

### DESIGNED TO IEC STANDARD

## 5 x 20 mm Fast-Acting Type



- Designed to International (IEC) Standards for use globally.
- Meets the IEC 127-2, Sheet 2 specification for Fast-Acting Fuses.
- Available in Cartridge and Axial Lead Form.
- Available in ratings of 0.032 to 10 amperes.

#### ELECTRICAL CHARACTERISTICS:

% of Ampere Rating	Ampere Rating	Opening Time
150%	.032-.100	60 minutes, <b>Minimum</b>
	.125-6.3	60 minutes, <b>Minimum</b>
210%	.032-.100	30 minutes, <b>Maximum</b>
	.125-6.3	30 minutes, <b>Maximum</b>
275%	.032-.100	0.01 sec., <b>Min.</b> ; .5 sec. <b>Max.</b>
	.125-6.3	0.05 sec., <b>Min.</b> ; 2 sec. <b>Max.</b>
400%	.032-.100	.003 sec., <b>Min.</b> ; 0.1 sec. <b>Max.</b>
	.125-6.3	.01 sec., <b>Min.</b> ; 0.3 sec. <b>Max.</b>
1000%	.032-.100	.02 second, <b>Maximum</b>
	.125-6.3	.02 second, <b>Maximum</b>

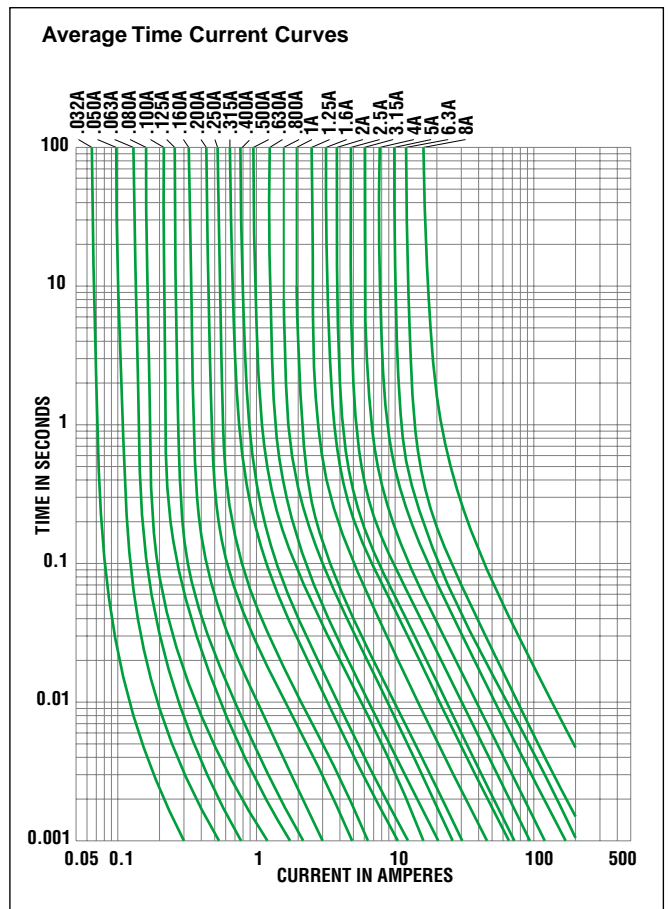
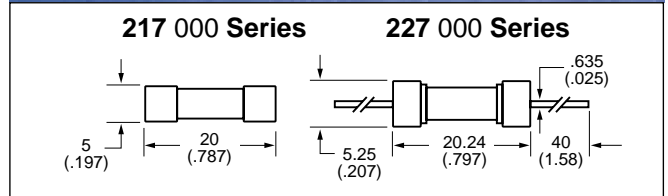
**AGENCY APPROVALS:** Sheet I IEC 127-2:\* SEMKO, VDE approved thru 6.3 amps. BSI approved 0.4-6.3 amps. Recognized under the Components Program of Underwriters Laboratories and recognized by CSA. UL recognized to 6.3A only.

**INTERRUPTING RATING:** 35 amperes or 10 x rated current; whichever is greater.

#### ORDERING INFORMATION:

Cartridge Catalog Number	Axial Lead Catalog Number	Ampere Rating	Voltage Rating	Nominal Resistance Cold Ohms	Nominal Melting I <sup>2</sup> t A <sup>2</sup> Sec.
217.032	227.032	.032	250	262.2	0.000048
217.040	227.040	.040	250	183.2	0.000074
217.050	227.050	.050	250	15.20	0.00020
217.063	227.063	.063	250	10.43	0.00057
217.080	227.080	.080	250	7.88	0.00085
217.100	227.100	.100	250	5.10	0.0034
217.125	227.125	.125	250	3.68	0.0049
217.160	227.160	.160	250	2.53	0.011
217.200	227.200	.200	250	1.65	0.025
217.250	227.250	.250	250	1.18	0.043
217.315	227.315	.315	250	0.810	0.110
217.400	227.400	.400	250	0.277	0.130
217.500	227.500	.500	250	0.210	0.225
217.630	227.630	.630	250	0.168	0.420
217.800	227.800	.800	250	0.134	0.870
217 001	227 001	1	250	0.096	1.07
217 1.25	227 1.25	1.25	250	0.070	2.29
217 01.6	227 01.6	1.6	250	0.046	4.74
217 002	227 002	2	250	0.040	5.88
217 02.5	227 02.5	2.5	250	0.033	9.72
217 3.15	227 3.15	3.15	250	0.022	18.2
217 004	227 004	4	250	0.016	30.0
217 005	227 005	5	250	0.013	43.9
217 06.3	227 06.3	6.3	250	0.0098	64.2
217 008	227 008	8*	250	0.0068	203.5
217 010	227 010	10*	250	0.0060	223.5

\*IEC Standards for 5 x 20mm fuses do not include ratings above 6.3 amperes.



### DESIGNED TO IEC STANDARD

## 5 x 20 mm Time Lag Fuse (Slo-Blo® Type Fuse)



- Designed to International (IEC) Standards for use globally.
- Meets the IEC 127-2, Sheet 3 specification for Time Lag Fuses.
- Available in Cartridge and Axial Lead Form.
- Available in ratings of 0.032 to 10 amperes.

#### ELECTRICAL CHARACTERISTICS:

% of Ampere Rating	Ampere Rating	Opening Time
150%	.032-.100	60 minutes, <b>Minimum</b>
	.125-6.3	60 minutes, <b>Minimum</b>
210%	.032-.100	2 minutes, <b>Maximum</b>
	.125-6.3	2 minutes, <b>Maximum</b>
275%	.032-.100	0.2 sec., <b>Min.</b> ; 10 sec. <b>Max.</b>
	.125-6.3	0.6 sec., <b>Min.</b> ; 10 sec. <b>Max.</b>
400%	.032-.100	.04 sec., <b>Min.</b> ; 3 sec. <b>Max.</b>
	.125-6.3	.15 sec., <b>Min.</b> ; 3 sec. <b>Max.</b>
1000%	.032-.100	.01 sec., <b>Min.</b> ; 0.3 sec. <b>Max.</b>
	.125-6.3	0.02 sec., <b>Min.</b> ; 0.3 sec. <b>Max.</b>

**AGENCY APPROVALS:** Sheet III IEC 127-\* SEMKO, VDE approved thru 6.3 amps. BSI approved 0.08-6.3 amps. Recognized under the Components Program of Underwriters Laboratories and recognized by CSA.

**VOLTAGE RATING:** 250 VAC

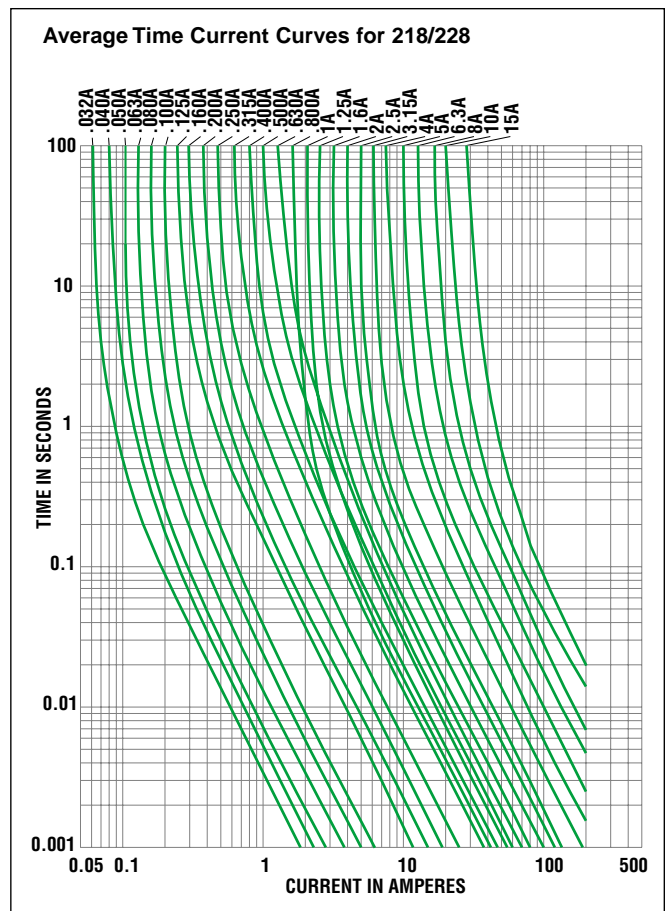
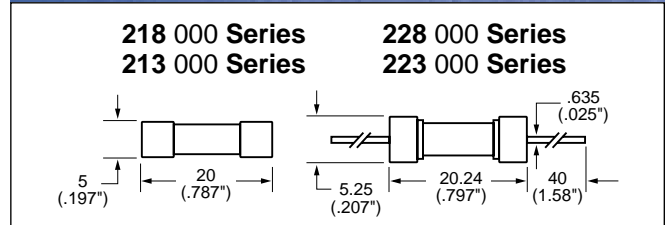
**INTERRUPTING RATINGS:** 35 amperes or 10 x rated current; whichever is greater.

#### ORDERING INFORMATION:

For axial leaded change 218 to 228 and 213 to 223.

Ampere Rating	218/228		213/223 Surge Withstand			
	Cartridge Catalog Number	Nominal Resistance Cold Ohms	Nominal Melting Pt A²Sec.	Cartridge Catalog Number	Nominal Resistance Cold Ohms	Nominal Melting Pt A²Sec.
.032	218.032	58.45	0.00305	-	-	-
.040	218.040	35.70	0.0055	-	-	-
.050	218.050	23.30	0.0071	-	-	-
.063	218.063	18.1	0.012	-	-	-
.080	218.080	12.6	0.0265	-	-	-
.100	218.100	8.95	0.0495	-	-	-
.125	218.125	4.41	0.150	-	-	-
.160	218.160	2.44	0.225	-	-	-
.200	218.200	1.60	0.350	-	-	-
.250	218.250	1.05	0.555	-	-	-
.315	218.315	0.848	1.14	-	-	-
.400	218.400	0.535	1.35	-	-	-
.500	218.500	0.370	2.90	-	-	-
.630	218.630	0.275	4.80	-	-	-
.800	218.800	0.073	1.99	0213.800	0.165	9.42
1	218 001	0.055	3.33	0213 001.	0.117	19.20
1.25	218 1.25	0.042	5.80	0213 1.25	0.081	27.15
1.6	218 01.6	0.032	10.61	0213 01.6	0.055	44.2
2	218 002	0.029	14.80	0213 002.	0.044	92.7
2.5	218 02.5	0.022	23.85	0213 02.5	0.030	138.0
3.15	218 3.15	0.017	39.20	0213 3.15	0.022	226.5
4	218 004	0.013	70.95	0213 004.	0.017	202
5	218 005	0.010	114.0	0213 005.	0.011	314
6.3	218 06.3	0.0075	204.0	0213 06.3	0.08	600
8	218 008	0.0059	350.5	-	-	-
10	218 010	0.0045	583.0	-	-	-
15	218 015	0.0030	1441.0	-	-	-

\* IEC Standards for 5x20 fuses do not include ratings above 6.3A.



Please contact Littelfuse for Average Time Current Curve for 213/223 surge withstand.

### DESIGNED TO IEC STANDARD

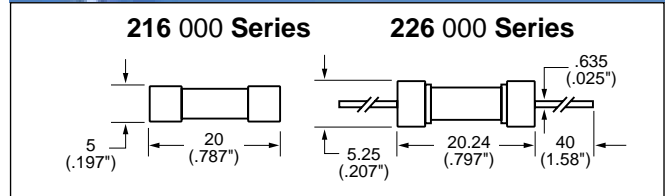
## 5 x 20 mm Fast-Acting Type



- Designed to International (IEC) Standards for use globally.
- Meets the IEC 127-2, Sheet 1 specification for Fast Acting Fuses.
- Available in Cartridge and Axial Lead Form.
- Available in ratings of 0.050 to 10 amperes.

#### ELECTRICAL CHARACTERISTICS:

% of Ampere Rating	Ampere Rating	Opening Time
150%	.05-3.15	60 minutes, <b>Minimum</b>
	4-6.3	60 minutes, <b>Minimum</b>
210%	.05-3.15	30 minutes, <b>Maximum</b>
	4-6.3	30 minutes, <b>Maximum</b>
275%	.05-3.15	0.01 sec., <b>Min.</b> ; 2 sec. <b>Max.</b>
	4-6.3	0.01 sec., <b>Min.</b> ; 3 sec. <b>Max.</b>
400%	.05-3.15	.003 sec., <b>Min.</b> ; 0.3 sec. <b>Max.</b>
	4-6.3	.003 sec., <b>Min.</b> ; 0.3 sec. <b>Max.</b>
1000%	.05-3.15	.02 seconds, <b>Maximum</b>
	4-6.3	.02 seconds, <b>Maximum</b>



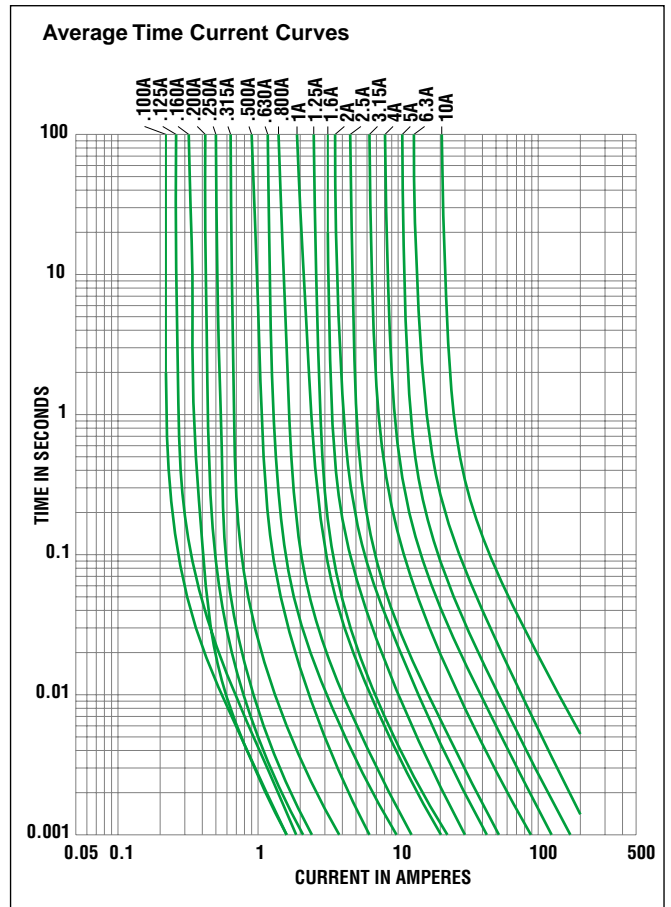
**AGENCY APPROVALS:** Sheet I IEC 127-2:\* SEMKO approved thru 6.3 amps. Recognized under the Components Program of Underwriters Laboratories and recognized by CSA.KEMA approved to 6.3A. BSI approved 1A to 6.3A. VDE approved .05-2, .315-6.3.

**INTERRUPTING RATING:** 1500 amperes.

#### ORDERING INFORMATION:

Cartridge Catalog Number	Axial Lead Catalog Number	Ampere Rating	Voltage Rating	Nominal Resistance Cold Ohms	Nominal Melting I <sup>2</sup> t A <sup>2</sup> Sec.
216.050	226.050	.050	250	15.90	0.00019
216.063	226.063	.063	250	10.45	0.00055
216.080	226.080	.080	250	7.89	0.00086
216.100	226.100	.100	250	5.42	0.0033
216.125	226.125	.125	250	3.68	0.0056
216.160	226.160	.160	250	5.20	0.0018
216.200	226.200	.200	250	3.35	0.0045
216.250	226.250	.250	250	2.35	0.0092
216.315	226.315	.315	250	1.85	0.015
216.400	226.400	.400	250	1.67	0.028
216.500	226.500	.500	250	1.20	0.045
216.630	226.630	.630	250	0.790	0.097
216.800	226.800	.800	250	0.588	0.18
216 001	226 001	1	250	0.228	0.19
216 1.25	226 1.25	1.25	250	0.153	0.49
216 01.6	226 01.6	1.6	250	0.108	1.04
216 002	226 002	2	250	0.0770	1.92
216 02.5	226 02.5	2.5	250	0.0575	2.77
216 3.15	226 3.15	3.15	250	0.0333	7.85
216 004	226 004	4	250	0.0243	15.4
216 005	226 005	5	250	0.0168	28.2
216 06.3	226 06.3	6.3	250	0.0125	57.9
216 008	226 008	8*	250	0.0120	66.1
216 010	226 010	10*	250	0.00775	158.5

\*IEC Standards for 5 x 20mm fuses do not include ratings above 6.3 amperes.



### DESIGNED TO IEC STANDARD

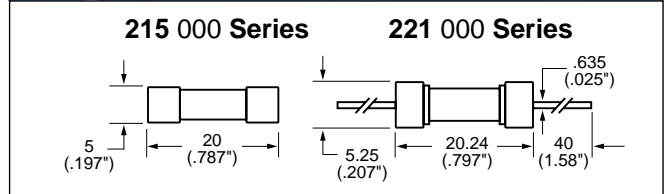
## 5 x 20 mm Time Lag Fuse (Slo-Blo® Type Fuse)



- Designed to International (IEC) Standards for use globally.
- Meets the IEC 127-2, Sheet 5 specification for Time Lag Fuses.
- Available in Cartridge and Axial Lead Form.
- Available in ratings of .2 to 10 amperes.

#### ELECTRICAL CHARACTERISTICS:

% of Ampere Rating	Ampere Rating	Opening Time
150%	1-3.15	60 minutes, <b>Minimum</b>
	4-6.3	60 minutes, <b>Minimum</b>
210%	1-3.15	30 minutes, <b>Maximum</b>
	4-6.3	30 minutes, <b>Maximum</b>
275%	1-3.15	1 sec., <b>Min.</b> ; 80 sec. <b>Max.</b>
	4-6.3	1 sec., <b>Min.</b> ; 80 sec. <b>Max.</b>
400%	1-3.15	.095 sec., <b>Min.</b> ; 5 sec. <b>Max.</b>
	4-6.3	.150 sec., <b>Min.</b> ; 5 sec. <b>Max.</b>
1000%	.2-.4	.010 sec., <b>Min.</b> ; .15 sec., <b>Max.</b>
	.5-3.15	.010 sec., <b>Min.</b> ; .1 sec., <b>Max.</b>
	4-6.3	.020 sec., <b>Min.</b> ; .1 sec. <b>Max.</b>



**AGENCY APPROVALS:** Sheet V IEC 127:\* SEMKO approved 1A-6.3A. BSI and VDE approved 1.0-6.3 amps. MITI approved 1-10A. Recognized under the Components Program of Underwriters Laboratories and recognized by CSA.

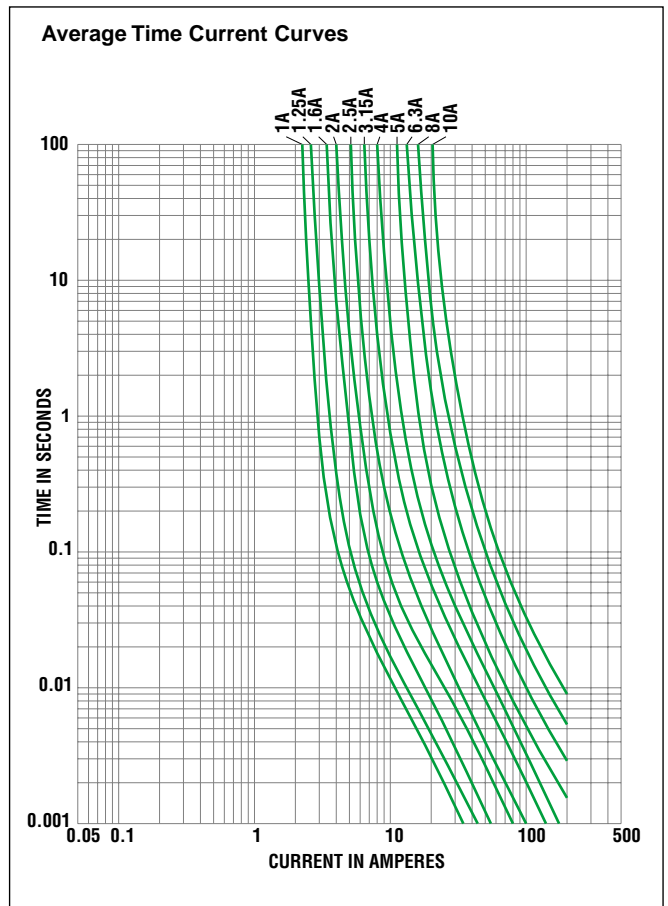
**INTERRUPTING RATING:** 1500 amperes.

#### ORDERING INFORMATION:

Cartridge Catalog Number	Axial Lead Catalog Number	Ampere Rating	Voltage Rating	Nominal Resistance Cold Ohms	Nominal Melting I <sup>2</sup> t A <sup>2</sup> Sec.
215.200	221.200	.200*	250	2.080	0.33
215.250	221.250	.250*	250	1.920	0.56
215.315	221.315	.315*	250	0.800	0.90
215.400	221.400	.400*	250	0.560	1.45
215.500	221.500	.500*	250	0.880	0.44
215.630	221.630	.630*	250	0.560	0.65
215.800	221.800	.800*	250	0.480	1.18
215 001	221 001	1	250	0.110	1.05
215 1.25	221 1.25	1.25	250	0.085	2.05
215 01.6	221 01.6	1.6	250	0.0588	3.90
215 002	221 002	2	250	0.043	6.95
215 02.5	221 02.5	2.5	250	0.0312	10.65
215 3.15	221 3.15	3.15	250	0.0220	21.2
215 004	221 004	4	250	0.0163	38.7
215 005	221 005	5	250	0.0125	82.85
215 06.3	221 06.3	6.3	250	0.0099	132.5
215 008	221 008	8*	250	0.0078	209.5
215 010	221 010	10*	250	0.0060	360.5

\*IEC Standards for 5 x 20mm fuses do not include ratings above 6.3 amperes.

IEC 127-2, Sheet 5 does not include ratings below 1 ampere (under consideration by IEC).





### DESIGNED TO MEET UL/CSA STANDARDS

## 5 x 20 mm Fast-Acting Type



- Designed to UL/CSA/ANCE 248 Standard.
- Available in Cartridge and Axial Lead Format.
- Available in ratings of 0.100 to 6 amperes.

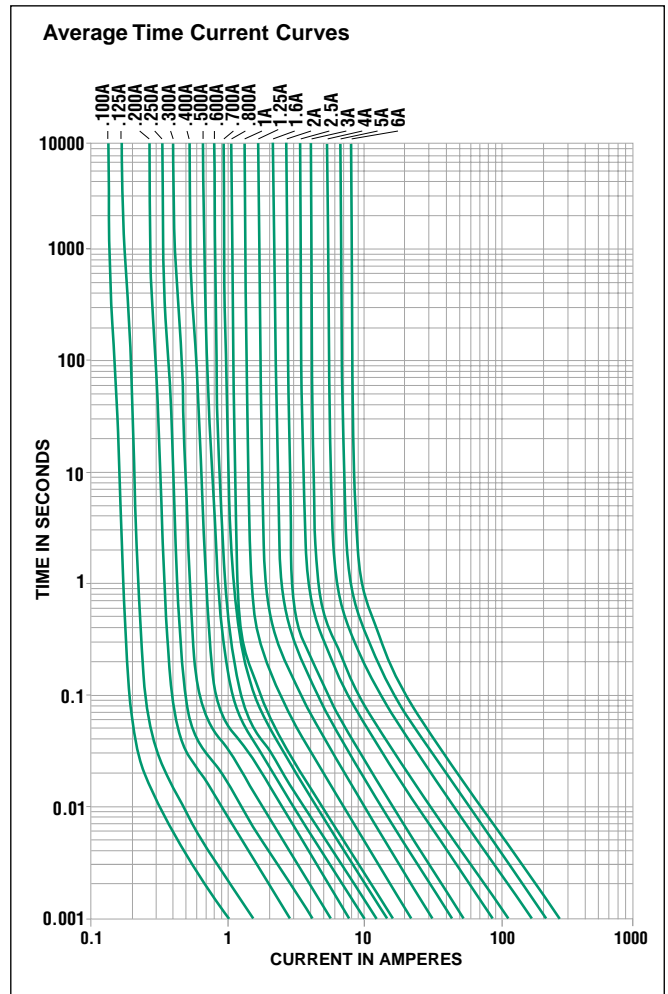
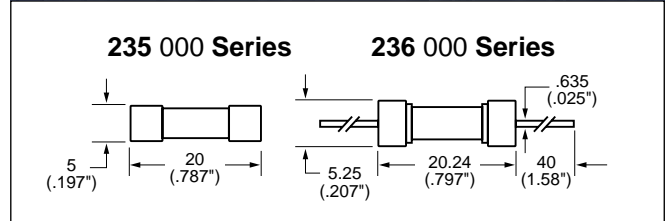
#### ELECTRICAL CHARACTERISTICS:

% of Ampere Rating	Opening Time
110%	4 hours, <b>Minimum</b>
135%	1 hour, <b>Maximum</b>
200%	1 second, <b>Maximum</b>

**AGENCY APPROVALS:** Listed by Underwriters Laboratories and Certified by CSA. Approved by MITI from 1 through 5 amperes.

#### ORDERING INFORMATION:

Cartridge Catalog Number	Axial Lead Catalog Number	Ampere Rating	Voltage Rating	Nominal Resistance Cold Ohms	Nominal Melting I <sup>2</sup> t A <sup>2</sup> Sec.
235.100	236.100	.100	250	8.40	0.00160
235.125	236.125	.125	250	5.75	0.00280
235.200	236.200	.200	250	3.15	0.00890
235.250	236.250	.250	250	2.25	0.0170
235.300	236.300	.300	250	1.60	0.0330
235.400	236.400	.400	250	1.08	0.0600
235.500	236.500	.500	250	0.455	0.0710
235.600	236.600	.600	250	0.318	0.115
235.700	236.700	.700	250	0.263	0.160
235.800	236.800	.800	250	0.195	0.260
235 001	236 001	1	250	0.153	0.480
235 1.25	236 1.25	1.25	250	0.106	1.12
235 01.6	236 01.6	1.6	250	0.0775	2.08
235 002	236 002	2	250	0.0600	2.72
235 02.5	236 02.5	2.5	250	0.0438	5.59
235 003	236 003	3	250	0.0348	8.62
235 004	236 004	4	125	0.0248	17.60
235 005	236 005	5	125	0.0185	28.15
235 006	236 006	6	125	0.0150	48.60



### DESIGNED TO MEET UL/CSA STANDARDS

## 5 x 20 mm Time Lag Fuse (Slo-Blo® Type Fuse)



- Designed to UL/CSA/ANCE 248 Standard.
- Available in Cartridge and Axial Lead Format.
- Available in ratings of 0.200 to 5 amperes.

#### ELECTRICAL CHARACTERISTICS:

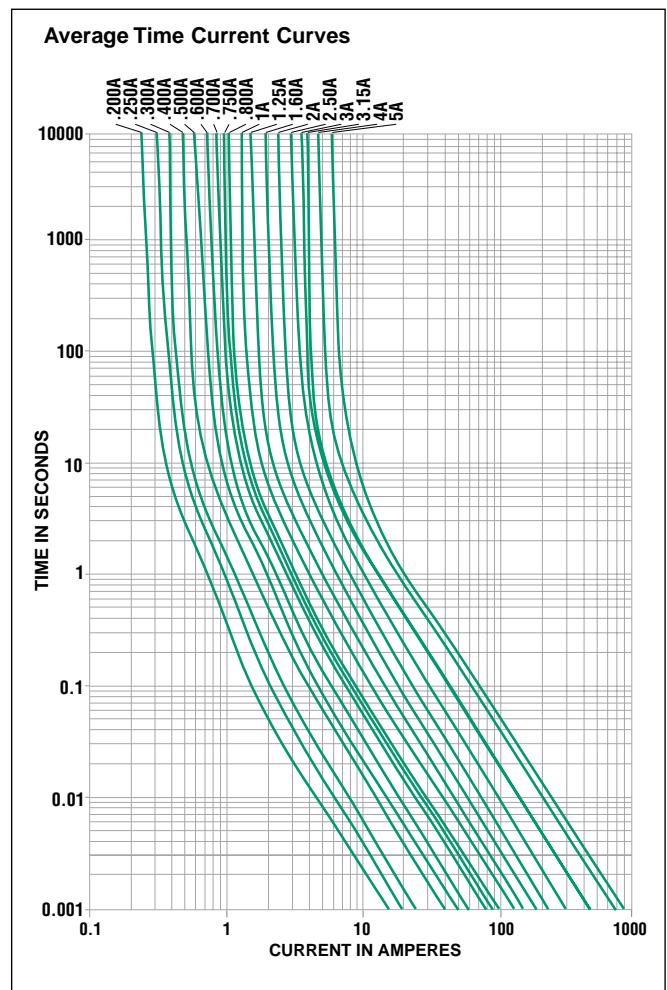
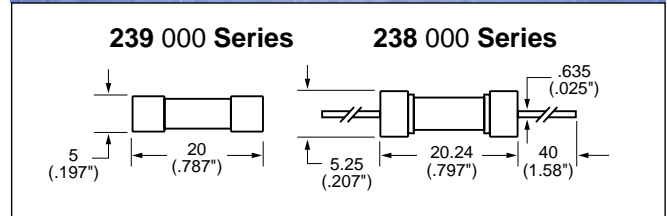
% of Ampere Rating	Opening Time
110%	4 hours, <b>Minimum</b>
135%	1 hour, <b>Maximum</b>
200%	5 seconds, <b>Minimum</b>

**AGENCY APPROVALS:** Listed by Underwriters Laboratories and Certified by CSA. Approved by MITI from 1 through 5 amperes.

#### PATENTED

#### ORDERING INFORMATION:

Cartridge Catalog Number	Axial Lead Catalog Number	Ampere Rating	Voltage Rating	Nominal Resistance Cold Ohms	Nominal Melting I <sup>2</sup> t A <sup>2</sup> Sec.
239.200	238.200	.200	250	8.40	0.170
239.250	238.250	.250	250	3.00	0.3508
239.300	238.300	.300	250	2.25	0.630
239.400	238.400	.400	250	1.46	1.53
239.500	238.500	.500	250	0.865	2.04
239.600	238.600	.600	250	0.688	2.48
239.700	238.700	.700	250	0.550	4.23
239.750	238.750	.750	250	0.453	5.57
239.800	238.800	.800	250	0.403	7.77
239 001	238 001	1	250	0.313	11.60
239 1.25	238 1.25	1.25	250	0.200	20.05
239 01.6	238 01.6	1.60	250	0.122	31.25
239 002	238 002	2	250	0.0975	51.95
239 02.5	238 02.5	2.50	250	0.053	81.85
239 003	238 003	3	250	0.0480	133.0
239 3.15	238 3.15	3.15	250	0.0425	131.5
239 004	238 004	4	125	0.0313	278.0
239 005	238 005	5	125	0.0208	311.0



### DESIGNED TO IEC STANDARD

## 5 x 20 mm Time Lag Fuse (Slo-Blo® Type Fuse)



- Designed to International (IEC) Standards for use globally.
- Meets the IEC 127-2, Sheet 6 specification for Time Lag Fuses.
- Available in Cartridge and Axial Lead Format.
- Available in ratings of 0.125 to 6.3 amperes.

#### ELECTRICAL CHARACTERISTICS:

% of Ampere Rating	Opening Time
150%	60 minutes, <b>Minimum</b>
210%	2 minutes, <b>Maximum</b>
275%	0.6 sec., <b>Min.</b> ; 10 sec. <b>Max</b>
400%	.15 sec., <b>Min.</b> ; 3 sec. <b>Max</b>
1000%	0.02 sec., <b>Min.</b> ; 0.3 sec. <b>Max.</b>

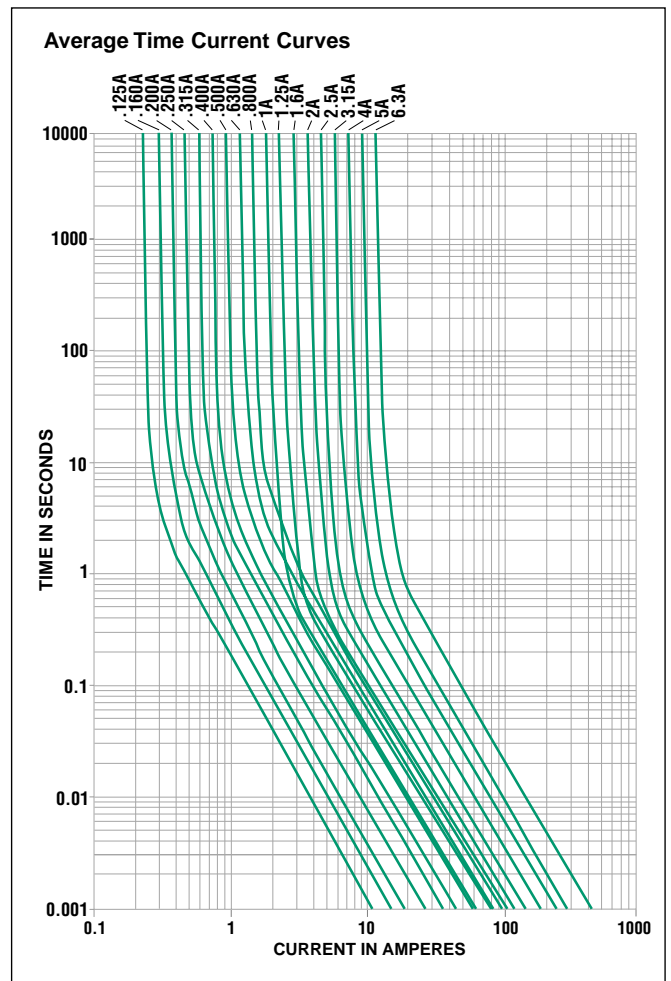
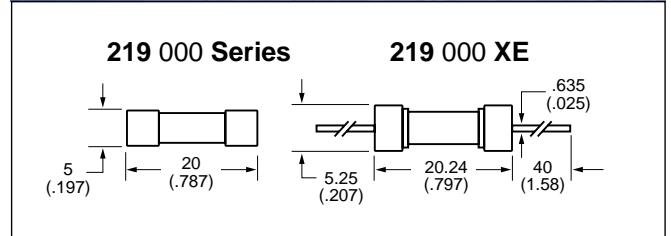
**AGENCY APPROVALS:** Sheet 6 IEC 127: SEMKO, BSI and VDE approved. Recognized 1A to 6.3A under the components program of Underwriters Laboratories and recognized by CSA. MITI A 1A to 6.3A.

**INTERRUPTING RATINGS:** 150 amperes

**PACKAGING:** For Axial Leads add packaging suffix XE.

#### ORDERING INFORMATION:

Catalog Number	Ampere Rating	Nominal Voltage Rating	Nominal Resistance Cold Ohms	Nominal Melting I <sup>2</sup> t A <sup>2</sup> Sec
0219.125	.125	250	4.41	0.150
0219.160	.160	250	2.44	0.225
0219.200	.200	250	1.60	0.350
0219.250	.250	250	1.05	0.555
0219.315	.315	250	0.848	1.14
0219.400	.400	250	0.535	1.35
0219.500	.500	250	0.370	2.90
0219.630	.630	250	0.275	4.80
0219.800	.800	250	0.163	9.42
0219 001.	1	250	0.055	3.33
0219 1.25	1.25	250	0.042	5.80
0219 01.6	1.6	250	0.032	10.61
0219 002.	2	250	0.029	14.80
0219 02.5	2.5	250	0.022	23.85
0219 3.15	3.15	250	0.017	39.20
0219 004.	4	250	0.013	70.95
0219 005.	5	250	0.010	114.0
0219 06.3	6.3	250	0.0075	204.0



### DESIGNED TO UL/CSA STANDARD

## 5 x 20 mm Medium Acting Fuse



- Designed to UL/ CSA/ANCE 248 Standard.
- Available in Cartridge, Axial and Radial Lead Format.
- Available in ratings of 1A to 6.3A.

#### ELECTRICAL CHARACTERISTICS:

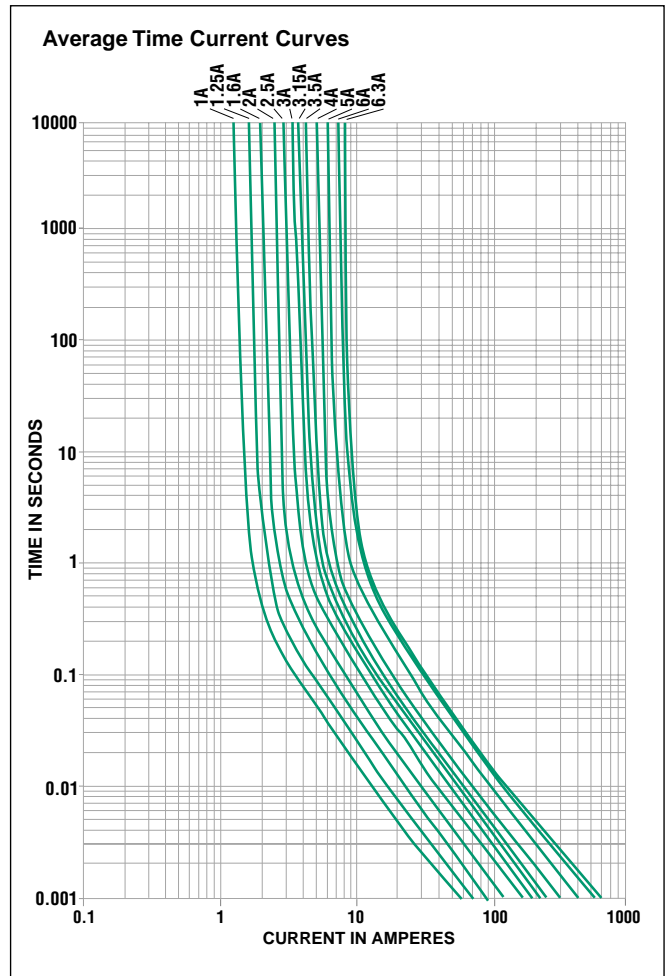
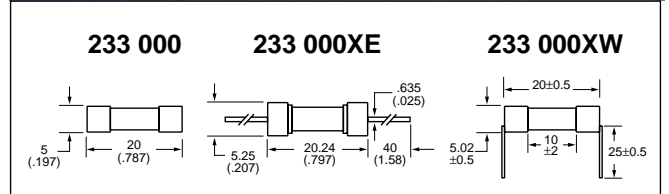
% of Ampere Rating	Ampere Rating	Opening Time
110%	1-3.5	4 hours, <b>Minimum</b>
	4-6.3	1 hour, <b>Minimum</b>
135%	1-6.3	1 hour, <b>Maximum</b>
200%	1-6.3	3 seconds, <b>Maximum</b>

**AGENCY APPROVALS:** Listed by Underwriters Laboratories and Certified by CSA. Approved by MITI.

**PACKAGING:** For Axial Leads add packaging suffix XE. For Radial Leads add packaging suffix XW. For tape and reel options contact Littelfuse.

#### ORDERING INFORMATION:

Catalog Number	Ampere Rating	Voltage Rating	Nominal Resistance Cold Ohms	Nominal Melting I <sup>2</sup> t A <sup>2</sup> Sec
0233 001	1	250	0.18	2.03
0233 1.25	1.25	250	0.13	3.48
0233 01.6	1.6	250	0.088	6.31
0233 002.	2	250	0.068	10.2
0233 02.5	2.5	250	0.052	17.5
0233 003.	3	250	0.043	27.0
0233 3.15	3.15	250	0.038	30.6
0233 03.5	3.5	250	0.034	37.3
0233 004.	4	125	0.032	53.0
0233 005.	5	125	0.022	92.4
0233 006.	6	125	0.018	135
0233 06.3	6.3	125	0.017	156





### DESIGNED TO MITI STANDARD

## 5 x 20 mm Medium Acting Fuse



- Designed to Japanese Standard JIS C6575.
- Available in Cartridge, Axial and Radial Lead Format.
- Available in ratings of 500mA to 10A.

#### ELECTRICAL CHARACTERISTICS:

% of Ampere Rating	Opening Time
130%	1 hour, <b>Minimum</b>
160%	1 hour, <b>Maximum</b>
200%	2 minutes, <b>Maximum</b>

**AGENCY APPROVALS:** MITI B Approval.

#### INTERRUPTING RATING:

500 amperes at 125 VAC  
100 amperes at 250 VAC

**PACKAGING:** For Axial Leads add packaging suffix XE. For Radial Leads add packaging suffix XW. For tape and reel options contact Littelfuse.

#### ORDERING INFORMATION:

Catalog Number	Ampere Rating	Voltage Rating	Nominal Resistance Cold Ohms	Nominal Melting I <sup>2</sup> t A <sup>2</sup> Sec
0232.500*	.500	250	0.60	1.11
0232.630*	.630	250	0.46	2.18
0232.800*	.800	250	0.48	3.59
0232 001.	1	250	0.0957	1.41
0232 1.25	1.25	250	0.0707	4.22
0232 01.6	1.6	250	0.0567	7.14
0232 002.	2	250	0.0385	8.47
0232 02.5	2.5	250	0.0297	14.25
0232 003.	3	250	0.0257	17.65
0232 3.15	3.15	250	0.0235	22.55
0232 004.	4	250	0.018	38.75
0232 005.	5	250	0.0145	58.25
0232 06.3	6.3	250	0.0105	92.85
0232 008.	8	250	.0076	187.5
0232 010.	10	250	.0061	298.5

\*Japanese Standards for 5 x 20 mm fuses do not include ratings below 1 ampere.

