

Axial Lead and Cartridge Fuses

Subminiature

AC Fast-Acting Type

UL SP QPL

Fast-acting fuses designed for use in circuits with high AC fault current capacity or where military approval is required.

ELECTRICAL CHARACTERISTICS:

% of Ampere Rating	Ampere Rating	Opening Time
110%	1/10–30	4 hours, Minimum
135%	1/10–30	1 hour, Maximum
200%	1/10–4	2 seconds, Maximum
	5–12	15 seconds, Maximum
	15–30	2 minutes, Maximum

AGENCY APPROVALS: Listed by Underwriters Laboratories and Certified by CSA from 3/10 through 30 amperes.

KLK INTERRUPTING RATING:

100,000 amperes (capable of 200,000) at 600VAC.

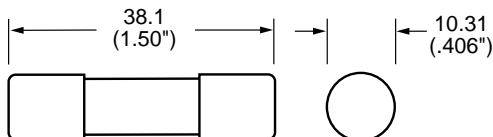
MILITARY TYPE F60C INTERRUPTING RATINGS:

200,000 amperes at 500VAC

150,000 amperes at 500VDC

FUSES TO MIL SPEC: See F60C type in Military Section.

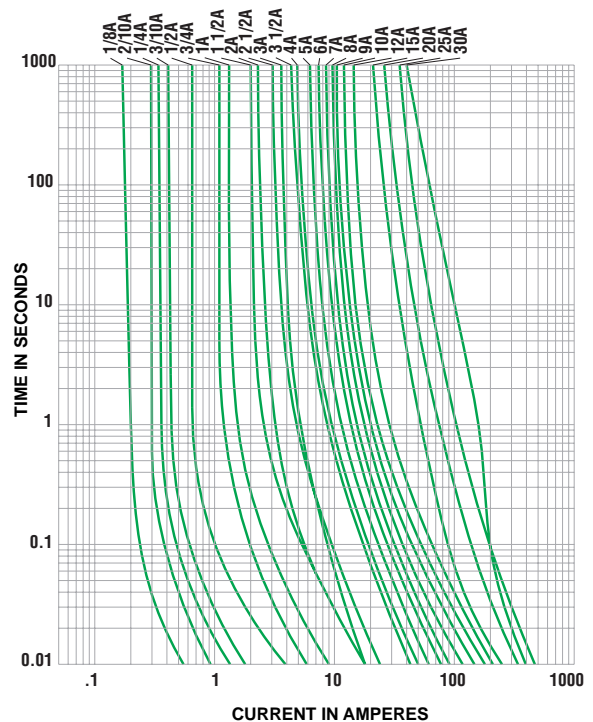
PATENTED



ORDERING INFORMATION:

Cartridge Catalog Number	Ampere Rating	Voltage Rating	Nominal Resistance Cold Ohms
KLK 1/10	.100	600	85.5
KLK 1/8	.125	600	65.0
KLK 2/10	.200	600	30.9
KLK 1/4	.250	600	22.0
KLK 3/10	.300	600	16.2
KLK 1/2	.500	600	7.99
KLK 3/4	.750	600	.398
KLK 1	1	600	.249
KLK 1 1/2	1.5	600	.132
KLK 2	2	600	.129
KLK 2 1/2	2.5	600	.0989
KLK 3	3	600	.0773
KLK 3 1/2	3.5	600	.0613
KLK 4	4	600	.0511
KLK 5	5	600	.0261
KLK 6	6	600	.0261
KLK 7	7	600	.0205
KLK 8	8	600	.0194
KLK 9	9	600	.0166
KLK 10	10	600	.0128
KLK 12	12	600	.0103
KLK 15	15	600	.0073
KLK 20	20	600	.00421
KLK 25	25	600	.00302
KLK 30	30	600	.002816

Average Time Current Curves



DC Fast-Acting Type



Fast-acting fuses designed for use in circuits with DC fault currents up to 10,000 amperes. Same AC interrupting ratings as KLK series.

ELECTRICAL CHARACTERISTICS:

% of Ampere Rating	Ampere Rating	Opening Time
110%	1/10–30	4 hours, Minimum
135%	1/10–30	1 hour, Maximum
200%	1/10–4	2 seconds, Maximum
	5–12	15 seconds, Maximum
	15–30	2 minutes, Maximum

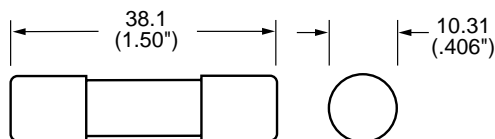
AGENCY APPROVALS: Listed by Underwriters Laboratories and Certified by CSA from 3/10 through 30 amperes.

INTERRUPTING RATINGS:

10,000 amperes at 500 VDC.
100,000 amperes (capable of 200,000) at 600VAC.

FUSES TO MIL SPEC: See **KLK Series** for QPL fuses with DC ratings.

PATENTED

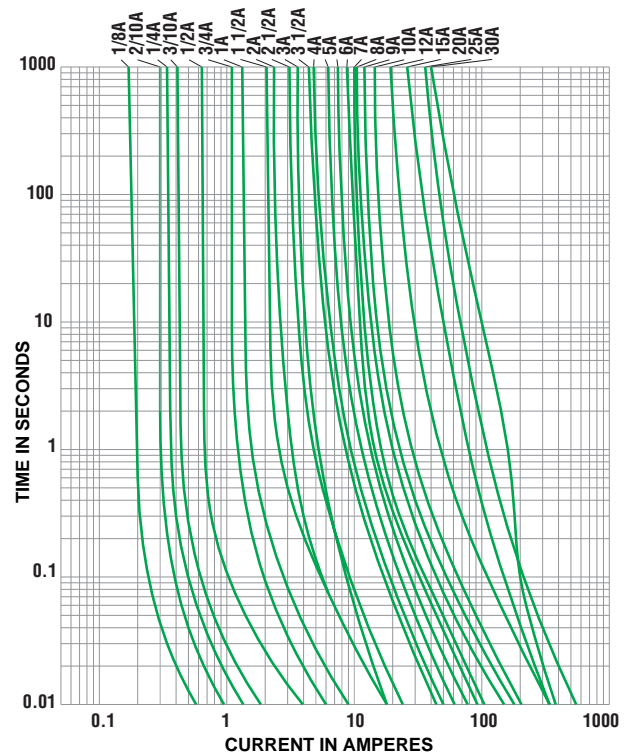


ORDERING INFORMATION:

Cartridge Catalog Number	Ampere Rating	AC Voltage Rating	Nominal Resistance Cold Ohms
KLK D 1/10	.100	600	85.5
KLK D 1/8	.125	600	65.0
KLK D 2/10	.200	600	30.9
KLK D 1/4	.250	600	22.0
KLK D 3/10	.300	600	16.2
KLK D 1/2	.500	600	8.16
KLK D 3/4	.750	600	.402
KLK D 1	1	600	.252
KLK D 1 1/2	1.5	600	.134
KLK D 2	2	600	.124
KLK D 2 1/2	2.5	600	.0989
KLK D 3	3	600	.0773
KLK D 3 1/2	3.5	600	.0613
KLK D 4	4	600	.0511
KLK D 5	5	600	.0363
KLK D 6	6	600	.0261
KLK D 7	7	600	.0205
KLK D 8	8	600	.0194
KLK D 9	9	600	.0166
KLK D 10	10	600	.0128
KLK D 12	12	600	.0103
KLK D 15	15	600	.0078
KLK D 20	20	600	.0045
KLK D 25	25	600	.00329
KLK D 30	30	600	.002816

AXIAL LEAD AND CARTRIDGE FUSES

Average Time Current Curves



Axial Lead and Cartridge Fuses

Subminiature

250 Volt Slo-Blo® Type Fuse

UL SP QPL

ELECTRICAL CHARACTERISTICS:

% of Ampere Rating	Opening Time
110%	4 hours, Minimum
135%	1 hour, Maximum
200%	12 seconds, Minimum

AGENCY APPROVALS: Listed by Underwriters Laboratories and Certified by CSA.

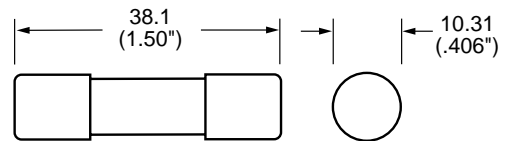
INTERRUPTING RATING: 10,000 amperes at 250 VAC.

FUSES TO MIL SPEC: See F09B type in Military Section.

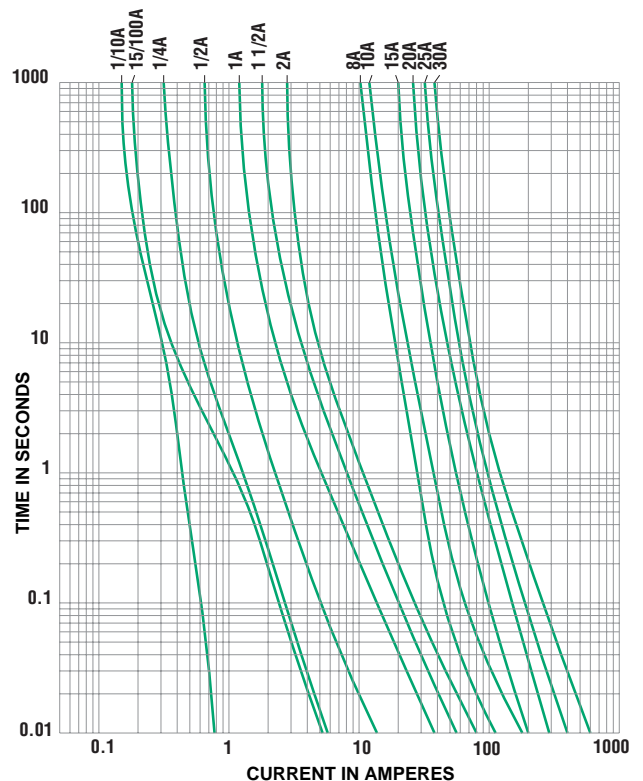
PATENTED

ORDERING INFORMATION:

Cartridge Catalog Number	Ampere Rating	AC Voltage Rating	Nominal Resistance Cold Ohms
FLM 1/10	.100	250	188.0
FLM 15/100	.150	250	87.0
FLM 2/10	.200	250	35.1
FLM 1/4	.250	250	5.40
FLM 3/10	.300	250	3.79
FLM 4/10	.400	250	2.10
FLM 1/2	.500	250	1.54
FLM 6/10	.600	250	1.024
FLM 8/10	.800	250	.623
FLM 1	1	250	.395
FLM 1 ¹ / ₈	1.125	250	.356
FLM 1 ¹ / ₄	1.25	250	.286
FLM 1 ⁴ / ₁₀	1.4	250	.253
FLM 1 ¹ / ₂	1.5	250	.219
FLM 1 ⁹ / ₁₀	1.6	250	.184
FLM 1 ⁸ / ₁₀	1.8	250	.162
FLM 2	2	250	.125
FLM 2 ¹ / ₄	2.25	250	.102
FLM 2 ¹ / ₂	2.5	250	.0904
FLM 2 ⁹ / ₁₀	2.8	250	.0735
FLM 3	3	250	.0700
FLM 3 ² / ₁₀	3.2	250	.0576
FLM 3 ¹ / ₂	3.5	250	.0517
FLM 4	4	250	.0426
FLM 4 ¹ / ₂	4.5	250	.0360
FLM 5	5	250	.0413
FLM 5 ⁶ / ₁₀	5.6	250	.0326
FLM 6	6	250	.0280
FLM 6 ¹ / ₄	6.25	250	.0277
FLM 7	7	250	.02133
FLM 8	8	250	.01247
FLM 9	9	250	.01066
FLM 10	10	250	.00903
FLM 12	12	250	.00698
FLM 15	15	250	.00530
FLM 20	20	250	.00385
FLM 25	25	250	.00275
FLM 30	30	250	.00226



Average Time Current Curves



500 Volt Slo-Blo® Type Fuse



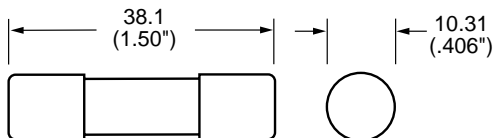
ELECTRICAL CHARACTERISTICS:

% of Ampere Rating	Opening Time
110%	4 hours, Minimum
135%	1 hour, Maximum
200%	12 seconds, Minimum

AGENCY APPROVALS: Listed by Underwriters Laboratories and Certified by CSA.

INTERRUPTING RATING: 10,000 amperes at 500 VAC.

PATENTED



ORDERING INFORMATION:

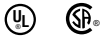
Cartridge Catalog Number	Ampere Rating	AC Voltage Rating	Nominal Resistance Cold Ohms
FLQ 1/10	.100	500	188.0
FLQ 1/8	.125	500	125.9
FLQ 15/100	.150	500	87.0
FLQ 3/16	.187	500	45.5
FLQ 2/10	.200	500	35.1
FLQ 1/4	.250	500	9.7
FLQ 3/10	.300	500	7.4
FLQ 4/10	.400	500	4.33
FLQ 1/2	.500	500	2.76
FLQ 6/10	.600	500	1.88
FLQ 8/10	.800	500	1.03
FLQ 1	1	500	.7864
FLQ 1 1/8	1.125	500	.652
FLQ 1 1/4	1.25	500	.509
FLQ 1 1/2	1.5	500	.3835
FLQ 1 5/10	1.6	500	.296
FLQ 2	2	500	.2086
FLQ 2 1/4	2.25	500	.1563
FLQ 2 1/2	2.5	500	.1381
FLQ 3	3	500	.0954
FLQ 3 2/10	3.2	500	.0938
FLQ 3 1/2	3.5	500	.0732
FLQ 4	4	500	.0618
FLQ 4 1/2	4.5	500	.0463
FLQ 5	5	500	.0348
FLQ 5 5/10	5.6	500	.0327
FLQ 6	6	500	.0284
FLQ 6 1/4	6.25	500	.0263
FLQ 7	7	500	.0212
FLQ 8	8	500	.01830
FLQ 9	9	500	.01540
FLQ 10	10	500	.01563
FLQ 12	12	500	.01176
FLQ 14	14	500	.00740
FLQ 15	15	500	.00690
FLQ 20	20	500	.004063
FLQ 25	25	500	.002920
FLQ 30	30	500	.002816

AXIAL LEAD AND CARTRIDGE FUSES

Axial Lead and Cartridge Fuses

Subminiature

1 3/8" Long Fast-Acting Type Fuse



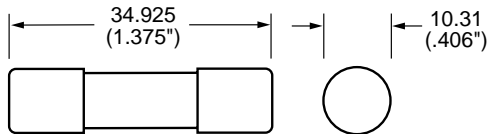
ELECTRICAL CHARACTERISTICS:

% of Ampere Rating	Ampere Rating	Opening Time
100%	2 ¹ / ₁₀ -10	4 hours, Minimum
135%	2 ¹ / ₁₀ -10	1 hour, Maximum
200%	2 ¹ / ₁₀ -5	5 seconds, Maximum
	6-10	10 seconds, Maximum

AGENCY APPROVALS: Listed by Underwriters Laboratories from 1/2 through 5 amperes and Certified by CSA from 1/2 through 5 amperes.

INTERRUPTING RATING: 10,000 amperes at rated VAC.

PATENTED



ORDERING INFORMATION:

Cartridge Catalog Number	Ampere Rating	AC Voltage Rating	Nominal Resistance Cold Ohms
BLS 2/10	.200	600	36
BLS 4/10	.400	600	11.5
BLS 1/2	.500	600	1.25
BLS 3/4	.750	600	.591
BLS 8/10	.800	600	.524
BLS 1	1	600	.944
BLS 1 1/2	1.5	600	.190
BLS 1 9/10	1.6	600	.180
BLS 1 8/10	1.8	600	.143
BLS 2	2	600	.2608
BLS 3	3	600	.10625
BLS 4	4	600	.0464
BLS 5	5	600	.0330
BLS 6	6	250	.0182
BLS 7	7	250	.1045
BLS 8	8	250	.012
BLS 10	10	250	.0081

Slo-Blo[®] Indicating Type Fuse



ELECTRICAL CHARACTERISTICS:

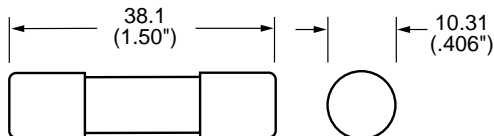
% of Ampere Rating	Opening Time
110%	4 hours, Minimum
135%	1 hour, Maximum

AGENCY APPROVALS: Listed by Underwriters Laboratories.

INTERRUPTING RATING: 10,000 amperes at rated VAC.

INDICATING PIN: Extends 0.3" when fuse opens.

NOTE: Fuses rated 12-30 amperes have dual tube construction.



ORDERING INFORMATION:

Catalog Number	Ampere Rating	Nominal Resistance Cold Ohms	Catalog Number	Ampere Rating	Nominal Resistance Cold Ohms	AC Voltage Rating
FLA 1/10	.100	200.0	FLA 5	5	.06304	125
FLA 15/100	.15	88.90	FLA 5 9/10	5.6	.05194	125
FLA 2/10	.200	50.00	FLA 6	6	.04253	125
FLA 1/4	.250	32.00	FLA 6 1/4	6.25	.03794	125
FLA 3/10	.300	22.20	FLA 7	7	.03146	125
FLA 4/10	.400	11.39	FLA 8	8	.01890	125
FLA 1/2	.500	8.00	FLA 10	10	.01387	125
FLA 6/10	.600	5.55	FLA 12	12	.00689	125
FLA 8/10	.800	3.65	FLA 15	15	.00530	125
FLA 1	1	1.9504	FLA 20	20	.00385	125
FLA 1 1/8	1.125	1.7004	FLA 25	25	.00275	125
FLA 1 1/4	1.250	1.4004	FLA 30	30	.00226	125
FLA 1 1/10	1.4	1.1204				125
FLA 1 1/2	1.5	.8204				125
FLA 1 9/10	1.6	.7027				125
FLA 1 8/10	1.8	.5637				125
FLA 2	2	.4627				125
FLA 2 1/4	2.25	.3557				125
FLA 2 1/2	2.5	.2599				125
FLA 2 9/10	2.8	.2048				125
FLA 3	3	.1816				125
FLA 3 2/10	3.2	.1587				125
FLA 3 1/2	3.5	.1195				125
FLA 4	4	.09772				125
FLA 4 1/2	4.5	.07875				125

Laminated Body Fast-Acting Type



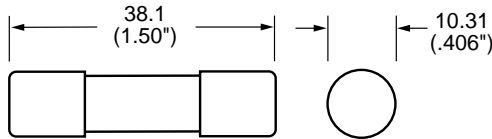
ELECTRICAL CHARACTERISTICS:

% of Ampere Rating	Opening Time
110%	4 hours, Minimum
135%	1 hour, Maximum
200%	30 seconds, Maximum

AGENCY APPROVALS: Listed by Underwriters Laboratories and Certified by CSA.

INTERRUPTING RATING: 10,000 amperes at rated VAC.

NOTE: Not recommended for applications in humid areas.



ORDERING INFORMATION:

Cartridge Catalog Number	Ampere Rating	AC Voltage Rating	Nominal Resistance Cold Ohms
BLF 1/2	.500	250	1.57
BLF 1	1	250	.395
BLF 1½	1.5	250	.2191
BLF 2	2	250	.125
BLF 2½	2.5	250	.0946
BLF 3	3	250	.0696
BLF 4	4	250	.0432
BLF 5	5	250	.0413
BLF 6	6	260	.02842
BLF 6¼	6.25	250	.02741
BLF 7	7	250	.02282
BLF 8	8	250	.01664
BLF 9	9	250	.01364
BLF 10	10	250	.01097
BLF 12	12	250	.00920
BLF 15	15	250	.00684
BLF 20	20	125	.00528
BLF 25	25	125	.00378
BLF 30	30	125	.00289

AXIAL LEAD AND CARTRIDGE FUSES

Fibre Body Fast-Acting Type



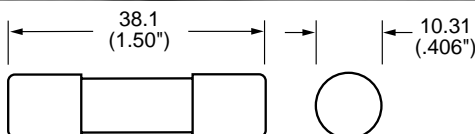
ELECTRICAL CHARACTERISTICS:

% of Ampere Rating	Opening Time
110%	4 hours, Minimum
135%	1 hour, Maximum
200%	30 seconds, Maximum

AGENCY APPROVALS: Listed by Underwriters Laboratories and Certified by CSA.

INTERRUPTING RATING: 10,000 amperes at 250 VAC.

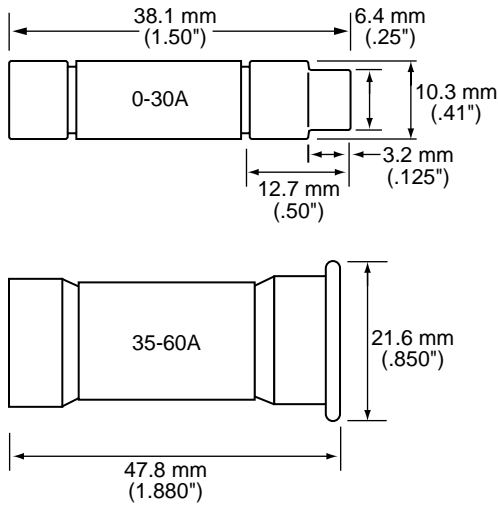
FUSES TO MIL SPEC: See F09A type in Military Section.



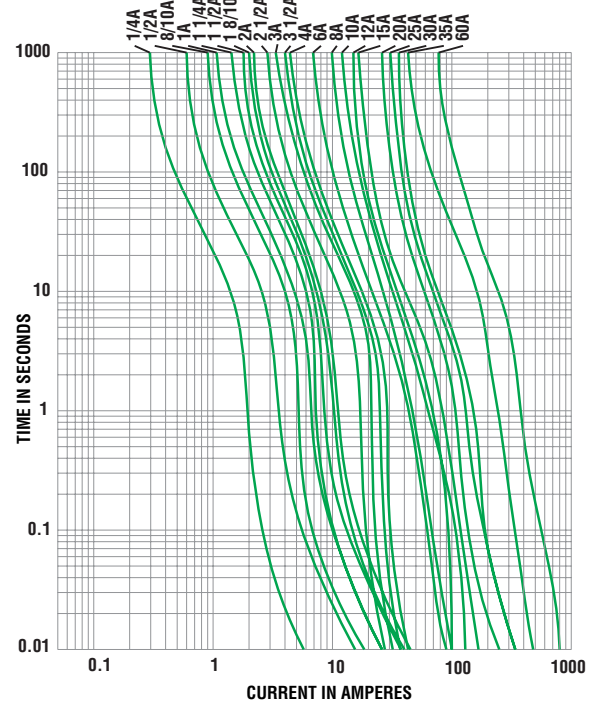
ORDERING INFORMATION:

Cartridge Catalog Number	Ampere Rating	AC Voltage Rating	Nominal Resistance Cold Ohms
BLN 1	1	250	.395
BLN 2	2	250	.222
BLN 3	3	250	.125
BLN 4	4	250	.071
BLN 5	5	250	.0432
BLN 6	6	250	.0413
BLN 8	8	250	.0284
BLN 10	10	250	.0166
BLN 12	12	250	.011
BLN 15	15	250	.00920
BLN 20	20	250	.00684
BLN 25	25	250	.00270
BLN 30	30	250	.00230

Class CC Fast-Acting & Slo-Blo[®] Type Fuses

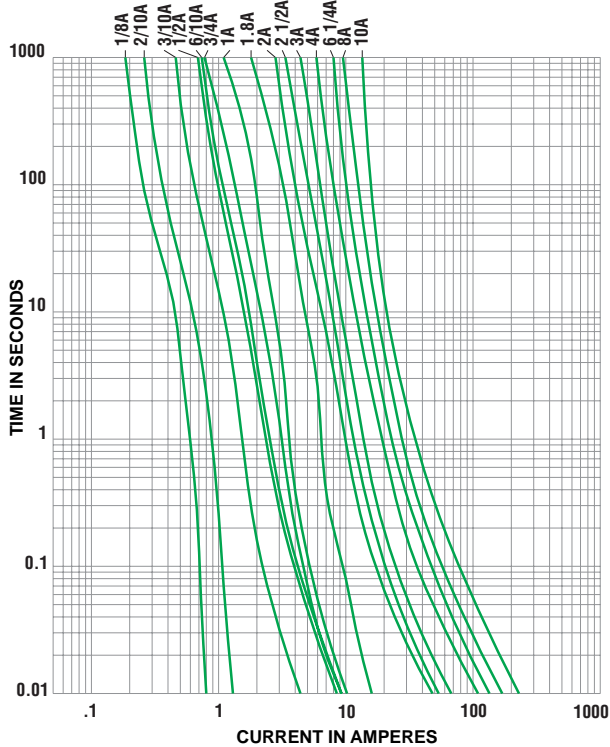


Average Time Current Curve (CCMR)

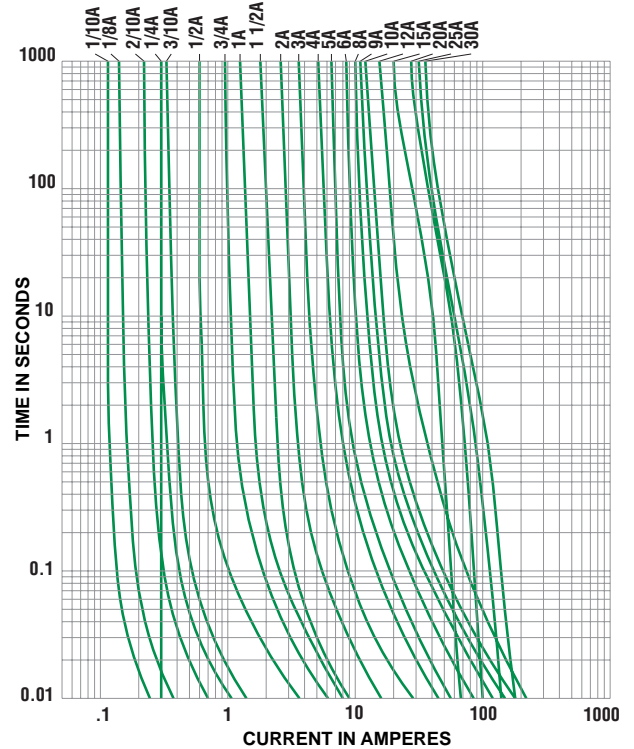


AXIAL LEAD AND CARTRIDGE FUSES

Average Time Current Curve (KLDR)



Average Time Current Curve (KLKR)



KLQ Series Fuse



- The Littelfuse KLQ series is designed to protect gaseous vapor fixtures, HID ballasts, and other electronic and lighting circuits.
- The KLQ is the same physical size as the Littelfuse BLS, but has more time delay to handle transient and inrush currents.

VOLTAGE RATING: 600 VAC.

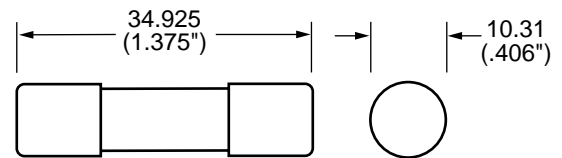
INTERRUPTING RATING: 10,000 amperes at rated VAC.

AMPERE RANGE: 1-16 amperes.

AGENCY APPROVALS: UL Listed per UL 248.

ORDERING INFORMATION:

Catalog Number	Ampere Rating	AC Voltage Rating
KLQ 001	1	600
KLQ 1 ⁹ / ₁₀	1.6	600
KLQ 002	2	600
KLQ 003	3	600
KLQ 005	5	600
KLQ 006	6	600



FLU Series Fuse



- The Littelfuse FLU series is designed specifically for the protection of multimeters.
- The 1000 VAC/VDC rating also makes the FLU ideal for a variety of other applications.

VOLTAGE RATING: 1000 VAC/VDC.

INTERRUPTING RATING: 44/100A: 10kA
11A: 20kA.

AMPERE RATINGS: 44/100 and 11 amperes.

AGENCY APPROVALS: UL Recognized under the components program.

ORDERING INFORMATION:

Catalog Number	Ampere Rating	AC Voltage Rating
FLU 44/100	0.44	1000
FLU 011	11	1000

