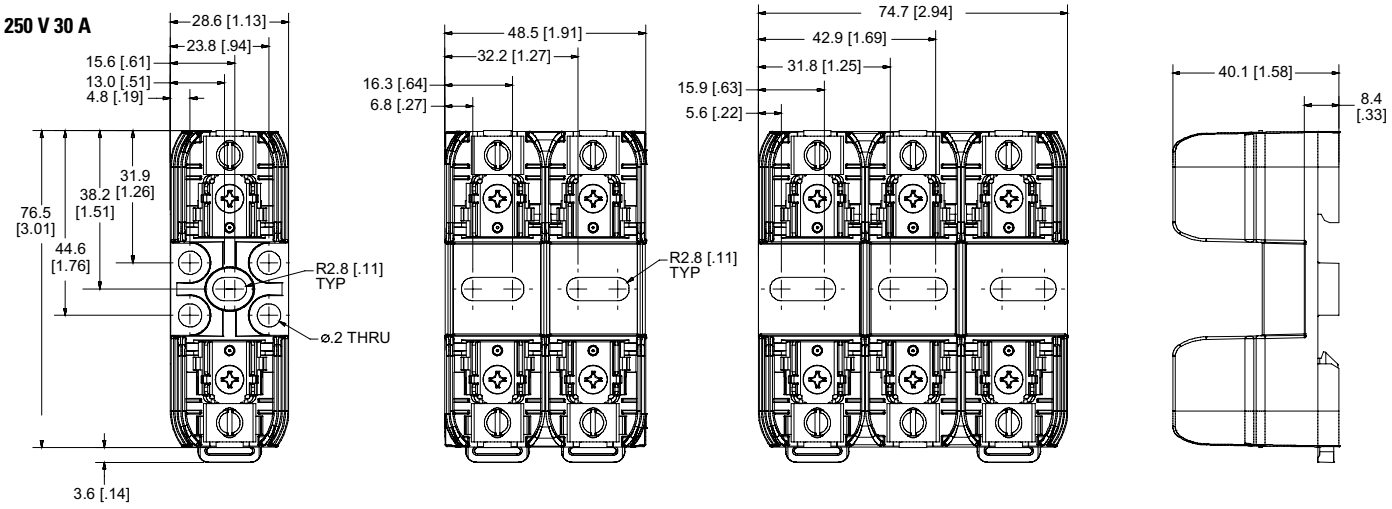
AMP RATING	POLES	ORDERING NUMBER: BASE ORDERING NUMBER	SUFFIX: BOX LUG	SUFFIX: PRESSURE PLATE	SUFFIX: SCREW	TORQUE	TERMINAL	WIRE RANGE	WIRE TYPE		BASE TEMP RATING	SNAP TO RELEASE	INDICATION	COVER ORDERING NUMBER*
30	1	LFR600301	CID	PID	SID	2.8 N-m (25 in-lbs)	C	6-14 AWG	CU Only	Solid/ Stranded	130°C	•	•	LFH60030FBC
	2	LFR600302	CID	PID	SID		P	10-14 AWG						
	3	LFR600303	CID	PID	SID		S	10-22 AWG						
60	1	LFR600601	CID	—	—	5.6 N-m (50 in-lbs)	2-4 AWG		CU-AL		130°C	•	•	LFH60060FBC
	2	LFR600602	CID	—	—	2.8 N-m (25 in-lbs)	6-14 AWG							
	3	LFR600603	CID	—	—									
100	1	LFR601001	CID	—	—	13.6 N-m (120 in-lbs)	2/0-6 AWG		CU-AL		130°C	—	•	LFH60100FBC
				—	—	4.5 N-m (40 in-lbs)	8 AWG							
	3	LFR601003	CID	—	—	4.0 N-m (35 in-lbs)	10-14 AWG							
200	1	LFR602001	C	—	—	31.1 N-m (275 in-lbs)	250 kcmil-6		CU-AL		130°C	—	—	—
	3	LFR602003	C	—	—									
400	1	LFR604001	C	—	—	31.1 N-m (275 in-lbs)	(2) 350 kcmil-1/0		CU-AL		130°C	—	—	—
	3	LFR604003	C	—	—									
600	1	LFR606001	C	—	—	42.4 N-m (375 in-lbs)	(2) 500 kcmil-4		CU-AL		130°C	—	—	—
	3	LFR606003	C	—	—									

Note: Reinforcing springs standard on all Class R fuse blocks.
**Covers sold individually. One cover needed for each pole.*

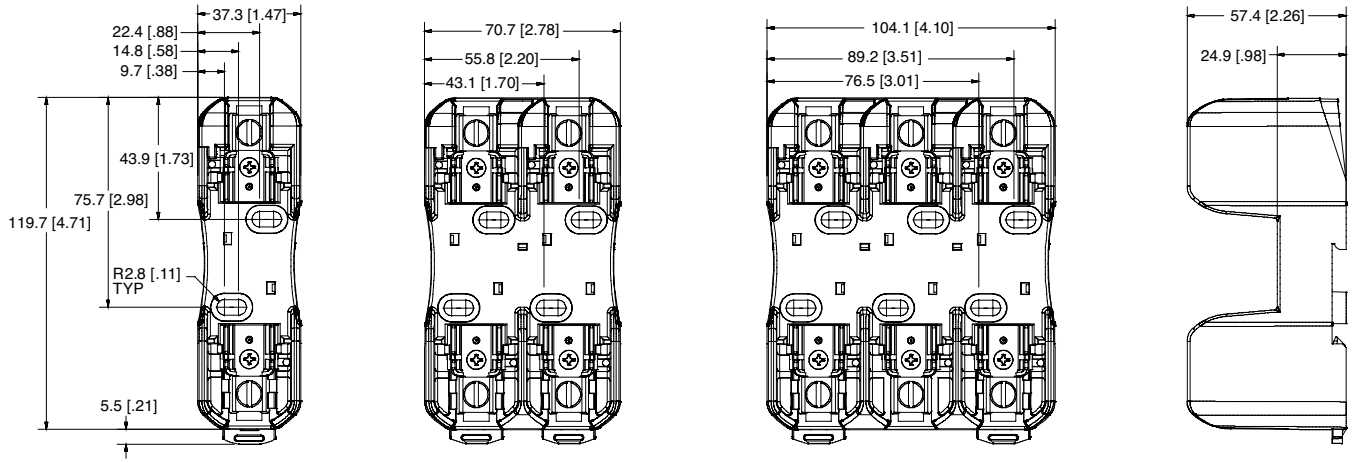
CLASS H/K5 AND R FUSE BLOCKS

Dimensions mm (inches)

250 V 30 A



250 V 60 A



250 V 100 A