

Product Solutions Guide



COMPETITIVE PRICES



LARGE INVENTORIES



LOCAL REP'S



What would you do with more space? That's a great position to be in. Maybe you'll choose a smaller enclosure to realize cost savings. Or use the room to add more features and differentiate your design from the competition.

Either way, you'll appreciate the added value of indication and a modern, clean design that conveys high quality and professionalism to your customers.

The Next Generation of Fuseblocks from Littelfuse

-  Indication Improves Functionality
-  DIN-Rail Mounting Eases Installation
-  Smaller Footprint Provides Space Savings
- A** Available in Classes CC, G, H, J, Midget, R, T



p/n LFR600303SID model shown



An Indication of Forward Thinking



CCMR Series Class CC/CD 600Vac



The CCMR series POWR-PRO® CC fuses are true dual element, time-delay fuses specifically engineered for space-saving motor branch circuit protection. These fuses are recommended for motor circuits up to 40 HP and for general purpose circuits up to 60 amps.

- Time Delay
- Voltage Rating: 600 VAC (contact factory for DC voltages)
- Interrupting Rating: 300,000 AC amperes
- Ampere Range: 1/10 - 60 amperes
- Example part #: (series & amperage) CCMR-15



KLK Fuses • Fast-Acting • 600 VAC



Fast-acting, high-interrupting capacity, current-limiting type fuse. Especially suited for control circuits, street lighting, H.I.D. lighting, computers, and other applications without high in-rush currents.

- Voltage Rating: 600 Volts AC
500 Volts DC
- IR Rating: UL Listed 100,000 amperes rms symmetrical
(Capable of 200,000 amperes)
- Dimensions: 13/32" x 1 1/2"
- Example part #: (series & amperage) KLK-30

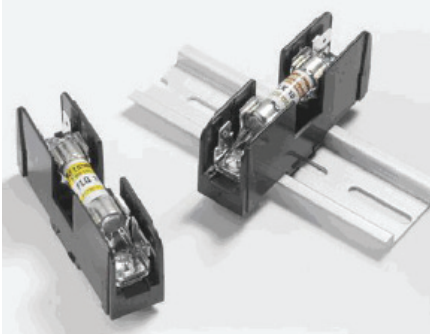


FLM Fuses • Time-Delay • 250 VAC



Use FLM 250 volt time-delay fuses to protect control circuit transformers, solenoids, and other circuits with high in-rush currents. Excellent for supplemental protection of small motors. For motor branch circuit protection, Refer to Class CC fuses.

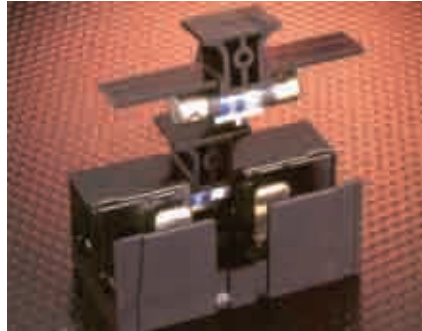
- Voltage Rating: 125 Volts AC
125 Volts DC self-certified @ 10KA
- Interrupting Rating: AC: 10,000 amperes rms symmetrical.
- Dimensions: 13/32" x 1 1/2"
- Example part #: (series & amperage) FLM-15



Class CC & Midget Fuse Blocks

Space saving 600 volt, 30 amp molded case fuse blocks with side barriers for isolation. Class CC blocks and Midget blocks are identical except Class CC blocks incorporate a rejection feature to assure proper fusing. Holders are gangable and can be DIN rail mounted without the use of clips.

Voltage Rating: 600 Volts AC/600 Volts DC
 Ampere ratings:
 L60030C: 30 amps
 L60030M: 30 amps
 L60060C: 60 amps
 Poles: 1, 2, 3,
 Clip/terminals: Tin-plated copper alloy
 Box lug, Screw or terminals available



SPL001 Class CC & Midget Cover/Puller

Littelfuse Class CC and Midget fuse cover puller is designed to provide protection to personnel, as well as make removal of fuses from fuse blocks easy and safe. Once installed on the fuse, the cover puller allows removal of the fuse without the use of a separate puller.

- Meets "Dead Front" requirements for use in control panels.
- Permits safe, easy removal.
- Works with existing fuse block.
 No special hinged fuse blocks are required.
- Easily gangable with 1/8" diameter wire or pin.
- For use with all 600 volt Class CC and Midget 1/10 — 30A fuses.
- Use with Class CC L60030C series and L60030M series fuse blocks.
- Label provided for easy fuse identification.
- For 2-pole cover puller, order DSPL001.



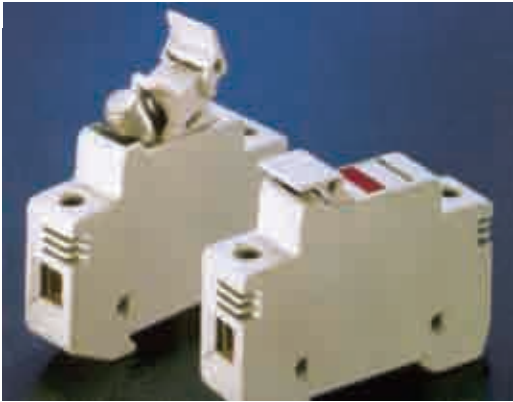
NEW 572 Snap Mount

The New 572 series panel mount fuse holders are designed to minimize installation time. The 572 unique design incorporates a snap-mount feature that allows the holder to be installed without any tools or mounting hardware.

Voltage Rating: 600 Volts
 Ampere Rating: 30 Amperes for Class CC and Midget fuses
 Terminals: Tin-plated brass combination solder and quick-connect
 Molder Parts: Black thermoplastic
 Mounting: Designed to fit 14-18 gauge panels with single or double "D" punch or 0.875" knock-out hole.

- 572 Installs without any tools or fasteners
- For Class CC and Midget fuses
- Watertight Versions Available





Class CC & Midget POWR-SAFE Holders

Littelfuse POWR-SAFE “Dead Front” fuseholders provide optimum protection to personnel. An integral DIN-Rail adapter system allows fuse holders to be mounted on 35mm DIN-Rail without the use of tools or special parts. Indicating and non-indicating versions are available in 1, 2, or 3 poles for Class CC, Midget and Class J fuses.

Indicating	Non-Indicating	Class	Poles	Max Amps
LPSC0001ZXID	LPSC0001Z	Class CC	1 Pole	30A
LPSC0002ZXID	LPSC0002Z		2 Pole	
LPSC0003ZXID	LPSC0003Z		3 Pole	
LPSM0001ZXID	LPSM0001Z	Midget	1 Pole	
LPSM0002ZXID	LPSM0002Z		2 Pole	
LPSM0003ZXID	LPSM0003Z		3 Pole	

Class CC & Midget Holders

No. of Poles	Part No. for Class CC		Part No. for Midget		VAC	Accessories for both Class CC & Midget	
	Non-Ind	Indicating	Non-Ind	Indicating			
1P	31295.000	31298.000	31110.000	31130.000	600V	Neutral pole	31258.000
2P	31296.000	31299.000	31112.000	31132.000	600V	Marking labels	31939.000
3P	31297.000	31300.000	31113.000	31133.000	600V	Ganging kit for 2P	31267.000
1P	-	-	31971.000	31973.000	1000VDC	Ganging kit for 3P	31268.000
		LV Indicating		LV Indicating			
1P	-	31929.000	-	31930.000			

Class J Fuse Holders



Part Number	No. of Poles	Pack Qty	Voltage Rating	Amp Rating	Option
31284.000	1	6	600	30	-
31285.000	2	3	600	30	-
31287.000	3	2	600	30	-
31932.000	1	6	600	30	Indicating
31933.000	2	3	600	30	Indicating
31934.000	3	2	600	30	Indicating
31920.000	1	6	600	60	-
31921.000	2	3	600	60	-
31922.000	3	2	600	60	-
31923.000	1	6	600	60	Indicating
31924.000	2	3	600	60	Indicating
31925.000	3	2	600	60	Indicating
33306.000	3	1	600	100	-
33307.000	3	1	600	200	-
33308.000	3	1	600	400	-



POWR-BLOKS Power Distribution Blocks

POWR-BLOKS power distribution blocks offer a safe, convenient way of splicing cables, providing a fixed junction tap-off point or splitting primary power into secondary circuits. LD2570-DIN series offers integral DIN-Rail mount and an optional hinged safety cover.

Typical applications include heating, air conditioning and refrigeration systems, elevator systems, material handling equipment, control panels, motor controls, switchgear, and anywhere power needs to be distributed to more than one load.

Vac & Amps	No. of Poles	Part Number	Connector type	Max. wire size	Covers
600V 175A	1	LD2570-1DIN	Box Lug	1 in 2/O-#14 4 out #4 - #14	LCH132-1
	2	LD2570-2DIN			LCH132-2
	3	LD2570-3DIN			LCH132-3



Modular Fuse Blocks



Modular-designed fuse blocks are designed to accommodate a wide range of fuses up to a maximum diameter of 3". This modular design greatly reduces inventory requirements. They are sold in pairs and are constructed of molded phenolic, with plated steel studs.

LSCR001

Accepts fuses 1" diameter or less at 600V
Also accepts 13/16 diameter fuses at 700-1000V
Amp Rating: 1 - 400A
Stud Size: 1/4 - 20 thread

LSCR002

Accepts fuses up to 3" diameter or less at 1000V
Amp Rating: 70 - 800A
Stud Size: 3/8 - 16 thread



N.A. Semiconductor Fuse

Semiconductor fuses are designed specifically for supplementary protection of semiconducting devices such as silicon controlled rectifiers (SCR's), diodes, thyristors, triacs, transistors, and similar solid-state devices. May be used where ever extremely fast acting, current-limiting fuses with no time-delay are required.

Ratings

150V: 1 – 6000A	600V: 1 – 2000A
250V: 1 – 800A	700V: 6 – 800A
300V: 35 – 4500A	1000V: 15 – 1000A
500V: 10 – 1200A	



Recommended Fuse Blocks: LSCR and 1LS series:



3AG / 312 Fast Acting

Designed for fast acting protection of electronic equipment and appliances. The "standard" fast acting, glass tube fuse.

Voltage Rating: 250V: 1/100 – 10A.
32V: 12 – 35A.

Dimensions: 1/4" x 1 1/4" (6.3mmx32mm)



3AG / 313 Slo-Blo

313 series fuses have time-delay in the overload range, which provides superior protection for inductive loads such as motors, transformers, and solenoids.

Voltage Rating: 250V: 1/100 – 8A.
32V: 10 – 30A.

Dimensions: 1/4" x 1 1/4" (6.3mmx32mm)



5x20mm / 217 Fast Acting

Fast-acting protection of electronic equipment and appliances when fuses to International Standards are required. Replacement fuse for foreign equipment.

Voltage Rating: 250V AC
Dimensions: 5mm x 20mm

Design Standards: Meets IEC 60127-2, Sheet 2 Specification for Fast Acting Fuses.



5x20mm / 218 Slo-Blo

Time-delay protection of electronic equipment and appliances when fuses to International Standards are required. Replacement fuses for foreign equipment.

Voltage Rating: 250V AC
Dimensions: 5mm x 20mm

Design Standards: Meets IEC 60127-2, Sheet 3 Specification for Time Lag Fuses



3AG Shock-Safe Panel Fuseholders

Designed to eliminate the possibility of electrical shock, as defined in IEC standards 65 and 257. Shock-Safe fuseholders feature a low profile body, finger-grip knob and anti-tease feature that eliminates circuit interruption when knob is accidentally depressed.

Voltage Rating: 250V.



3AG Shock-Safe Panel Fuseholders

A low profile fuse block featuring individual barriers which reinforce the fuse clips while providing greater protection against clip damage and electrical shock. The unique design permits self-alignment of clips to fuse cap. This, plus a one-piece clip/terminal assures low contact resistance. Higher current ratings have been attained using spring brass clips. With the exception of the two-pole unit, multiple pole units may be broken apart to obtain desired number of poles.



22mm 'LEDtec' LED pilot lights

The last pilot light you will ever replace. 100,000 hours, super bright, power saving and immune to heat and vibration.

Extremely competitive pricing!

Available in 12vac/dc, 24vac/dc, 48vac/dc, 110/120vac, 110/120vdc, 230Vac

Colours: Red, Green, Amber, Blue, White

Sample Part Number: LEDTECR110/120Vac

- Very bright Multi Chip LED bulb
- Direct wire to integral rear terminals
- 1 piece design - one part number
- Standard 22mm format
- Shock resistant
- Oil and dust tight



Going from 30mm to 22mm takes only a few seconds with the BCR-AX adapter ring.

- Steel plated backing ring with anti-rotation notch
- Fits panel thickness up to 14 gauge
- No tools required
- Available in black plastic.



BA9S LED replacement bulbs

BA9S LED's are high brightness LED bulbs with industry standard BA9S bayonet bases. They will fit into any standard 22mm or 30mm pilot light that accepts BA9S bulbs. Their solid state design and long life makes incandescent bulbs a thing of the past. LED BA9s are available in industry standard colors and voltage ratings and allows LED upgrade from the front of the panel without having to open the door.

Catalogue number example

BA9SLED

BA9SLED Series

120

6Vac/dc
12Vac/dc
24Vac/dc
48Vac/dc
120Vac/dc
220Vac/dc

R

R=Red
G=Green
A=Amber
B=Blue
W=White

- High brightness single LED chip
- Flat top provides superior light dispersion.
- Will fit most pilot lights and illuminated devices.
- Low energy consumption (<20ma)
- Cooler operation. Give's off less heat.
- Reduced maintenance costs.
- Long Life (excess of 100,000 hours)
- Immune to vibration



JTECUL



JTEC489



Thermal/Magnetic Circuit Breakers

Techna

Their compact dimensions, ease of mounting and excellent performance make them ideal for the overload and short circuit protection of control components and associated wiring. Their current limiting design and high interrupt/voltage ratings make them vastly superior to residential or 'push-to-reset' MCBs. They are available in Supplementary (JTECUL) or Branch rated (JTEC489) versions in 1, 2 and 3 pole units, and offer industry standard trip curves. (B,C,D and K). Amp ratings available are 1/2A – 63A in both versions.

Features and benefits common to both

- Current and energy limiting design reduces damage caused by short circuits.
- Higher voltage and amp ratings allow design flexibility.
- Dual DIN rail mount feature makes replacement easier in tight spaces.
- Optical indicator window shows contact status independent of toggle position.
- Can be reverse fed if toggle has to be oriented in a specific direction in a panel.
- DC versions are available up to 125VDC (1P) or 250VDC (2P in series)
- Extra set of terminal screws for easy power pickup points or optional busbar feature.
- Terminal screws are recessed to provide 'finger safe' protection.
- Full range of accessories available.

JTEC Accessories

- Auxiliary Contacts
- Shunt trip
- Neutral pole
- Undervoltage release
- Safety lockout device
- Busbar
- Busbar connector terminal.
- Busbar cut end-cap.
- Front Mount Panel Adapter
- Panel mount adapter clip.



For further information on the above product request TECHNICAL Catalogue TECH200

Let **IBOCO** “Think inside the box” for you.

We think “Inside the box” in order to bring you panel management technologies that let you build controls systems faster, more neatly, and more efficiently. Using IBOCO duct can earn you more money on every panel you build with out charging more!



Dinosaur Flexible Duct

Dinosaur Duct is a unique product offering from IBOCO that is a flexible, resilient and efficient harnessing solution to your bundling needs. For wiring to cabinet doors, from control panels and for electronic equipment.



T1 & T1E Series

- 4 Styles of Duct
- 35 duct sizes
- 40+ components & Accessories
- No cover charge. Each length comes with cover.
- 2 meter length invoiced at 6 feet. Thats an extra 9% of duct free!
- Available in white, grey, blue and black



Spiralite Wraps

- Available in 4 sizes.
- Natural / White
- Polyethylene Natural (P)
- Polyethylene self-extinguishing (PA)

I-Flex liquid-tight flexible tubing

Available in light grey or black.
IP-65 Rating



Braided Sleeving

Available in 5 sizes.

CL Wire Retainers

Retains wires during installation. Provides additional strain relief of fingers. Eliminates bulging against sidewall.



Cable mounts that **STICK!**

Part Number	Pack Qty*
ICM-75	100
ICM-100	100

ZP1

ZP1 is used to mount componenets and SEP-E separators inside duct. Also ZP1 can be used to mount smaller sizes of duct inside larger sizes

ZP2

ZP2 can be mounted inside duct. By stacking, mounting levels at different heights are achieved. For tightening a wire bundle inside duct, pass a cable tie through ZP2.



Cable Ties



AVAILABLE MAINTENANCE KITS



				Ea.					Ea.
FLNR	250Vac Time Delay	5, 10, 15, 20, 25, 30A	5	BA9SLED	120Vac/dc	R, G, A		10	
FLNR-id	250Vac Time Delay	40, 50, 60A	5	BA9SLED	120Vac/dc	W, B		5	
FLNR-100id	250Vac Time Delay	100A	3	BA9SLED	24Vac/dc	R, G, A		10	
LRU-263R	Fuse Reducer	250Vac Class R 60-0Amp	1	BA9SLED	24Vac/dc	W, B		5	
LPFP	Fuse Puller 9/16" - 1-9/32" Dia.			1	R=RED, W=White, B=Blue, G=Green, A=Amber				

* 5 - 30Amp are NON Indicating.

P/N - MTCE-R600

Class RK5	Description	Fuse Amps	Qty Ea.	
FLSR-id	600Vac Time Delay	10, 15, 20, 30A	5	
		60, 100A	3	
LRU-663R	Fuse reducer	600V Class R 60-0Amp	1	
LPFP	Fuse Puller 9/16" - 1-9/32" Dia.			1

MTCE-LEDTEC

22MM Pilot Lights	Description	Colour	Qty Ea.
LEDTEC	110/120Vac	R, W, B, G, A	5
LEDTEC	24VAC/DC	R, W, B, G, A	5
BCR-AX	30mm - 22mm Adapter ring		5
R=RED, W=White, B=Blue, G=Green, A=Amber			

P/N -MTCE-J

Class J T/D	Description	Fuse Amps	Qty Ea.	
JTD-id	600 ac Time Delay	10, 15, 20, 30, 40, 50,60A	5	
		80, 100A	3	
LRUJ63	Fuse Reducer	600Vac Class J 60-30A	3	
LPFP	Fuse Puller 9/16" - 1-9/32" Dia.			1

P/N MTCE-CC

Class CC	Description	Fuse Amps	Qty Ea.
CCMR	600Vac Time Delay	0.5, 1, 3, 5, 10, 15, 0,30A	5
KLKR	600Vac Fast Acting	5, 10, 15, 20, 30A	5
MFP	Fuse Puller 3/16" - 1/2" Dia.		1
Free Fuse Puller included in Kit.			

P/N - MTCE-GLASS

1/4 X 1-1/4"	Description	Fuse Amps	Qty Ea.
312 (GLASS)	250Vac Fast Acting	0.25, 0.5, 0.75, 1, 1.5, 2, 3, 4, 5, 6, 8, 10A	5
314 (Ceramic)	250Vac Fast Acting	15, 20, 30A	5
313 (Glass)	250Vac Slo-Blo	0.5, 0.75, 1, 1.5, 2, 3, 4, 5, 6.25, 8A	5
326 (Glass)	250Vac Slo-Blo	10, 15, 20, 25, 30A	5

5 x 20mm

217 (Glass)	250Vac Fast Acting	0.25, 0.5, 1, 1.6, 2, 2.5, 3.15, 4, 5, 6.3, 8, 10A	5
218 (Glass)	250Vac Slo-Blo	0.5, 1, 2, 3.15, 4, 5, 6.3, 10A	5

Fuse Holders

345-3LF8	Straight 1/4" Nema Q.C 3AB Panel Mount 250V / 20A	5
150-079	19" inline fuse holder for 1/4" x 1.25" 32 V/ 20A	2
150-274	1P,10A/32V for 5x20mm	2
354-901GY	1P, 30A/300V 1/4"Nema for 1/4"x1.1/4"	5
CQ213	Fuse Puller 5x20mm, 1/4 - 1-1/4" & Auto fuse	1

Free Fuse Puller included in Kit

Every fuse kit comes packed with all the right fuses so your never get caught short.

OEM

Product Solutions Guide

2 0 1 1

POWR-PRO Series

Class J 600 Volt
Class RK1 600 Volt
Class RK5 250 & 600 volt

The Indicator **The Right Fuse..**

- Add hours to your plants uptime
- Reduce skews by 50%
- Reduce nuisance openings without sacrificing protection.
- Add years to your equipments life
- Prevent accidents, Reduce Liabilities and Increase Safety.

Available from:



Head Office

**599 Norris Court
Kingston, On. K7P2R9**

**Toll Free T: 800-479-3875
Toll free F: 800-866-7690
Intl T: 613-384-4144
Intl F: 613-384-0167
E: info@fusetek.com
W: www.fusetek.com**