Medium Voltage Fuses

2400 - 25,500 VAC ■ Current Limiting

Littelfuse
POWR-GARD™ Products

Littelfuse now offers a complete selection of “E” and “R” rated medium voltage fuses for the protection of transformers, potential transformers, feeders, and motor circuits. Single, double, and triple barrel designs are available to cover a wide range of current, voltage, and interrupting ratings. Conventional ferrule type, clip lock, and bolt-in mounting configurations are now available for virtually any application. Hermetically sealed fuses for use in hazardous environments are also offered.

Contact the factory or your local Littelfuse representative for additional fuse ratings or custom mounting configurations.

24 Hour Emergency Service is available.
Call 1-800-227-0029.

APPLICATIONS

- Power Transformer Protection
- Potential Transformer Protection
- Motor Controller Back-up Protection
- Fused Switches
- Feeder Circuits

Current limiting “E” and “R” rated fuses are equipped with a mechanical indicator or striker pin that protrudes through the fuse cap upon operation of the fuse. This provides visual identification of a blown fuse and can be used as a trigger for external devices.

GENERAL INFORMATION

The terms “Medium Voltage” and “high voltage” have been used interchangeably by many people to describe fuses operating above 600 volts. Technically speaking, “medium voltage” fuses are those intended for the voltage range from 2,400 to 38,000 VAC. “High voltage fuses are for circuits carrying voltages greater than 38,000 VAC.

“E” Rated fuses are considered to be general purpose fuses and can be used to protect against low and high values of fault current. “R” rated fuses are designed for back-up protection. They must be used in series with other devices, such as motor overload relays, in order to achieve both overload and short circuit protection.

Medium voltage fuses are not intended to provide overload protection in the same sense as fuses rated 600 volts or less. Medium voltage fuse current ratings do not have the same meanings as the ampere ratings of low voltage fuses.

All medium voltage fuses are limited in their ability to interrupt low value overcurrents, especially those between 100% and 200% of the fuse’s continuous current rating. They are designed to carry their rated current without exceeding the temperature rise permitted by NEMA and ANSI standards.

Additional application data can be found in the Fuse Application section of the POWR-GARD Products catalog (PF101).

Bolt-in Mount Fuses

R Rated Medium Voltage Fuses

Current Limiting

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FEATURES

"R" rated fuses provide required short-circuit protection for medium voltage motors, motor controllers and associated circuitry. These components have limited ability to absorb the energy of large short circuit currents. Medium voltage motor controllers contain overload relays which provide both overload protection and locked rotor protection to the motor. The controllers are also intended to interrupt low value short circuits within the capability of the motor controller. This protects the medium voltage fuse from sustained overcurrents which are less than their minimum interrupting rating.

NEMA Standards for "R" rated medium voltage power fuses require that they operate within 15-35 seconds when subjected to an rms current 100 times the "R" rating. For example, a fuse with a 2R rating will open within 15 to 35 seconds on an applied current of 2 x 100 = 200 amperes.

Part Number System

130 - 4R - 1C - 5.5

- 130 — Continuous Current
- 4R — Rating (size)
- 1C — No. of Barrels
- C — Style (C-Cartridge)
- 5.5 — Max Voltage (KV)

CHARACTERISTICS

Voltage Rating: 2,400 volts – 15,500 volts

Current Range: 2R – 36R

OPTIONS

- Hermitically sealed for use in hazardous locations (add "S" suffix to part number)
- Hookeye attachment (add "W" suffix to part number)
- Bolt-in mounting configurations

Hookeye Feature*

*For hookeye attachment; add "W" suffix to part number

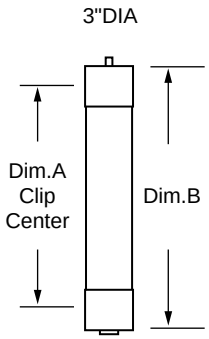

FIGURE 1

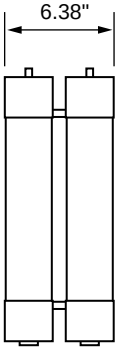

FIGURE 2

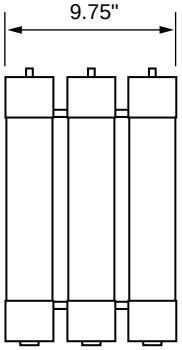

FIGURE 3

R RATED	Catalog Number	Old Catalog Number	Size	Maximum Continuous Current @ 40 deg C.	Dim. A (inches)	Dim. B (inches)	Minimum Interrupting Rating RMS Amps	Max Interrupting Rating RMS Asym	Figure Number
2.75 KV	70-2R-1C-2.75	LCK 2R	2R	70	7"	10.875"	170	80,000	1
	100-3R-1C-2.75	LCK 3R	3R	100			250	80,000	1
	130-4R-1C-2.75	LCK 4R	4R	130			340	80,000	1
	150-5R-1C-2.75	LCK 5R	5R	150			390	80,000	1
	170-6R-1C-2.75	LCK 6R	6R	170			500	80,000	1
	200-9R-1C-2.75	LCK 9R	9R	200			760	80,000	1
	230-12R-1C-2.75	LCK 12R	12R	230			1000	80,000	1
	390-18R-2C-2.75	LCK 18R	18R	390	7"	10.875"	1500	80,000	2
	450-24R-2C-2.75	LCK 24R	24R	450			1950	80,000	2

Add "w" suffix to part number for hookeye attachment.

R Rated Medium Voltage Fuses

Current Limiting

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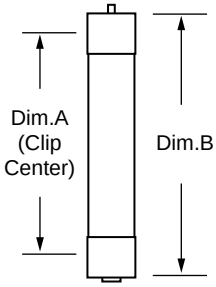

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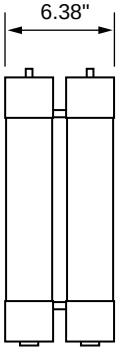


FIGURE 5

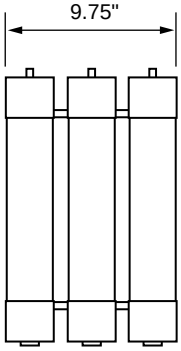


FIGURE 6

R RATED	Catalog Number	Old Catalog Number	Size	Maximum Continuous Current @ 40 deg C.	Dim. A (inches)	Dim. B (inches)	Minimum Interrupting Rating RMS Amps	Max Interrupting Rating RMS (Asym)	Figure Number
5.5 KV	70-2R-1C-5.5	LCL 2R	2R	70			170	80,000	4
	100-3R-1C-5.5	LCL 3R	3R	100			250	80,000	4
	130-4R-1C-5.5	LCL 4R	4R	130			340	80,000	4
	150-5R-1C-5.5	LCL 5R	5R	150	12"	15.875"	390	80,000	4
	170-6R-1C-5.5	LCL 6R	6R	170			500	80,000	4
	200-9R-1C-5.5	LCL 9R	9R	200			760	80,000	4
	230-12R-1C-5.5	LCL 12R	12R	230			1000	80,000	4
	390-18R-2C-5.5	LCL 18R	18R	390			1500	80,000	5
	450-24R-2C-5.5	LCL 24R	24R	450			1950	80,000	5
	480-26R-2C-5.5	—	26R	480	12"	15.875"	2100	80,000	5
	550-30R-2C-5.5	—	30R	550			2400	80,000	5
	600-32R-2C-5.5	—	32R	600			2600	80,000	5
	650-36R-2C-5.5	—	36R	650			2900	80,000	5
	550-30R-3C-5.5	—	30R	550			2400	80,000	6
	600-32R-3C-5.5	—	32R	600	12"	15.875"	2600	80,000	6
	650-36R-3C-5.5	LCL 36R	36R	650			2900	80,000	6
5.5 KV 14"Clip Centers	70-2R-1C-5.5X	—	2R	70			170	80,000	4
	100-3R-1C-5.5X	—	3R	100			250	80,000	4
	130-4R-1C-5.5X	—	4R	130			340	80,000	4
	150-5R-1C-5.5X	—	5R	150	14"	17.875"	390	80,000	4
	170-6R-1C-5.5X	—	6R	170			500	80,000	4
	200-9R-1C-5.5X	—	9R	200			760	80,000	4
	230-12R-1C-5.5X	—	12R	230			1000	80,000	4
	390-18R-2C-5.5X	—	18R	390			1500	80,000	5
	450-24R-2C-5.5X	—	24R	450	14"	17.875"	1950	80,000	5

R RATED	Catalog Number	Old Catalog Number	Size	Maximum Continuous Current @ 40 deg C.	Dim. A (inches)	Dim. B (inches)	Minimum Interrupting Rating RMS Amps	Max Interrupting Rating RMS (Asym)	Figure Number
8.25 KV	70-2R-1C-8.25	—	2R	70			190	80,000	4
	100-3R-1C-8.25	—	3R	100			225	80,000	4
	130-4R-1C-8.25	—	4R	130			330	80,000	4
	150-5R-1C-8.25	—	5R	150	12"	15.875"	440	80,000	4
	170-6R-1C-8.25	—	6R	170			500	80,000	4
	200-9R-1C-8.25	—	9R	200			740	80,000	4
	230-12R-1C-8.25	—	12R	230			955	80,000	4
	390-18R-2C-8.25	—	18R	390			1440	80,000	5
	450-24R-2C-8.25	—	24R	450	12"	15.875"	1910	80,000	5

Add “w” suffix to part number for hookeye attachment.

R Rated Medium Voltage Fuses

Current Limiting

Littelfuse POWR-GARD™ Products

Littelfuse's POWR-GARD medium voltage fuses are available in several bolt-in mounting configurations. Contact factory for custom configurations

"B" Bolt mount
"BI" Bolt-In mount
"IB" Inverted-Bolt mount

Refer to illustrations for mounting dimensions.

Medium Voltage Fuses

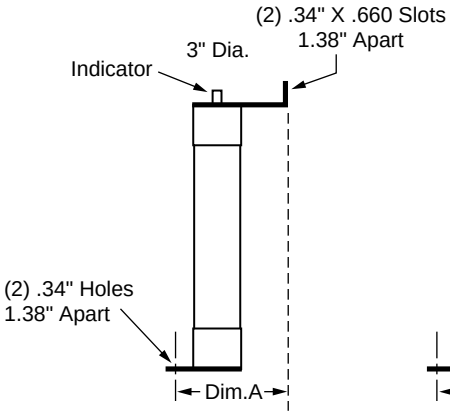


FIGURE 7

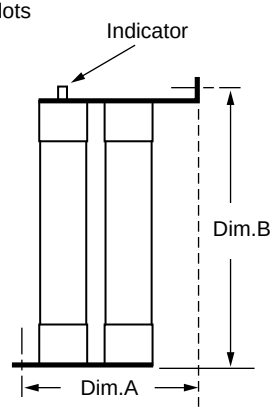


FIGURE 8

Bolt Mount "B"

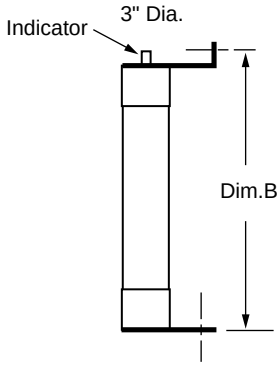


FIGURE 9

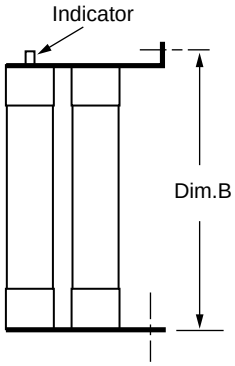


FIGURE 10

Inverted Bolt "IB"

R RATED	Catalog Number	Old Catalog Number	Size	Maximum Continuous Current @ 40 deg C.	Dim. A (inches)	Dim. B (inches)	Minimum Interrupting Rating RMS Amps	Max Interrupting Rating RMS (Asym)	Figure Number
2.75 KV Bolt Mount "B"	70-2R-1B-2.75	—	2R	70	4.6"	13"	170	80,000	7
	100-3R-1B-2.75		3R	100			250	80,000	7
	130-4R-1B-2.75		4R	130			240	80,000	7
	150-5R-1B-2.75		5R	150			390	80,000	7
	170-6R-1B-2.75		6R	170			500	80,000	7
	200-9R-1B-2.75		9R	200			760	80,000	7
	230-12R-1B-2.75		12R	230			1000	80,000	7
	390-18R-2B-2.75	—	18R	390	7.4"	13"	1500	80,000	8
	450-24R-2B-2.75		24R	450			1950	80,000	8
2.75 KV Inverted Bolt "IB"	70-2R-1IB-2.75	—	2R	70	—	13"	170	80,000	9
	100-3R-1IB-2.75		3R	100			250	80,000	9
	130-4R-1IB-2.75		4R	130			340	80,000	9
	150-5R-1IB-2.75		5R	150			390	80,000	9
	170-6R-1IB-2.75		6R	170			500	80,000	9
	200-9R-1IB-2.75		9R	200			760	80,000	9
	230-12R-1IB-2.75		12R	230			1000	80,000	9
	390-18R-2IB-2.75	—	18R	390	—	13"	1500	80,000	10
	450-24R-2IB-2.75		24R	450			1950	80,000	10

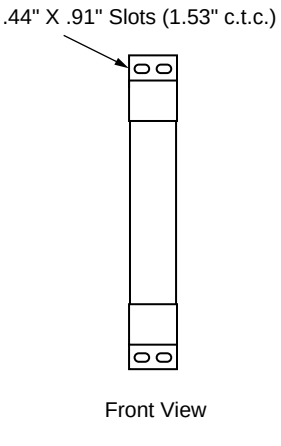


FIGURE 11

FIGURE 12

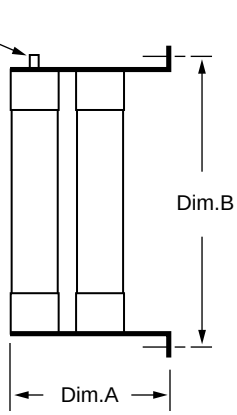
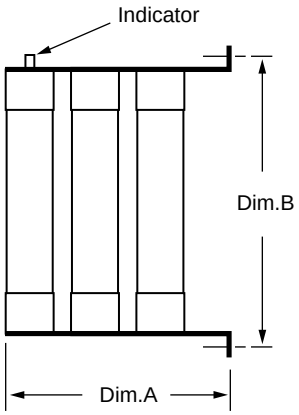


FIGURE 13



Bolt-In Mount "BI"

R RATED	Catalog Number	Old Catalog Number	Size	Maximum Continuous Current @ 40 deg C.	Dim. A (inches)	Dim. B (inches)	Minimum Interrupting Rating RMS Amps	Max Interrupting Rating RMS (Asym)	Figure Number
5.5 KV Bolt In Mount "BI"	70-2R-1BI-5.5	—	2R	70	3.6	18"	170	80,000	11
	100-3R-1BI-5.5		3R	100			250	80,000	11
	130-4R-1BI-5.5		4R	130			340	80,000	11
	150-5R-1BI-5.5		5R	150			390	80,000	11
	170-6R-1BI-5.5		6R	170			500	80,000	11
	200-9R-1BI-5.5		9R	200			760	80,000	11
	230-12R-1BI-5.5		12R	230			1000	80,000	11
	390-18R-2BI-5.5	—	18R	390	7.6	18"	1500	80,000	12
	450-24R-2BI-5.5		24R	450			1950	80,000	12
	480-26R-2BI-5.5		26R	480			2200	80,000	12
	550-30R-2BI-5.5		30R	550			2400	80,000	12
	600-32R-2BI-5.5		32R	600			2650	80,000	12
	650-36R-2BI-5.5		36R	650			2900	80,000	12
	550-30R-3BI-5.5	—	30R	550		18"		80,000	13
	600-32R-3BI-5.5		32R	600				80,000	13
	650-36R-3BI-5.5		36R	650				80,000	13
	700-38R-3BI-5.5		38R	700				80,000	13
5.5 KV Bolt Mount "B"	70-2R-1B-5.5	—	2R	70	4.6	18"	170	80,000	7
	100-3R-1B-5.5		3R	100			250	80,000	7
	130-4R-1B-5.5		4R	130			340	80,000	7
	150-5R-1B-5.5		5R	150			390	80,000	7
	170-6R-1B-5.5		6R	170			500	80,000	7
	200-9R-1B-5.5		9R	200			760	80,000	7
	230-12R-1B-5.5		12R	230			1000	80,000	7
	390-18R-2B-5.5	—	18R	390	7.4	18"	1500	80,000	8
	450-24R-2B-5.5		24R	450			1950	80,000	8
	550-30R-2B-5.5		30R	550			2400	80,000	8
	600-32R-2B-5.5		32R	600	8.4		2650	80,000	8
	650-36R-2B-5.5		36R	650			2900	80,000	8
5.5 KV Inverted Bolt "IB"	70-2R-1IB-5.5	—	2R	70	—	18"	170	80,000	9
	100-3R-1IB-5.5		3R	100			250	80,000	9
	130-4R-1IB-5.5		4R	130			340	80,000	9
	150-5R-1IB-5.5		5R	150			390	80,000	9
	170-6R-1IB-5.5		6R	170			500	80,000	9
	200-9R-1IB-5.5		9R	200			760	80,000	9
	230-12R-1IB-5.5		12R	230			1000	80,000	9
	390-18R-2IB-5.5	—	18R	390	—	18"	1500	80,000	10
	450-24R-2IB-5.5		24R	450			1950	80,000	10
	550-30R-2IB-5.5		30R	550			2400	80,000	10
	600-32R-2IB-5.5		32R	600			2650	80,000	10
	650-36R-2IB-5.5		36R	650			2900	80,000	10
8.25 KV Bolt-In Mount "BI"	70-2R-1BI-8.25	—	2R	70	3.6	18"	190	80,000	11
	100-3R-1BI-8.25		3R	100			225	80,000	11
	130-4R-1BI-8.25		4R	130			330	80,000	11
	150-5R-1BI-8.25		5R	150			400	80,000	11
	170-6R-1BI-8.25		6R	170			500	80,000	11
	200-9R-1BI-8.25		9R	200			740	80,000	11
	230-12R-1BI-8.25		12R	230			955	80,000	11
	390-18R-2BI-8.25	—	18R	390	7.6	18"	1440	80,000	12
	450-24R-2BI-8.25		24R	450			1910	80,000	12

E Rated Medium Voltage Fuses

Current Limiting

Littelfuse POWR-GARD™ Products

"E" Rated fuses have time current characteristics designed to provide current limiting protection for power transformers, potential transformers, power centers, feeder centers, and unit sub stations. When properly applied, they can protect against high and low value fault currents.

NEMA Standards for "E" rated medium voltage fuses require that fuses rated 100E or less open within 300 seconds (5 minutes) when subjected to an RMS value of 200-240% of the fuse's continuous current rating; and fuses with an "E" rating larger than 100E must open within 600 seconds (10 minutes) when subjected to an rms current of 220-240% of the fuse's continuous current rating. These values establish one point on the time-current curve.

Application Note:
Since these fuses are used for the protection of general purpose circuits which may contain transformers, motors, and other equipment producing inrush and/or overload currents, fuses should generally be rated at 140% of the normal full load current, and circuits should be analyzed to ensure that system load currents will not exceed the current rating of the fuse.

CHARACTERISTICS

Voltage Rating: 2,400 volts – 38,000 volts

Current Range: 10E – 600E

OPTIONS

- Hermetically Sealed for use in hazardous locations (add "S" suffix to part number)
- Clip-lock (CL) and bolt-in styles available.

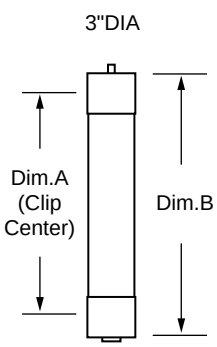


FIGURE 14

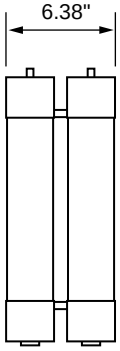


FIGURE 15

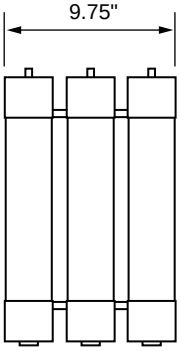


FIGURE 16

E RATED	Catalog Number	Old Catalog Number	Size	Dim. A (inches)	Dim. B (inches)	Max Interrupting Rating RMS (Asym)	Figure Number
2.75 Max. KV	10E-1C-2.75	LCX 10E	10E	7"	10.875"	80,000	14
	15E-1C-2.75	—	15E				14
	20E-1C-2.75	—	20E				14
	25E-1C-2.75	—	25E				14
	30E-1C-2.75	LCX 30E	30E				14
	40E-1C-2.75	LCX 40E	40E				14
	50E-1C-2.75	LCX 50E	50E				14
	65E-1C-2.75	LCX 65E	65E				14
	80E-1C-2.75	LCX 80E	80E				14
	100E-1C-2.75	LCX 100E	100E				14
	125E-1C-2.75	—	125E				14
	150E-1C-2.75	—	150E				14
	200E-1C-2.75	—	200E				14
	125E-2C-2.75	LCX 125E	125E	7"	10.875"	80,000	15
	150E-2C-2.75	LCX 150E	150E				15
	175E-2C-2.75	LCX 175E	175E				15
	200E-2C-2.75	LCX 200E	200E				15
	225E-2C-2.75		225E				15
	250E-2C-2.75	LCX 250E	250E				15
	300E-2C-2.75	LCX 300E	300E				15
	350E-2C-2.75		350E				15
	400E-2C-2.75	LCX 400E	400E				15
	450E-2C-2.75	—	450E				15

E Rated Medium Voltage Fuses

Current Limiting

Littelfuse POWR-GARD™ Products

E RATED	Catalog Number	Old Catalog Number	Size	Dim. A (inches)	Dim. B (inches)	Max Interrupting Rating RMS (Asym)	Diagram
5.5 Max. KV	10E-1C-5.5	—	10E	12"	15.875"	80,000	14
	15E-1C-5.5	—	15E				14
	20E-1C-5.5	—	20E				14
	25E-1C-5.5	—	25E				14
	30E-1C-5.5	LCY 30E	30E				14
	40E-1C-5.5	LCY 40E	40E				14
	50E-1C-5.5	LCY 50E	50E				14
	65E-1C-5.5	LCY 60E	65E				14
	80E-1C-5.5	LCY 80E	80E				14
	100E-1C-5.5	LCY 100E	100E				14
	125E-1C-5.5	LCY 125E	125E				14
	150E-1C-5.5	LCY 150E	150E				14
	175E-1C-5.5	LCY 175E	175E				14
	200E-1C-5.5	LCY 200E	200E				14
	125E-2C-5.5	—	125E	12"	15.875"	80,000	15
	150E-2C-5.5	—	150E				15
	175E-2C-5.5	—	175E				15
	200E-2C-5.5	—	200E				15
	250E-2C-5.5	LCY 250E	250E				15
	300E-2C-5.5	LCY 300E	300E				15
	350E-2C-5.5	LCY 350E	350E				15
	400E-2C-5.5	LCY 400E	400E				15
	450E-2C-5.5	LCY 450E	450E				15
	500E-3C-5.5	—	500E	12"	15.875"	80,000	16
	550E-3C-5.5	—	550E				16
	600E-3C-5.5	—	660E				16
5.5 Max. KV	5NLE-10E		10E	14	17-7/8"	80,000	14
	5NLE-15E		15E				14
	5NLE-20E		20E				14
	5NLE-25E		25E				14
	5NLE-30E	LCU 30E	30E				14
	5NLE-40E	LCU 40E	40E				14
	5NLE-50E	LCU 50E	50E				14
	5NLE-65E	LCU 65E	65E				14
	5NLE-80E	LCU 80E	80E				14
	5NLE-100E	LCU 100E	100E				14
	5NLE-125E	LCU 125E	125E				14
	5NLE-150E	LCU 150E	150E				14
	5NLE-175E	LCU 175E	175E				14
	5NLE-200E	LCU 200E	200E				14
	5NLE2-225E		225E	14"	17-7/8"	80,000	15
	5NLE2-250E	LCU 250E	250E				15
	5NLE2-300E	LCU 300E	300E				15
	5NLE2-350E	LCU 350E	350E				15
	5NLE2-400E	LCU 400E	400E				15
	5NLE2-450E	LCU 450E	450E				15

E Rated Medium Voltage Fuses

Current Limiting

Littelfuse POWR-GARD™ Products

RATED	Catalog Number	Old Catalog Number	Size	Dim. A (inches)	Dim. B (inches)	Max Interrupting Rating RMS (Asym)	Diagram
8.25 Max. KV	10E-1C-8.25		10E	12"	15-7/8"	80,000	14
	15E-1C-8.25		15E				14
	20E-1C-8.25		20E				14
	25E-1C-8.25		25E				14
	30E-1C-8.25	LDZ 30E	30E				14
	40E-1C-8.25	LDZ 40E	40E				14
	50E-1C-8.25	LDZ 50E	50E				14
	65E-1C-8.25	LDZ 65E	65E				14
	80E-1C-8.25	LDZ 80E	80E				14
	100E-1C-8.25	LDZ 100E	100E				14
	125E-1C-8.25	LDZ 125E	125E				14
	150E-1C-8.25	LDZ 150E	150E				14
	125E-2C-8.25	LDZ 125E	125E	12"	15-7/8"	80,000	15
	150E-2C-8.25	LDZ 150E	150E				15
	200E-2C-8.25	LDZ 200E	200E				15
	250E-2C-8.25	LDZ 250E	250E				15
	300E-2C-8.25	LDZ 300E	300E				15
	350E-3C-8.25	LDZ 350Z	350E	12"	15-7/8"	80,000	16
	400E-3C-8.25		400E				16
8.25 Max. KV	8NLE-10E		10E	14"	17-7/8"	80,000	14
	8NLE-15E		15E				14
	8NLE-20E		20E				14
	8NLE-25E		25E				14
	8NLE-30E	LCZ 30E	30E				14
	8NLE-40E	LCZ 40E	40E				14
	8NLE-50E	LCZ 50E	50E				14
	8NLE-65E	LCZ 65E	65E				14
	8NLE-80E	LCZ 80E	80E				14
	8NLE-100E	LCZ 100E	100E				14
	8NLE2-100E	LCZ 100E	100E	14"	17-7/8"	80,000	15
	8NLE2-125E	LCZ 125E	125E				15
	8NLE2-150E	LCZ 150E	150E				15
	8NLE2-200E	LCZ 200E	200E				15
	8NLE2-250E		250E				15

RATED	Catalog Number	Old Catalog Number	Size	Dim. A (inches)	Dim. B (inches)	Max Interrupting Rating RMS (Asym)	Figure Number
15.5 Max. KV	10E-1C-15.5	LDN 10E	10E	15"	18.875"	60,000	14
	15E-1C-15.5	LDN 15E	15E				14
	20E-1C-15.5	LDN 20E	20E				14
	25E-1C-15.5	LDN 25E	25E				14
	30E-1C-15.5	LDN 30E	30E				14
	40E-1C-15.5	LDN 40E	40E				14
	50E-1C-15.5	LDN 50E	50E				14
	65E-1C-15.5	LDN 65E	65E				14
	80E-1C-15.5	LDN 80E	80E				14
	100E-1C-15.5	LDN 100E	100E				14
	65E-2C-15.5		65E	15"	18.875"	60,000	15
	80E-2C-15.5		80E				15
	100E-2C-15.5		100E				15
	125E-2C-15.5		125E				15
	150E-2C-15.5	LDN 150E	150E				15
	175E-2C-15.5	LDN 175E	175E				15
	200E-2C-15.5		200E				15
	200E-3C-15.5		200E	15"	18.875"	60,000	16
	250E-3C-15.5		250E				16
	300E-3C-15.5		300E				16

E Rated Medium Voltage Fuses

Current Limiting

Littelfuse POWR-GARD™ Products

RATED	Catalog Number	Old Catalog Number	Size	Dim. A (inches)	Dim. B (inches)	Max Interrupting Rating RMS (Asym)	Figure Number
15.5 Max. KV	15GSE-65E 15GSE-80E 15GSE-100E	—	65E 80E 100E	18"	21-7/8"	60,000	14 14 14
	15GSE2-125E 15GSE2-150E 15GSE2-175E 15GSE2-200E	—	125E 150E 175E 200E	18"	21-7/8"	60,000	15 15 15 15
15.5 Max. KV	15NLE-10E 15NLE-15E 15NLE-20E 15NLE-25E 15NLE-30E 15NLE-40E 15NLE-50E 15NLE-65E 15NLE-80E 15NLE-100E	 LCN 30E LCN 40E LCN 50E LCN 65E LCN 80ES LCN 100ES	10E 15E 20E 25E 30E 40E 50E 65E 80E 100E	20"	23-7/8"	60,000	14 14 14 14 14 14 14 14 14 14
	15NLE2-80E 15NLE2-100E 15NLE2-125E 15NLE2-150E 15NLE2-175E 15NLE2-200E	LCN 80E LCN 100E LCN 125X LCN 150E LCN 200ED	80E 100E 125E 150E 175E 200E	20"	23-7/8"	60,000	15 15 15 15 15 15
	15NLE3-150E 15NLE3-175E 15NLE3-250E 15NLE3-300E	—	150E 175E 250E 300E	20"	23-7/8"	60,000	16 16 16 16

RATED	Catalog Number	Old Catalog Number	Size	Dim. A (inches)	Dim. B (inches)	Max Interrupting Rating RMS (Asym)	Figure Number
25.8 Max. KV	15E-1C-25.8 20E-1C-25.8 25E-1C-25.8 30E-1C-25.8 40E-1C-25.8 50E-1C-25.8	—	15E 20E 25E 30E 40E 50E	21"	24-5/8"	40,000	14 14 14 14 14 14
	65E-2C-25.8 80E-2C-25.8 100E-2C-25.8	—	65E 80E 100E	21"	24-5/8"	40,000	15 15 15

RATED	Catalog Number	Old Catalog Number	Size	Dim. A (inches)	Dim. B (inches)	Max Interrupting Rating RMS (Asym)	Figure Number
38 Max. KV	3E-1C-38.0 7E-1C-38.0 10E-1C-38.0 15E-1C-38.0 20E-1C-38.0 25E-1C-38.0 30E-1C-38.0 40E-1C-38.0	—	3E 7E 10E 15E 20E 25E 30E 40E	27"	30-5/8"	20,000	14 14 14 14 14 14 14 14
	50E-2C-38.0 65E-2C-38.0 80E-2C-38.0	—	50E 65E 80E	27"	30-5/8"	20,000	15 15 15

E Rated Medium Voltage Fuses

Current Limiting

Littelfuse POWR-GARD™ Products

Clip Lock Design

The clip lock type designs ensures a positive contact between the fuse and the connection cam. The fuse's clip lock tab slides in between the clip casting and the cam to prevent the fuse from slipping or blowing out of the holder. This positive contact improves heat dissipation and allows fuses to run cooler.

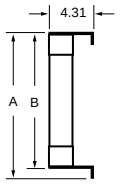


FIGURE 17

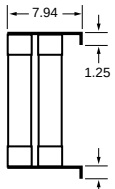


FIGURE 18

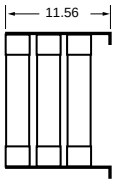
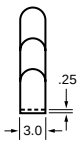


FIGURE 19



E RATED	Catalog Number	Old Catalog Number	Size	Dim. A (inches)	Dim. B (inches)	Max Interrupting Rating RMS (Asym)	Figure Number
5.5 Max. KV Clip Lock	10E-1CL-5.5	—	10E	16.38"	15.13"	80,000	17
	15E-1CL-5.5		15E				17
	20E-1C-5.5		20E				17
	25E-1CL-5.5		25E				17
	30E-1CL-5.5		30E				17
	40E-1CL-5.5		40E				17
	50E-1CL-5.5		50E				17
	65E-1CL-5.5		65E				17
	80E-1CL-5.5		80E				17
	100E-1CL-5.5		100E				17
	125E-1CL-5.5		125E				17
	150E-1CL-5.5		150E				17
	225E-2CL-5.5	—	225E	17.38"	16.13"	80,000	18
	250E-2CL-5.5		250E				18
	300E-2CL-5.5		300E				18
	350E-2CL-5.5		350E				18
	400E-2CL-5.5		400E				18
	450E-2CL-5.5		450E				18
	500E-3CL-5.5	—	500E	17.38"	16.13"	80,000	19
	550E-3CL-5.5		550E				19
	600E-3CL-5.5		600E				19

E RATED	Catalog Number	Old Catalog Number	Size	Dim. A (inches)	Dim. B (inches)	Max Interrupting Rating RMS (Asym)	Figure Number
8.25 Max. KV Clip Lock	10E-1CL-8.25	—	10E	17.38"	16.13"	80,000	17
	15E-1CL-8.25		15E				17
	20E-1C-8.25		20E				17
	25E-1CL-8.25		25E				17
	30E-1CL-8.25		30E				17
	40E-1CL-8.25		40E				17
	50E-1CL-8.25		50E				17
	65E-1CL-8.25		65E				17
	80E-1CL-8.25		80E				17
	100E-1CL-8.25		100E				17
	125E-2CL-8.25	—	125E	17.38"	16.13"	80,000	18
	150E-2CL-8.25		150E				18
	175E-2CL-8.25		175E				18
	200E-2CL-8.25		200E				18
	225E-2CL-8.25		225E				18
	250E-2CL-8.25		250E				18
	300E-2CL-8.25		300E				18
	350E-3CL-8.25	—	350E	17.38"	16.13"	80,000	19

E RATED	Catalog Number	Old Catalog Number	Size	Dim. A (inches)	Dim. B (inches)	Max Interrupting Rating RMS (Asym)	Figure Number
15.5 Max. KV Clip Lock	10E-1CL-15.5	—	10E	19.8"	18.1"	60,000	17
	15E-1CL-15.5		15E				17
	20E-1CL-15.5		20E				17
	25E-1CL-15.5		25E				17
	30E-1CL-15.5		30E				17
	40E-1CL-15.5		40E				17
	50E-1CL-15.5		50E				17
	65E-1CL-15.5	—	65E	22.81"	21.13"	60,000	17
	80E-1CL-15.5		80E				17
	100E-1CL-15.5		100E				17
	125E-2CL-15.5	—	125	22.81"	19.1"	60,000	18
	150E-3CL-15.5	—	150E	22.81"	19.1"	60,000	19
	175E-3CL-15.5		175E				19
	200E-3CL-15.5		200E				19
	225E-3CL-15.5		225E				19
	250E-3CL-15.5		250E				19
	300E-3CL-15.5		300E				19

E Rated Potential Transformer Fuses

Current Limiting

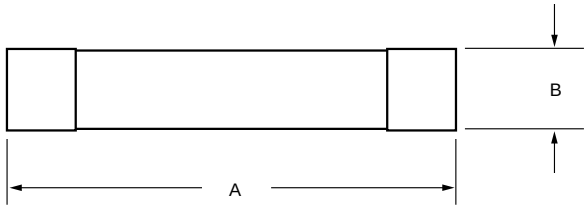
Littelfuse POWR-GARD™ Products

Potential Transformer (PT) fuses are current limiting fuses with high interrupting ratings designed for the protection of potential transformers.

Application Note:
When applying fuses for the protection of transformers, the magnetizing current inrush must be considered. The characteristics of the inrush, which can be matched with a fuse's time-current curve, should be available from the transformer manufacturer.

CHARACTERISTICS

Voltage Rating: 600VAC – 25,500 VAC
Current Range: 1/2E – 10E



PT	Catalog Number	Old Catalog Number	Size	Length Dim. A (inches)	Diameter Dim. B (inches)	Max Interrupting Rating RMS (Asym)
600 Volt	3E-4PT-6		3E	4.625	0.8125	62,500
	5E-4PT-6		5E	4.625	0.8125	62,500
	7E-4PT-6		7E	4.625	0.8125	62,500
	10E-4PT-6		10E	4.625	0.8125	62,500
2.4 Max. KV	1E-4PT-2.4	LCD 1E-4	1E	4.625	0.8125	40,000
	2E-4PT-2.4	LCD 2E-4	2E	4.625	0.8125	40,000
2.75 Max. KV	1E-6PT-2.75		1E	7.375	1.625	37,500
	2E-6PT-2.75		2E	7.375	1.625	37,500
	3E-6PT-2.75		3E	7.375	1.625	37,500
	1E-8PT-2.75		1E	9.5	1.625	50,000
	2E-8PT-2.75		2E	9.5	1.625	50,000
	3E-8PT-2.75		3E	9.5	1.625	50,000
4.8 Max. KV	1E-5PT-4.8	LCE 1E-4	1E	5.5	0.8125	50,000
	2E-5PT-4.8	LCE 2E-4	2E	5.5	0.8125	50,000
5.5 Max. KV	1/2E-6PT-5.5		1/2E	7.375	1.625	37,500
	1E-6PT-5.5		1E	7.375	1.625	37,500
	2E-6PT-5.5		2E	7.375	1.625	37,500
	3E-6PT-5.5		3E	7.375	1.625	37,500
	5E-6PT-5.5		5E	7.375	1.625	37,500
	1/2E-8PT-5.5	LCQ .5E	1/2E	9.5	1.625	37,500
	1E-8PT-5.5	LCQ 1E	1E	9.5	1.625	37,500
	2E-8PT-5.5	LCQ 2E	2E	9.5	1.625	37,500
	3E-8PT-5.5	LCQ 3E	3E	9.5	1.625	37,500
	5E-8PT-5.5	LCQ 5E	5E	9.5	1.625	37,500
	10E-8PT-5.5	LCQ 10E	10E	9.5	1.625	37,500
8.25 Max. KV	1/2E-8PT-8.25		1/2E	9.5	1.625	50,000
	1E-8PT-8.25		1E	9.5	1.625	50,000
	2E-8PT-8.25		2E	9.5	1.625	50,000
	3E-8PT-8.25		3E	9.5	1.625	50,000
15.5 Max. KV	1/2E-11PT-15.5	LCT .5E	1/2E	12.875	1.625	80,000
	1E-11PT-15.5	LCT 1E	1E	12.875	1.625	80,000
	2E-11PT-15.5	LCT 2E	2E	12.875	1.625	80,000
	3E-11PT-15.5	LCT 3E	3E	12.875	1.625	80,000
	3E-16PT-15.5		3E	17.5	1.625	80,000
	5E-16PT-15.5		5E	17.5	1.625	80,000
25.5 Max. KV	1/2E-16PT-25.5	LCJ 1E-4	1/2E	17.5	1.625	43,500
	1E-16PT-25.5	LCJ 2E-4	1E	17.5	1.625	43,500

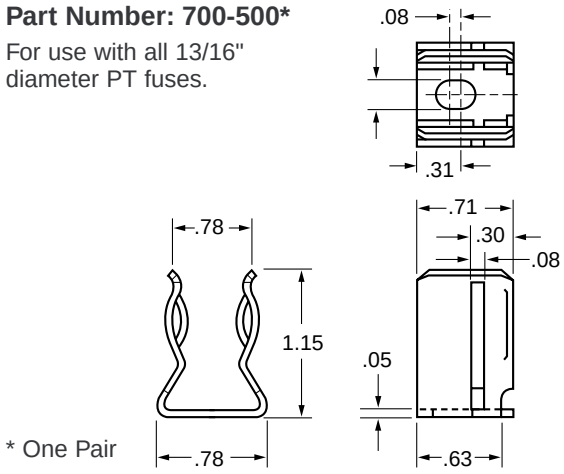
Live Parts

Live parts are available for mounting “E”, “R”, and “PT” single, double, and triple barrel fuses. Mounting clips are available for ferrule type and clip lock style fuses. All clips are sold in pairs.

Contact factory for additional live parts.

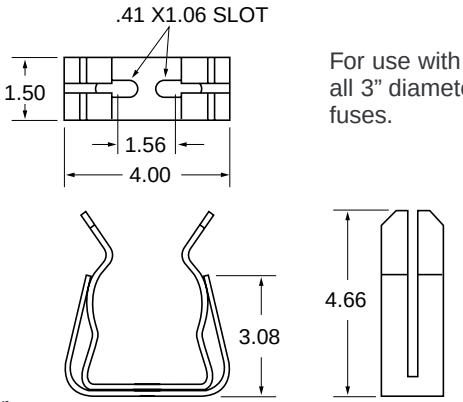
Part Number: 700-500*

For use with all 13/16" diameter PT fuses.



* One Pair

Part Number: 700-530*

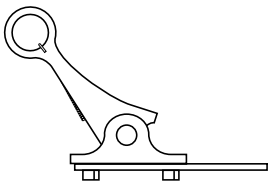


For use with all 3” diameter fuses.

* One Pair

Part Number: 700-520-CL*

Clip Lock Design (For CL-14)



* One Pair

Mounting Details for Clip Lock