

This section presents complete electrical specifications for Littelfuse's board-level electronic fuses.

461 Series <i>TeleLink</i> [®] Fuse	4-2
229P / 230P Series 2AG <i>Slo-Blo</i> [®] Fuse	4-6
451 / 453 Series <i>NANO</i> ² [®] Very Fast-Acting Fuse	4-9
452 / 454 Series <i>NANO</i> ² [®] <i>Slo-Blo</i> [®] Fuse	4-12
154 Series SMF <i>OMNI-BLOK</i> [®] Fuse Block	4-14
464 Series <i>NANO</i> ² [®] 250 V UMF Fast-Acting Fuse	4-15
465 Series <i>NANO</i> ² [®] 250 V UMF Time Lag Fuse	4-17
481 Series Alarm Indicating Fuse	4-19
482 Series Alarm Indicating Fuseholder	4-22

461 Series *TeleLink*® Fuse

RoHS

Littelfuse®



The *TeleLink* Surface Mount (SM) surge resistant fuse offers circuit protection without requiring a series resistor. When used in conjunction with the *SIDACTor*® Transient Voltage Suppressor (TVS), the *TeleLink* SM fuse and the *SIDACTor* TVS provide a complete regulatory-compliant solution for standards such as GR 1089, TIA-968-A (formerly known as FCC Part 68), UL 60950, and ITU K.20 and K.21. No series resistor is required for the 04611.25 and 0461002. to comply with these standards.

Contact factory for enhanced K.20 and K.21 details.

Surge Ratings

<i>TeleLink</i> SM Fuse	I _{pp} 2x10 µs Amps	I _{pp} 10x160 µs Amps	I _{pp} 10x560 µs Amps	I _{pp} 10x1000 µs Amps
0461.500	100	65	45	35
04611.25	500	160	115	100
0461002.	500	160	115	100

Interrupting Values

<i>TeleLink</i> SM Fuse *	Voltage Rating	Current Rating	I ² t Measured at DC Rated Voltage	Interrupting Rating			
				Voltage, Current	MIN	TYP	MAX
0461.500	600 V	.500 A	1.3 A ² Sec	600 V, 40 A	1 ms	2 ms	60 ms
04611.25	600 V	1.25 A	22.2 A ² Sec	600 V, 60 A	1 ms	2 ms	60 ms
0461002.	600 V	2 A	30 A ² Sec	600 V, 60 A	1 ms	2 ms	60 ms

* For non-RoHS tin/lead device, add "T" suffix.

Notes:

- The *TeleLink* SM fuse is designed to carry 100% of its rated current for four hours and 250% of its rated current for one second minimum and 120 seconds maximum. Typical time is four to 10 seconds. For optimal performance, an operating current of 75% or less is recommended.
- I²t is a non-repetitive RMS surge current rating for a period of 16.7 ms.

Resistance Ratings

<i>TeleLink</i> SM Fuse	Typical Voltage Drop @ Rated Current	DC Cold Resistance	
		MIN	MAX
0461.500	0.471 V	0.420 Ω	0.640 Ω
04611.25	0.205 V	0.107 Ω	0.150 Ω
0461002.	0.110 V	0.050 Ω	0.100 Ω

Notes:

- Typical inductance < 40 nH up to 500 MHz.
- Resistance changes 0.5% for every °C.
- Resistance is measured at 10% rated current.

Qualification Data

The 04611.25 and 0461002. meet the following test conditions per GR 1089 **without** additional series resistance. However, in-circuit test verification is required. Note that considerable heating may occur during Test 4 of the Second Level AC Power Fault Test.

First Level Lightning Surge Test

Test	Surge Voltage Volts	Wave-form μ s	Surge Current Amps	Repetitions Each Polarity
1	± 600	10x1000	100	25
2	± 1000	10x360	100	25
3	± 1000	10x1000	100	25
4	± 2500	2x10	500	10
5	± 1000	10x360	25	5

Second Level Lightning Surge Test

Test	Surge Voltage Volts	Wave-form μ s	Surge Current Amps	Repetitions Each Polarity
1	± 5000	2x10	500	1

First Level AC Power Fault Test

Test	Applied Voltage, 60 Hz V_{RMS}	Short Circuit Current Amps	Duration
1	50	0.33	15 min
2	100	0.17	15 min
3	200, 400, 600	1 at 600 V	60 applications, 1 s each
4	1000	1	60 applications, 1 s each
5	*	*	60 applications, 5 s each
6	600	0.5	30 s each
7	600	2.2	2 s each
8	600	3	1 s each
9	1000	5	0.5 s each

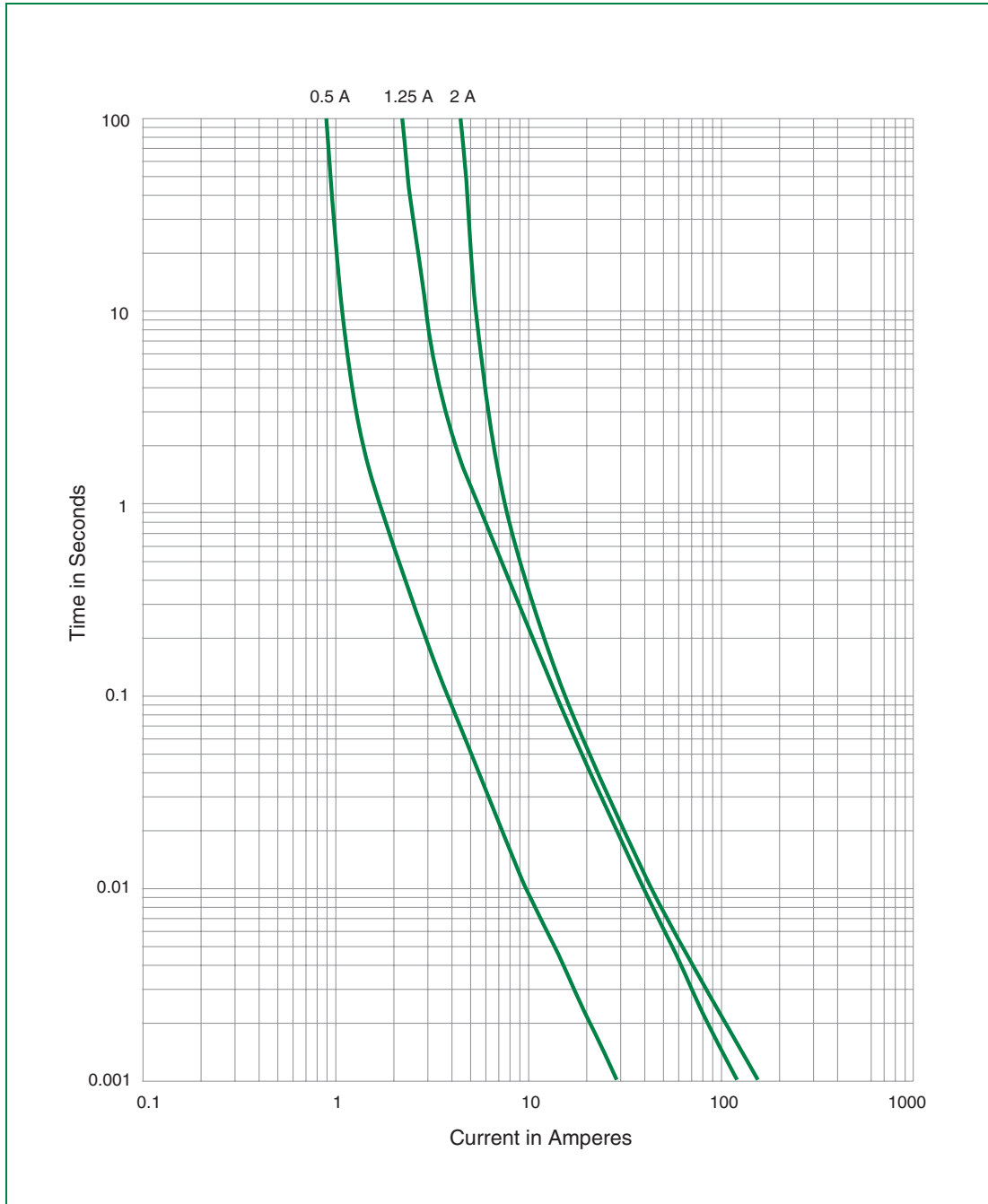
* Test 5 simulates a high impedance induction fault. For specific information, contact Littelfuse, Inc.

Second Level AC Power Fault Test for Non-customer Premises Equipment

Test	Applied Voltage, 60 Hz V_{RMS}	Short Circuit Current Amps	Duration
1	120, 277	30	30 min
2	600	60	5 s
3	600	7	5 s
4	100-600	2.2 at 600 V	30 min

Notes:

- Power fault tests equal or exceed the requirements of UL 60950 3rd edition.
- Test 4 is intended to produce a maximum heating effect. Temperature readings can exceed 150 °C.
- Use caution when routing internal traces adjacent to the 04611.25 and 0461002.



Time Current Curve

Temperature Derating Curve

Operating temperature is -55 °C to +125 °C with proper correction factor applied.

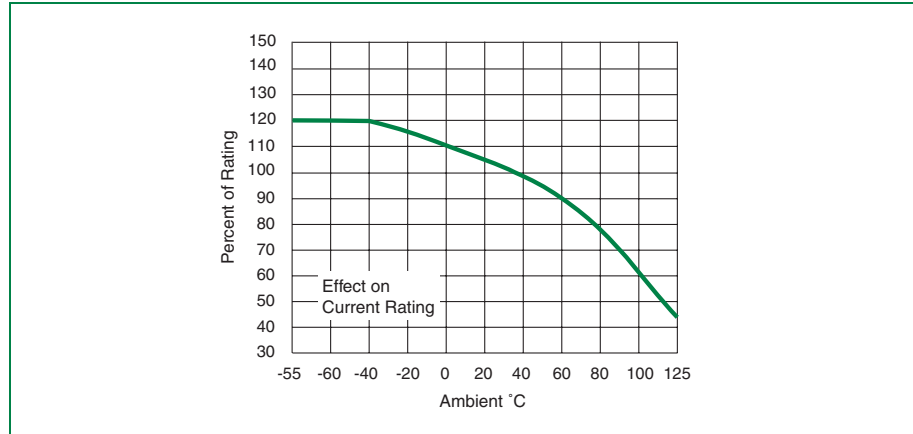


Chart of Correction Factor

Maximum Temperature Rise

TeleLink Fuse	Temperature Reading
0461.500	≤ 75 °C (167 °F) *
04611.25	≤ 82 °C (180 °F) *
0461002.	≤ 50 °C (122 °F) *

* Higher currents and PCB layout designs can affect this parameter.

Notes:

- Readings are measured at rated current after temperature stabilizes
- The 04611.25 meets the requirements of UL 248-14. However, board layout, board trace widths, and ambient temperature values can cause higher than expected rises in temperature.

229P / 230P Series 2AG *Slo-Blo*® Fuse



The 2AG *Slo-Blo* fuses are available in cartridge form or with axial leads (board washable). The “P” suffix indicates that the fuse is a lead-free, RoHS-compliant device. These fuses provide the same performance characteristics as the 3AG counterpart while occupying one-third the space.

The fuses combine conventional overcurrent protection with the ability to withstand high-current, short-duration pulses. They meet demanding telecom requirements and comply with the short circuit requirements of UL 1459. An insulating sleeve option is available.

For environmental and physical specifications and soldering parameters, see www.littelfuse.com.

The 2AG Indicating *Slo-Blo* fuse instantly identifies itself upon opening by showing a discoloration of its glass body, eliminating guesswork and time-consuming circuit testing.

Electrical Characteristics

% of Ampere Rating	Opening Time	
	MIN	MAX
100	4 hours	—
135	—	1 hour
200	3 s	20 s

Note: Short circuit capabilities for 60 A, 40 A, 7 A, and 2.2 A are 600 V ac.

Interrupting Values

Current Rating Amps	Interrupting Values V ac
0.25–3.5	10,000 A at 125
4–7	400 A at 125
0.25–1	35 A at 250
1.25–3.5	100 A at 250

Surge Ratings

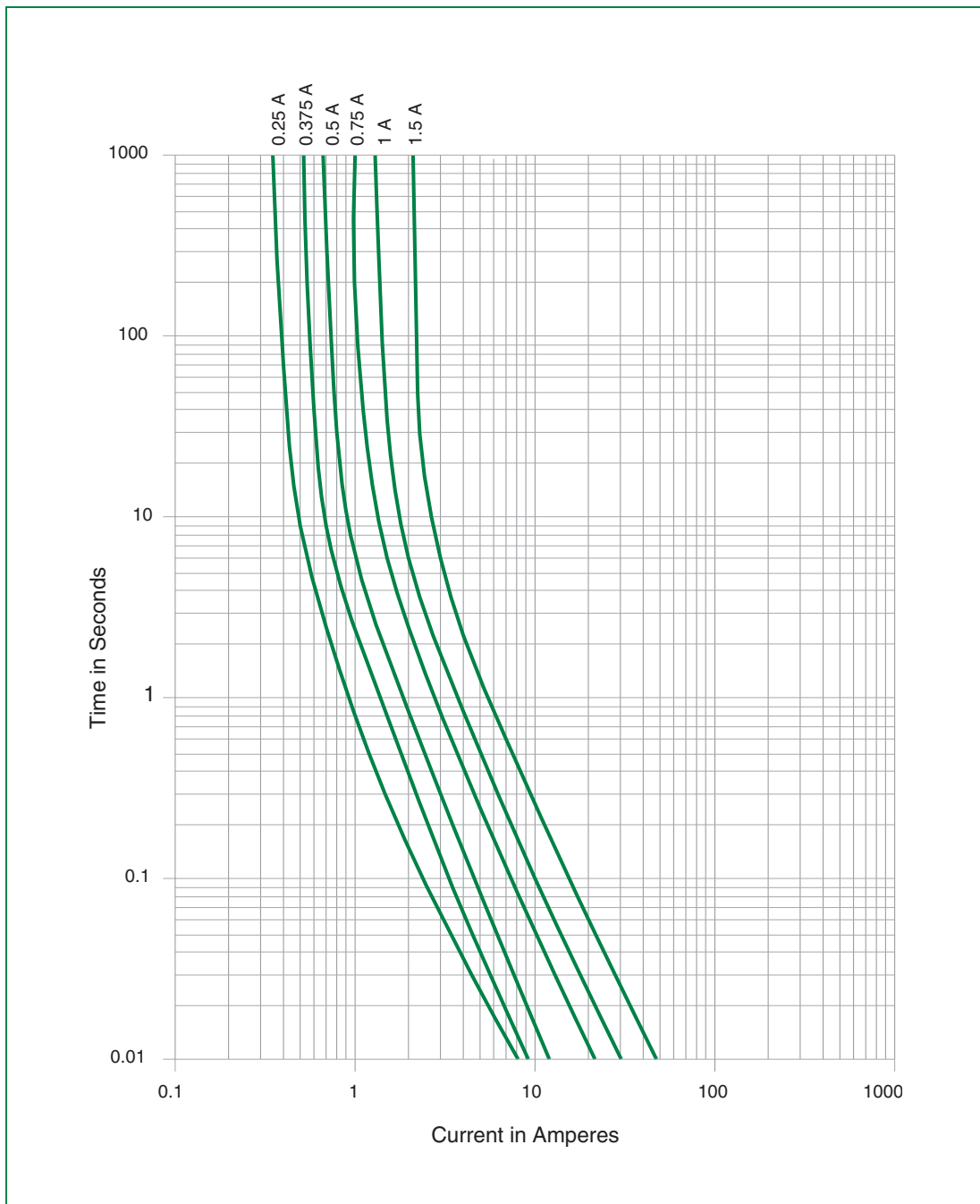
Cartridge Part Number	Axial Lead Part Number	I _{pp} 2x10 µs @ 2500 V Amps	I _{pp} 10x160 µs @ 1500 V Amps	I _{pp} 10x560 µs @ 800 V Amps	I _{pp} 10x1000 µs @ 1000 V Amps
0229.250P	0230.250P	not rated	23	16.6	12.4
0229.350P	0230.350P	not rated	34	25.8	19.3
0229.375P	0230.375P	not rated	40	25.4	19
0229.500P	0230.500P	not rated	60	37.7	28.2
0229.600P	0230.600P	not rated	71	47.2	35.3
0229.750P	0230.750P	not rated	91	65.5	49
0229.800P	0230.800P	not rated	104	68.9	51.6
0229001.P	0230001.P	not rated	130	88.6	66.3
02291.25P	02301.25P	500	162	118.1	100

Notes:

- Fuses withstand 50 repetitions of a double exponential impulse wave at listed currents and voltages, except that the 02291.25P / 02301.25P fuse withstands 20 repetitions at 2x10 µs @ 2500 V.
- To order an indicating 2AG Slo-Blo fuse, add an "S" at the end of the part number (for example, 0230001S.P).

Electrical Parameters

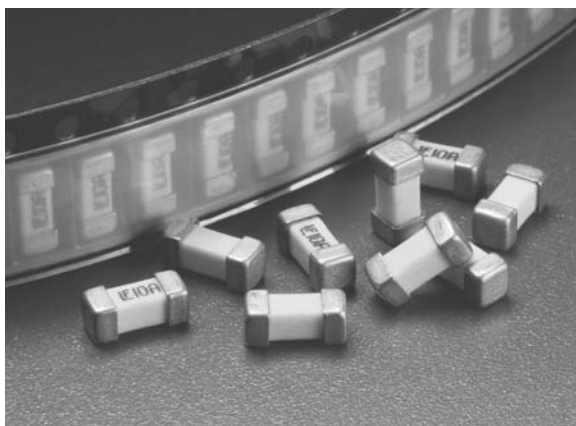
Cartridge Part Number	Axial Lead Part Number	Voltage Rating	Current Rating Amps	i ² t Measured at DC Rated Voltage A ² Sec	Typical DC Cold Resistance Ohms
0229.250P	0230.250P	250	0.25	0.216	2.41
0229.350P	0230.350P	250	0.35	0.49	1.3
0229.375P	0230.375P	250	0.375	0.58	1.17
0229.500P	0230.500P	250	0.5	1.16	0.688
0229.600P	0230.600P	250	0.6	1.75	0.477
0229.750P	0230.750P	250	0.75	2.95	0.340
0229.800P	0230.800P	250	0.8	3.45	0.304
0229001.P	0230001.P	250	1	5.64	0.212
02291.25P	02301.25P	250	1.25	9.8	0.145



Time Current Curve

451 / 453 Series *NANO*²® Very Fast-Acting Fuse

RoHS



The *NANO*² SMF fuse is a very small, square surface mount fuse also available in a surface mount holder.

For environmental and physical specifications and soldering parameters, see www.littelfuse.com.

The recommended fuse block for the 451 / 453 Series fuse is the SMF *OMNI-BLOK*[®] Holder, Series 154000.

Electronic Fuses

Electrical Characteristics

% of Ampere Rating	Ampere Rating	Opening Time	
		MIN	MAX
100	0.625–15 A	4 hours	—
200	0.625–10 A	—	5 s
	12–15 A	—	20 s

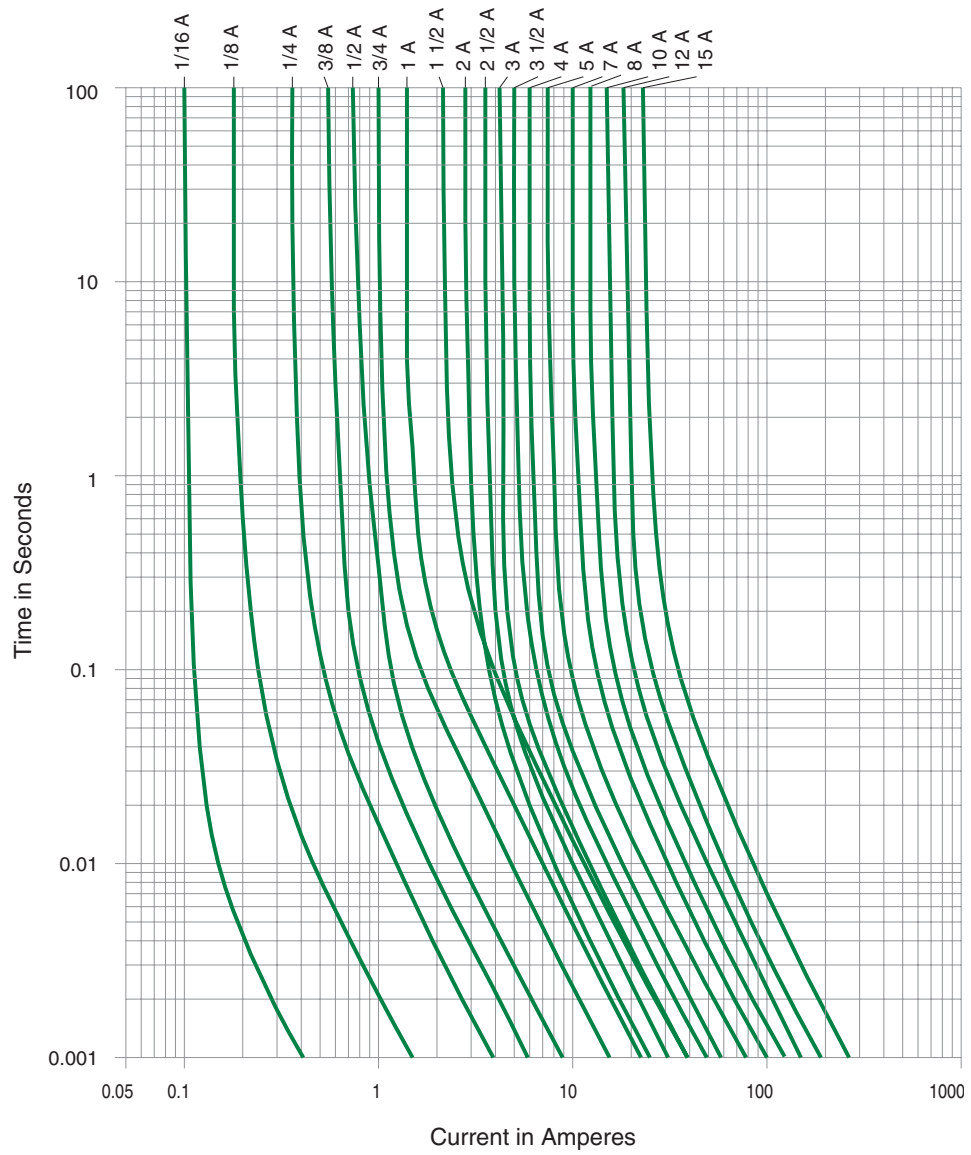
Interrupting Values

Current Rating Amps	Interrupting Values
0.625–8	50 A at 125 V ac / V dc
	300 A at 32 V dc
10	35 A at 125 V ac / 50 A at 125 V dc
	300 A at 32 V dc
12–15	50 A at 65 V ac / V dc
	300 A at 24 V dc

Electrical Parameters

Tin-lead Plated Part Number *	Silver Plated Part Number *	Voltage Rating	Current Rating Amps	I^2t Measured at DC Rated Voltage A ² Sec	Typical DC Cold Resistance Ohms
—	0451.062	125	0.062	0.00019	5.5
—	0451.080	125	0.080	0.00033	4.05
—	0451.100	125	0.100	0.00138	3.10
—	0451.125	125	0.125	0.00286	1.70
0451.160	0453.160	125	0.160	0.00306	1.80
0451.200	0453.200	125	0.200	0.00652	1.40
0451.250	0453.250	125	0.250	0.01126	1.05
0451.315	0453.315	125	0.315	0.0231	0.78
0451.375	0453.375	125	0.375	0.0425	0.61
0451.400	0453.400	125	0.400	0.0484	0.56
0451.500	0453.500	125	0.500	0.0795	0.42
0451.630	0453.630	125	0.630	0.143	0.305
0451.750	0453.750	125	0.750	0.185	0.245
0451.800	0453.800	125	0.800	0.271	0.212
0451001.	0453001.	125	1	0.459	0.153
04511.25	04531.25	125	1.25	0.664	0.078
045101.5	045301.5	125	1.5	0.853	0.063
045101.6	045301.6	125	1.6	1.06	0.058
0451002.	0453002.	125	2	0.53	0.0367
045102.5	045302.5	125	2.5	1.029	0.0286
0451003.	0453003.	125	3	1.65	0.0227
04513.15	04533.15	125	3.15	1.92	0.0215
045103.5	045303.5	125	3.5	2.469	0.0200
0451004.	0453004.	125	4	3.152	0.0160
0451005.	0453005.	125	5	5.566	0.0125
045106.3	045306.3	125	6.3	9.17	0.0096
0451007.	0453007.	125	7	10.32	0.009
0451008.	0453008.	125	8	20.23	0.0077
0451010.	0453010.	125	10	26.46	0.0056
0451012.	0453012.	65	12	47.97	0.0049
0451015.	0453015.	65	15	97.82	0.0037

* For RoHS compliant 451 series parts, add the letter "L" to the end of the packaging suffix. For example, 0451001.MRL indicates RoHS compliant 1 A, 1,000 pieces per reel.

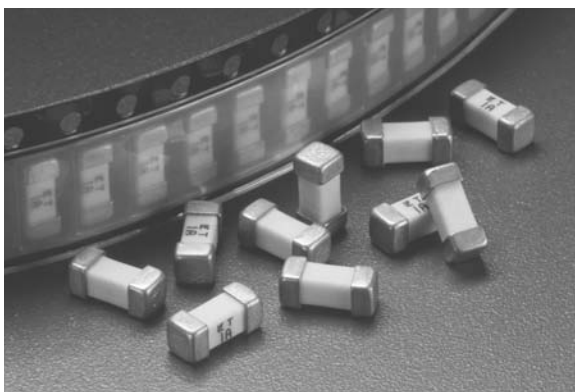


Time Current Curve

452 / 454 Series *NANO²* *Slo-Blo*® Fuse

RoHS

Littelfuse®



The *NANO² Slo-Blo* fuse has enhanced inrush withstand characteristics over the *NANO²* fast-acting fuse. The unique time delay feature of this fuse design helps solve the problem of nuisance “opening” by accommodating inrush currents that normally cause a fast acting fuse to open.

The recommended fuse block for the 452 / 454 Series *Slo-Blo* fuse is the SMF *OMNI-BLOK*® Holder, Series 154000T.

Electrical Characteristics

% of Ampere Rating	Opening Time	
	MIN	MAX
100	4 hours	—
200	1 s	60 s
300	0.2 s	3 s
800	0.02 s	0.1 s

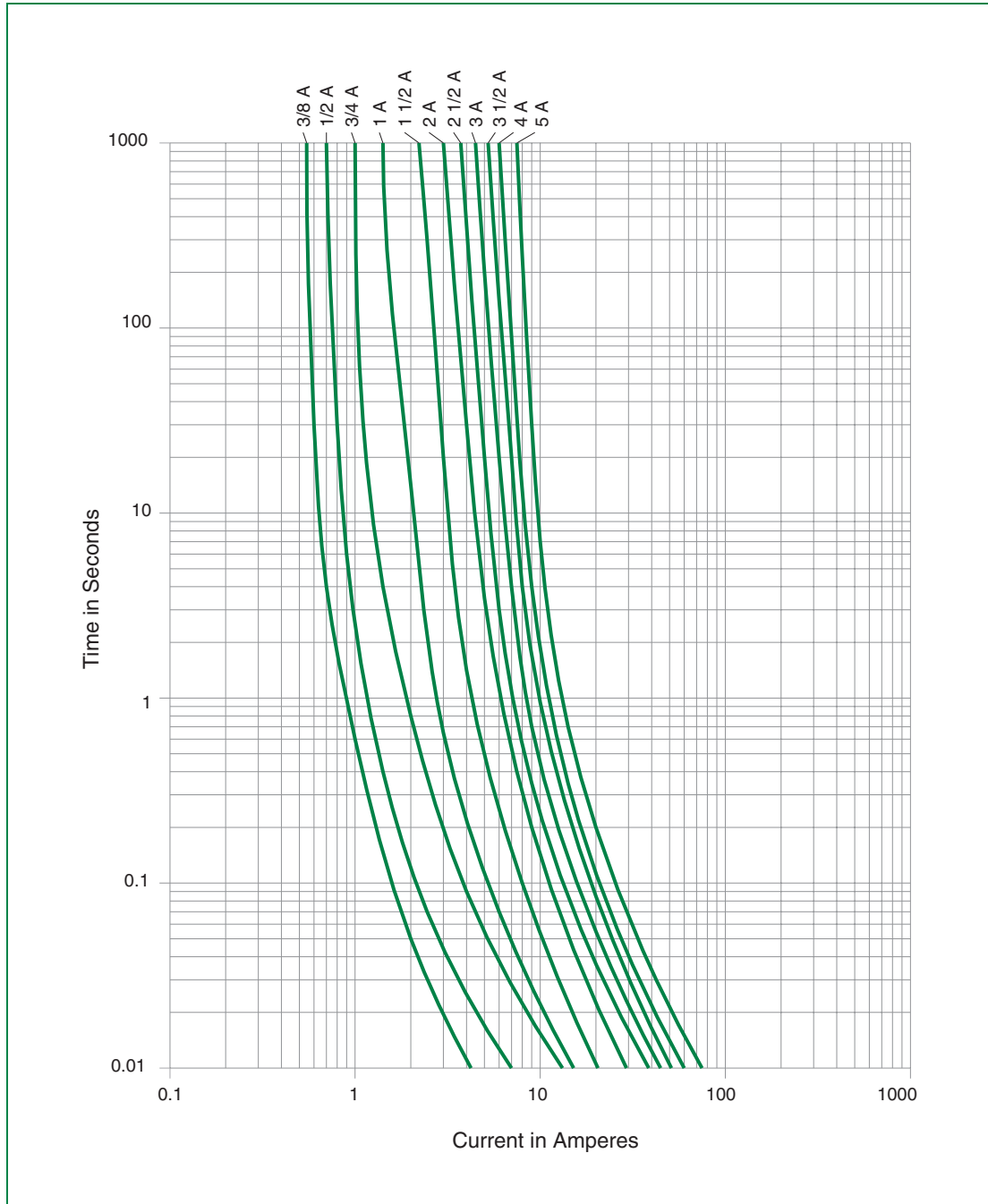
Interrupting Values

Current Rating Amps	Interrupting Values V ac / V dc
0.375–5	50 A at 125

Electrical Parameters

Tin-lead Plated Part Number *	Silver Plated Part Number *	Voltage Rating	Current Rating Amps	I ² t Measured at DC Rated Voltage A ² Sec	Typical DC Cold Resistance Ohms
0452.375	0454.375	125	0.375	0.101	1.2
0452.500	0454.500	125	0.5	0.240	0.7
0452.750	0454.750	125	0.75	0.904	0.36
0452001.	0454001.	125	1	1.98	0.225
045201.5	045401.5	125	1.5	3.65	0.093
0452002.	0454002.	125	2	8.2	0.0625
045202.5	045402.5	125	2.5	15	0.045
0452003.	0454003.	125	3	20.16	0.034
045203.5	045403.5	125	3.5	26.53	0.0224
0452004.	0454004.	125	4	34.4	0.0186
0452005.	0454005.	125	5	53.72	0.0136

* For RoHS compliant 452 series parts, add the letter “L” to the end of the packaging suffix. For example, 0452001.MRL indicates RoHS compliant 1 A, 1,000 pieces per reel.



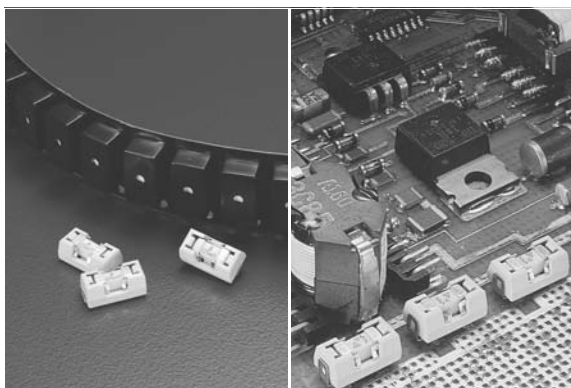
Time Current Curve

Electronic Fuses

154 Series SMF *OMNI-BLOK*® Fuse Block

RoHS

Littelfuse®



The SMF *OMNI-BLOK* fuseholder permits quick and easy replacement of *NANO*² SMF surface mount fuses. The fuse block and pre-installed fuse combination can be placed on the PC board in one efficient manufacturing operation. Fuses can be replaced without exposing the PC board to the detrimental effects of solder heat.

Electrical Parameters

Fuseholder with Very Fast-Acting Fuse		Fuseholder with <i>Slo-Blo</i> Fuse		Current Rating Amps
Fuseholder Part Number	Very Fast-Acting Fuse Furnished *	Fuseholder Part Number	<i>Slo-Blo</i> Fuse Furnished **	
154.062	0453.062	—	—	0.0625
154.125	0453.125	—	—	0.125
154.250	0453.250	—	—	0.25
154.375	0453.375	154.375T	0454.375	0.375
154.500	0453.500	154.500T	0454.500	0.5
154.750	0453.750	154.750T	0454.750	0.75
154001.	0453001.	154001T	0454001.	1
15401.5	045301.5	15401.5T	045401.5	1.5
154002.	0453002.	154002T	0454002.	2
15402.5	045302.5	15402.5T	045402.5	2.5
154003.	0453003.	154003T	0454003.	3
15403.5	045303.5	15403.5T	045403.5	3.5
154004.	0453004.	154004T	0454004.	4
154005.	0453005.	154005T	0454005.	5
154007.	0453007.	—	—	7
154008.	0453008.	—	—	8
154010.	0453010.	—	—	10

* 453 Series fuse has silver-plated end caps, installed to accommodate solder reflow process.

** 454 Series fuse has silver-plated end caps, installed to accommodate solder reflow process.

464 Series *NANO*²® 250 V UMF Fast-Acting Fuse



The Surface Mount *NANO*² 250 V UMF product family is based on the proven *NANO*² fuse product technology.

It complies with IEC Publication IEC 60127-4- Universal Modular Fuse-Links (UMF). This IEC standard is accepted by UL/CSA, making it the first global fuse standard.

This fuse family is RoHS compliant and compatible with lead-free solders and higher temperature profiles.

For environmental and physical specifications and soldering parameters, see www.littelfuse.com.

Electronic Fuses

Electrical Characteristics

% of Ampere Rating	Opening Time	
	MIN	MAX
125	1 hour	—
200	—	2 min
1000	0.001 s	0.01 s

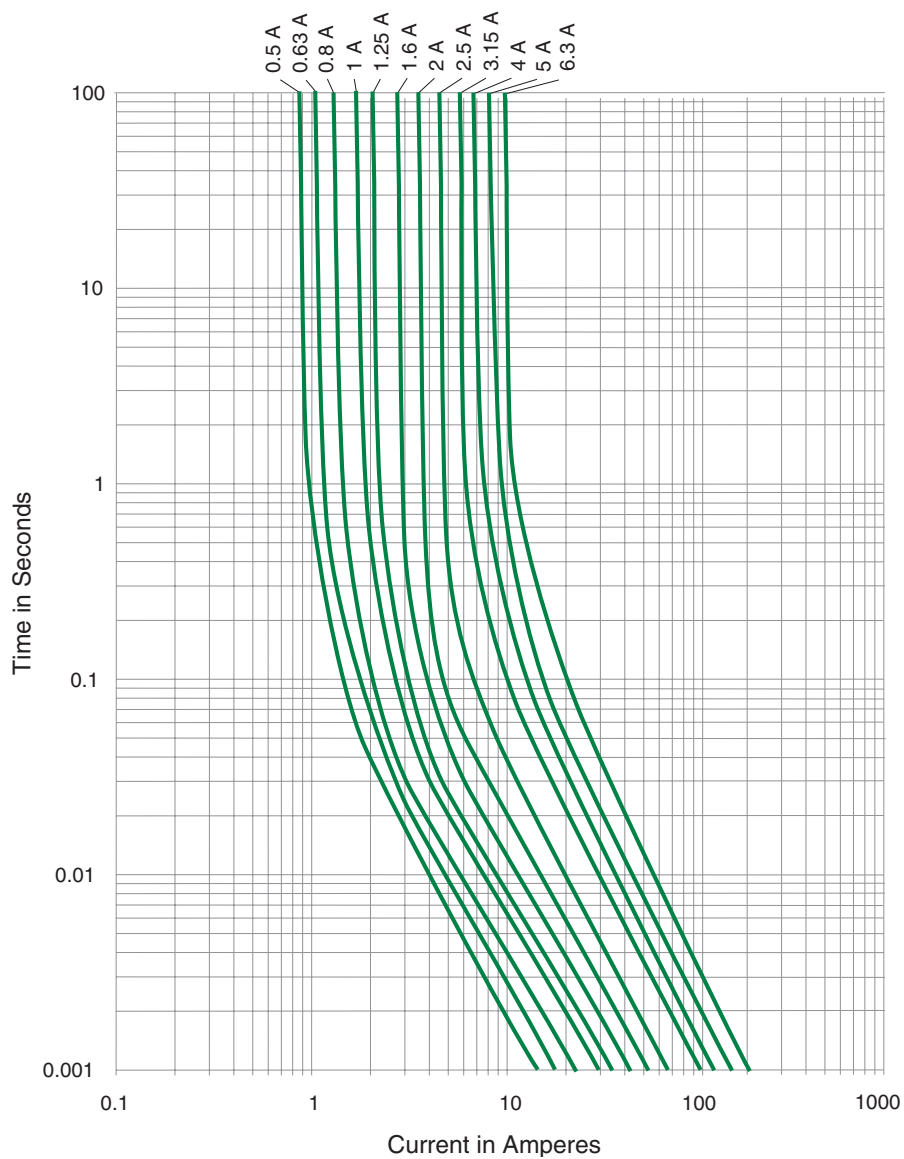
Interrupting Values

Current Rating Amps	Interrupting Values V ac
0.5–6.3	100 A at 250

Electrical Parameters

Part Number	Voltage Rating	Current Rating Amps	I ² t Measured at DC Rated Voltage A ² Sec	Typical DC Cold Resistance Ohms
0464.500	250	0.5	0.3	0.283
0464001.	250	1	0.8	0.1
04641.25	250	1.25	1.2	0.059
046401.6	250	1.6	1.9	0.048
0464002.	250	2	2.8	0.038
046402.5	250	2.5	4.5	0.032
04643.15	250	3.15	9.4	0.024
0464004.	250	4	15.1	0.018
0464005.	250	5	23.1	0.014
046406.3	250	6.3	40	0.011

Note: For information and availability of additional ratings, contact Littelfuse.



Time Current Curve

465 Series *NANO*²® 250 V UMF Time Lag Fuse



The Surface Mount *NANO*² 250 V UMF product family is based on the proven *NANO*² fuse product technology.

It complies with IEC Publication IEC 60127-4- Universal Modular Fuse-Links (UMF). This IEC standard is accepted by UL/CSA, making it the first global fuse standard.

This fuse family is RoHS compliant and compatible with lead-free solders and higher temperature profiles.

For environmental and physical specifications and soldering parameters, see www.littelfuse.com.

Electronic Fuses

Electrical Characteristics

% of Ampere Rating	Opening Time	
	MIN	MAX
125	1 hour	—
200	—	2 min
1000	0.01 s	0.1 s

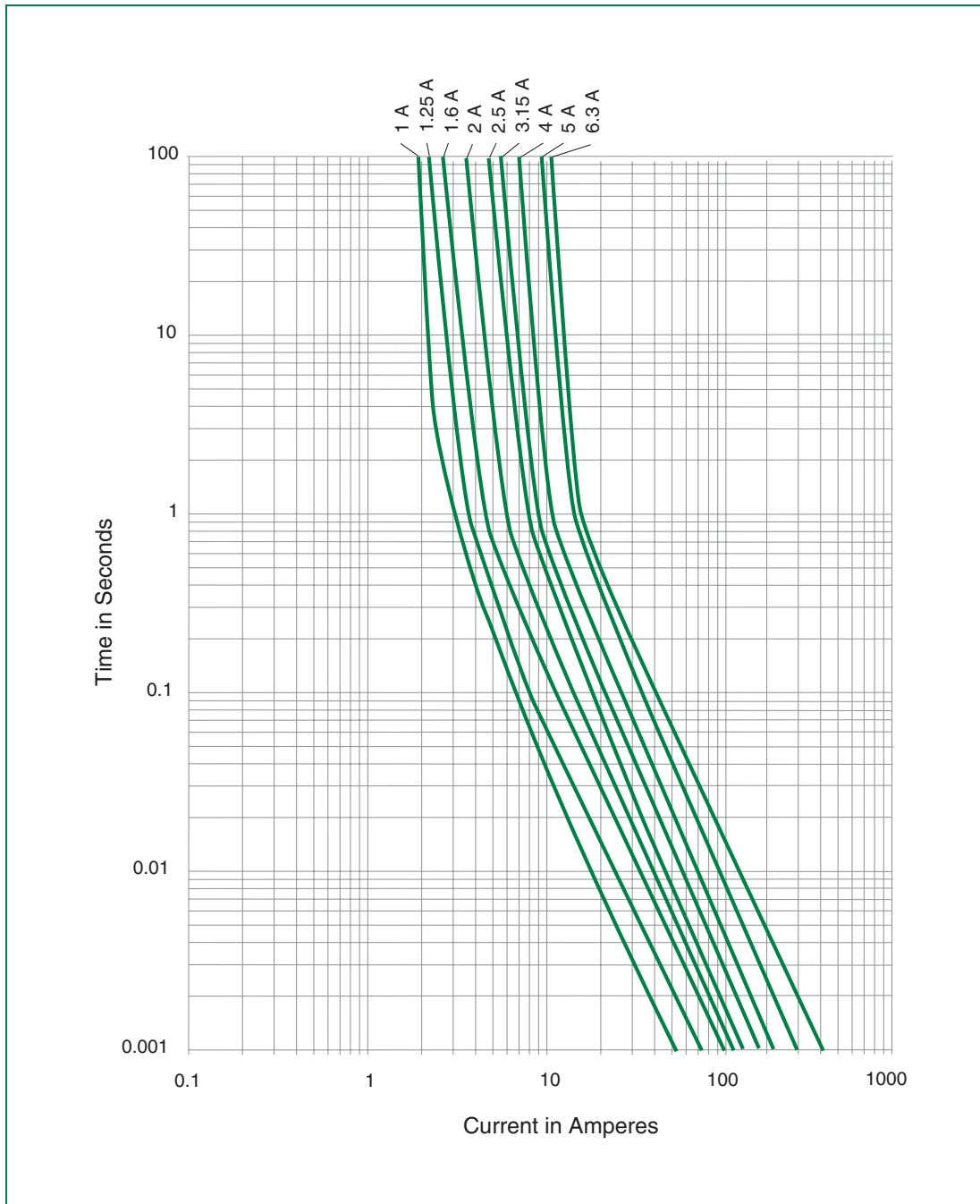
Interrupting Values

Current Rating Amps	Interrupting Values V ac
1–6.3	100 A at 250

Electrical Parameters

Part Number	Voltage Rating	Current Rating Amps	I ² t Measured at DC Rated Voltage A ² Sec	Typical DC Cold Resistance Ohms
0465001.	250	1	2.8	0.107
04651.25	250	1.25	5.6	0.083
046501.6	250	1.6	9.2	0.056
0465002.	250	2	14.9	0.039
046502.5	250	2.5	21	0.026
04653.15	250	3.15	31.7	0.021
0465004.	250	4	48.4	0.016
0465005.	250	5	87	0.013
046506.3	250	6.3	144.4	0.0088

Note: For information and availability of additional ratings, contact Littelfuse.



Time Current Curve

481 Series Alarm Indicating Fuse



The 481 Series Alarm Indicating Fuse is ideal for telecommunications and control panel circuits. It eliminates down time by immediately pinpointing the blown (open) circuit, triggering LED or audio alarm while placed in mating holder (482 Series).

A clear plastic lens option is available for additional safety.

For environmental and physical specifications, see www.littelfuse.com.

Electronic Fuses

Electrical Characteristics

% of Ampere Rating	Opening Time	
	MIN	MAX
100	10 min	—
150	—	5 min

Interrupting Values

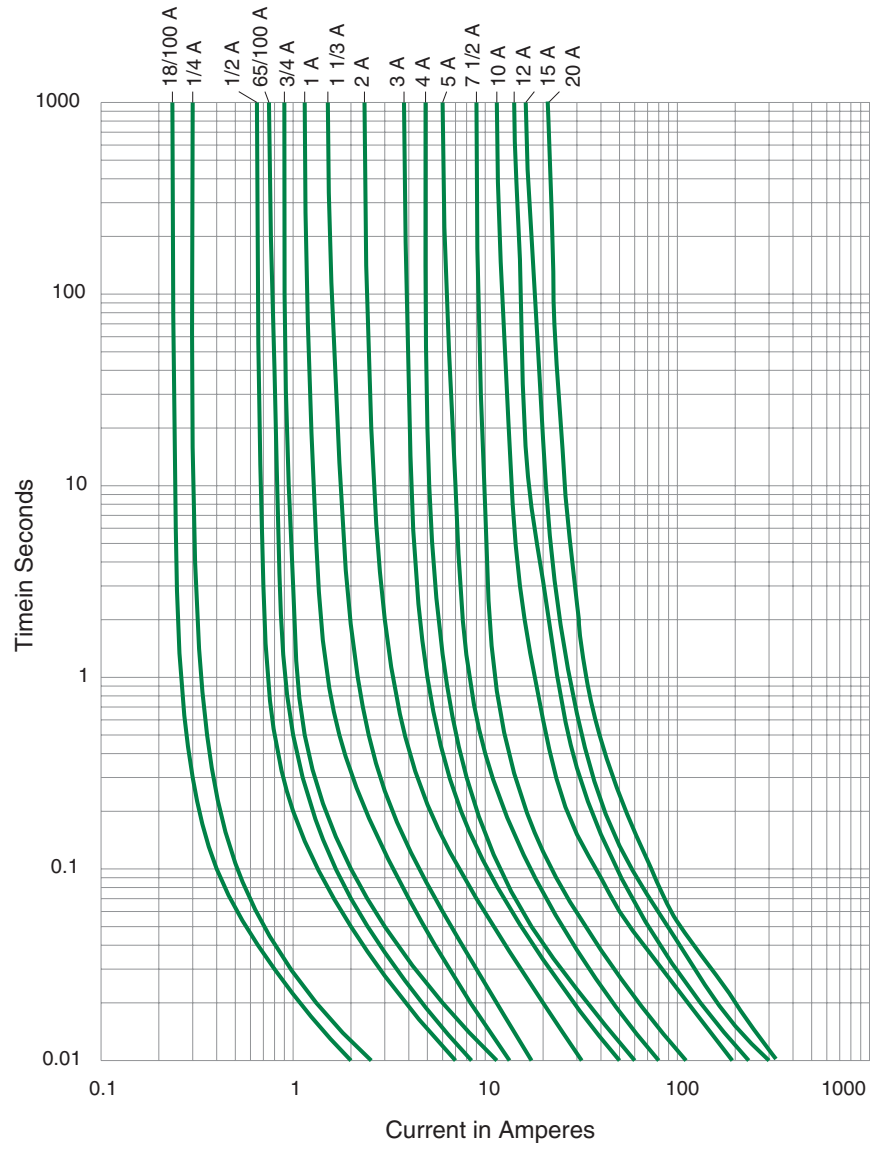
Current Rating Amps	Interrupting Values
—	450 A at 60 V dc
Up to 20	300 A at 125 V ac
Up to 15	300 A at 125 V dc
Up to 20	200 A at 125 V dc

Electrical Parameters

Part Number	Voltage Rating V AC & V DC	Current Rating Amps	Body Color Code	I^2t Measured at DC Rated Voltage A ² Sec	Typical DC Cold Resistance Ohms
0481.180	125	0.18	Yellow	0.00808	6.25
0481.200	125	0.2	Red / Black	0.0140	5.7
0481.250	125	0.25	Violet	0.0356	4.2
0481.375	125	0.375	Gray / White	0.028	2
0481.500	125	0.5	Red	0.139	1.52
0481.650	125	0.65	Black	0.278	1.25
0481.750	125	0.75	Brown	0.363	0.98
0481001.	125	1	Gray	0.733	0.665
04811.33	125	1.33	White	1.58	0.48
048101.5	125	1.5	Yellow / White	2.55	0.385
0481002.	125	2	Orange	5.29	0.12
048102.5	125	2.5	Orange / White	9.46	0.0904
0481003.	125	3	Blue	11.2	0.067
048103.5	125	3.5	Blue / White	10.5	0.0415
0481004.	125	4	Brown / White	15.4	0.035
0481005.	125	5	Green	26.2	0.0285
048107.5	125	7.5	Black / White	42.8	0.0113
0481010.	125	10	Red / White	115.3	0.0084
0481012.	125	12	Green / Yellow	222.5	0.0066
0481015.	125	15	Red / Blue	294.22	0.0058
0481020.	125	20 *	Green / White	570	0.00394
0481000.	125	Dummy	Ø	—	—

* For information and availability of additional ratings, contact Littelfuse.

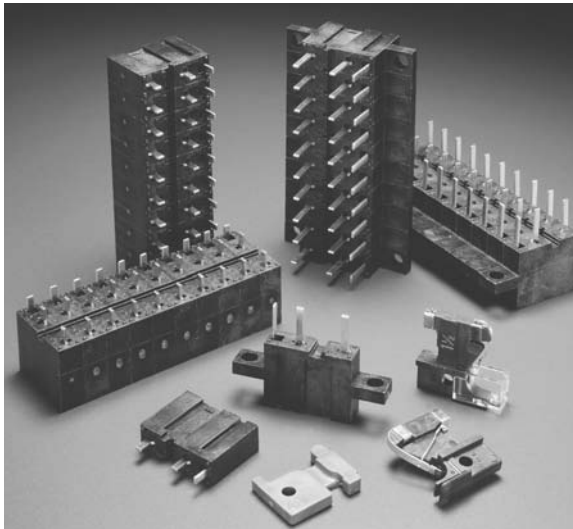
** Use 20 A fuseholder. Fuse is keyed to prevent insertion in lower-rated holders. (The 20 A fuseholder is designed to accept all ratings up to 20 A).



Time Current Curve

Electronic Fuses

482 Series Alarm Indicating Fuseholder



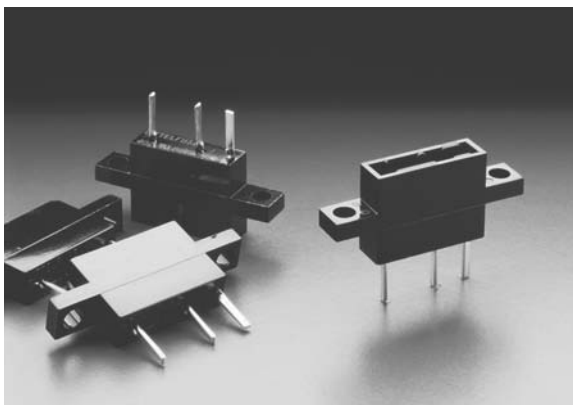
The 482 Series Alarm Indicating fuseholder is designed for use with the Littelfuse 481 Alarm fuse as well as with other manufacturers' replacement fuses.

Ideal for telecommunications and control panel circuits, this fuseholder is available in three types of mounts.

The **PCB mount** can be soldered directly to a printed circuit board. Rated up to 15 A, it is available in single pole or gangable up to 20 poles. It is keyed to prevent insertion of a 20 A fuse.

The **20 A panel mount** is available in a single pole version rated up to 20 A. Large leads allow wire attachment.

The **15 A panel mount** is a 15 A gangable version of the 482 Series fuseholder. It is keyed to prevent insertion of a 20 A fuse.



20 A Panel Mount

Note: To ensure proper heat dissipation under normal operation, space the 20 A fuseholders 0.5" (12.7 mm) apart, center to center, when loaded to maximum capacity. Heatsinking may be required for operation in higher ambient temperatures or alternate configurations.

For specifications, see www.littelfuse.com. For additional ordering information, contact Littelfuse.

Electrical Parameters

PCB Mount Part Number	PCB Mount Flush Part Number	15 A Panel Mount Part Number	15 A * Panel Mount Flush Part Number	Number of Poles	Length Inches (Millimeters)
04820001ZXB	04820001ZXBF	04820001ZXP	04820001ZXPf	1	0.25 (6.4)
04820002ZXB	04820002ZXBF	04820002ZXP	04820002ZXPf	2	0.5 (12.8)
04820003ZXB	04820003ZXBF	04820003ZXP	04820003ZXPf	3	0.75 (19.05)
04820004ZXB	04820004ZXBF	04820004ZXP	04820004ZXPf	4	1 (25.4)
04820005ZXB	04820005ZXBF	04820005ZXP	04820005ZXPf	5	1.25 (31.75)
04820006ZXB	04820006ZXBF	04820006ZXP	04820006ZXPf	6	1.5 (38.1)
04820007ZXB	04820007ZXBF	04820007ZXP	04820007ZXPf	7	1.75 (44.45)
04820008ZXB	04820008ZXBF	04820008ZXP	04820008ZXPf	8	2 (50.8)
04820009ZXB	04820009ZXBF	04820009ZXP	04820009ZXPf	9	2.25 (57.15)
04820010ZXB	04820010ZXBF	04820010ZXP	04820010ZXPf	10	2.5 (63.5)
04820011ZXB	04820011ZXBF	04820011ZXP	04820011ZXPf	11	2.75 (69.85)
04820012ZXB	04820012ZXBF	04820012ZXP	04820012ZXPf	12	3 (76.2)
04820013ZXB	04820013ZXBF	04820013ZXP	04820013ZXPf	13	3.25 (82.55)
04820014ZXB	04820014ZXBF	04820014ZXP	04820014ZXPf	14	3.5 (88.9)
04820015ZXB	04820015ZXBF	04820015ZXP	04820015ZXPf	15	3.75 (95.25)
04820016ZXB	04820016ZXBF	04820016ZXP	04820016ZXPf	16	4 (101.6)
04820017ZXB	04820017ZXBF	04820017ZXP	04820017ZXPf	17	4.25 (107.95)
04820018ZXB	04820018ZXBF	04820018ZXP	04820018ZXPf	18	4.5 (114.3)
04820019ZXB	04820019ZXBF	04820019ZXP	04820019ZXPf	19	4.75 (120.65)
04820020ZXB	04820020ZXBF	04820020ZXP	04820020ZXPf	20	5 (127)

* To order the 20 A panel mount, use part number 0482001ZXPf.

Electronic Fuses

NOTES
