

POWR-GARD® Fuse Datasheet



KLKD SERIES 10x38 FUSES

600 Vac/dc • 1/10-30 A • Fast Acting



Description

The KLKD fuse series is fast-acting with a high DC voltage rating. This family of Midget style fuses (10 x 38 mm) is used in solar combiner boxes and in circuits with DC fault currents up to 50,000 amperes. KLKD fuses are available in standard and board-mount configurations.

In addition, the KLKD series has been designed to meet both the UL and IEC photovoltaic fuse standards. Littelfuse offers a wide range of ampere ratings to match specific requirements in a variety of applications.

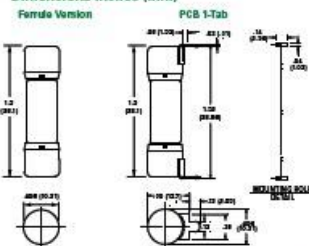
Features/Benefits

- Designed to UL and IEC photovoltaic specifications
- 1/10 - 30 A ratings available
- 50,000 A Interrupting Rating
- Available in ferrule or PCB mount options
- 1-S meets UL1741 GFDI requirements

Applications

- Combiner boxes and inverters
- Power supplies
- Desktop meters

Dimensions Inches (mm)



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Rev: 020414

Specifications

Voltage Rating: 600 Vac/Vdc
Ampere Rating: 1/10, 1/8, 1/4, 1/2, 3/4, 1, 1 1/2, 2, 2 1/2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 15, 20, 25, 30
Interrupting Rating: AC: 100 kA
200 kA Littelfuse self-certified
DC: 1/10-30: 10 kA (UL 248-14)
1/10-30: 50 kA (UL 248-14)

Material:

Body: Melanox / Caps: Copper Alloy

Operating Temperature:

See Rating Curve

UL 2570 Listed (File: E391112)

IEC 60269-6 (2-25 A)

VDE Certified (File: 4033094)

UL 248-M Listed (File: E10493)

CSA Certified Ferrule only (File: LR29662)

RoHS Compliant

Country of Origin: Mexico

Part Numbering System

SERIES	AMP	PACKAGE QUANTITY	MOUNTING METHOD	CATALOG NUMBER	ORDERING NUMBER
KLKD	1/8	10	FERRULE	KLKD125	KLKD125F
KLKD	5	100	FERRULE	KLKD005	KLKD005H
KLKD	15	10	PCB 1-TAB	KLKD015R	KLKD015R

Recommended Fuse Holders

Littelfuse LPSM Dead-Front Series
Littelfuse L60030M Open-Face Series

Web Resources

Download CAD drawings and other technical information:
littelfuse.com/klkd

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Ordering Information

Ferrule Version

AMP RATING	AMP CODE	CATALOG NUMBER	ORDERING NUMBER	VOLTAGE RATING DC & AC	INTERRUPTING RATING (kA) AC	INTERRUPTING RATING (kA) DC	UPC	WEIGHT (LB (g))	AGENCY APPROVALS
1/10	100	KLKD 1/10	KLKD100T	600	100	50	07945810100	.013 (5.90)	UL VDE CSA
1/8	125	KLKD 1/8	KLKD125T	600	100	50	07945810125	.013 (5.90)	• • •
1/4	20	KLKD 1/4	KLKD200T	600	100	50	07945810120	.013 (5.90)	• • •
1/2	250	KLKD 1/2	KLKD250T	600	100	50	07945810132	.013 (5.90)	• • •
3/4	300	KLKD 3/4	KLKD300T	600	100	50	07945810133	.013 (5.90)	• • •
1	500	KLKD 1	KLKD500T	600	100	50	07945810144	.013 (5.90)	• • •
1 1/2	750	KLKD 1 1/2	KLKD750T	600	100	50	07945810185	.013 (5.90)	• • •
2	1001	KLKD 2	KLKD1001T	600	100	50	07945810186	.013 (5.90)	• • •
2 1/2	1251	KLKD 2 1/2	KLKD1251T	600	100	50	07945810187	.013 (5.90)	• • •
3	1501	KLKD 3	KLKD1501T	600	100	50	07945810200	.017 (7.71)	• • •
3 1/2	1751	KLKD 3 1/2	KLKD1751T	600	100	50	07945810214	.017 (7.71)	• • •
4	2001	KLKD 4	KLKD2001T	600	100	50	07945810201	.017 (7.71)	• • •
5	2251	KLKD 5	KLKD2251T	600	100	50	07945810202	.017 (7.71)	• • •
6	2501	KLKD 6	KLKD2501T	600	100	50	07945810203	.017 (7.71)	• • •
7	2751	KLKD 7	KLKD2751T	600	100	50	07945810204	.017 (7.71)	• • •
8	3001	KLKD 8	KLKD3001T	600	100	50	07945810205	.017 (7.71)	• • •
9	3251	KLKD 9	KLKD3251T	600	100	50	07945810215	.017 (7.71)	• • •
10	3501	KLKD 10	KLKD3501T	600	100	50	07945810206	.017 (7.71)	• • •
12	4001	KLKD 12	KLKD4001T	600	100	50	07945810207	.017 (7.71)	• • •
15	4501	KLKD 15	KLKD4501T	600	100	50	07945810208	.017 (7.71)	• • •
20	6001	KLKD 20	KLKD6001T	600	100	50	07945810209	.017 (7.71)	• • •
25	7501	KLKD 25	KLKD7501T	600	100	50	07945810210	.017 (7.71)	• • •
30	10001	KLKD 30	KLKD10001T	600	100	50	07945810211	.017 (7.71)	• • •

PCB 1-Tab Version

AMP RATING	AMP CODE	CATALOG NUMBER	ORDERING NUMBER	VOLTAGE RATING DC & AC	INTERRUPTING RATING (kA) AC	INTERRUPTING RATING (kA) DC	UPC	AGENCY APPROVALS
1/10	100	KLKD 1/10-R	KLKD1004R	600	100	50	07945814857	• • •
1/8	125	KLKD 1/8-R	KLKD1254R	600	100	50	07945814858	• • •
1	500	KLKD 1-R	KLKD5004R	600	100	50	07945812133	• • •
2	1000	KLKD 2-R	KLKD10004R	600	100	50	07945814860	• • •
3	1500	KLKD 3-R	KLKD15004R	600	100	50	07945814861	• • •
4	2000	KLKD 4-R	KLKD20004R	600	100	50	07945811426	• • •
5	2500	KLKD 5-R	KLKD25004R	600	100	50	07945814862	• • •
6	3000	KLKD 6-R	KLKD30004R	600	100	50	07945814863	• • •
8	4000	KLKD 8-R	KLKD40004R	600	100	50	07945814864	• • •
10	5000	KLKD 10-R	KLKD50004R	600	100	50	07945814865	• • •
12	6000	KLKD 12-R	KLKD60004R	600	100	50	07945814866	• • •
15	7500	KLKD 15-R	KLKD75004R	600	100	50	07945814867	• • •
20	10000	KLKD 20-R	KLKD100004R	600	100	50	07945814868	• • •
25	12500	KLKD 25-R	KLKD125004R	600	100	50	07945814869	• • •
30	15000	KLKD 30-R	KLKD150004R	600	100	50	07945814870	• • •

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Current-Limiting Effects

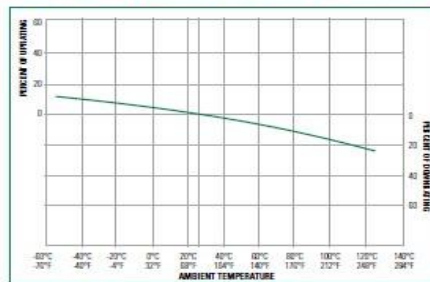
SHORT CIRCUIT CURRENT*	APPROXIMATE RMS SYMMETRICAL CURRENT FOR VARIOUS FUSE RATINGS			
	1 1/2 A	2 A	25 A	30 A
5,000	240	207	654	772
10,000	302	267	823	978
15,000	347	300	943	1147
20,000	381	333	1037	1247
25,000	411	360	1117	1335
30,000	437	380	1186	1413
35,000	460	398	1250	1482
40,000	481	416	1312	1549
50,000	518	450	1403	1656
60,000	550	487	1496	1764
80,000	605	535	1647	1920
100,000	652	578	1736	2061

* Prospective RMS Symmetrical Average Short-Circuit Current

Electrical Specification – Agency Requirements

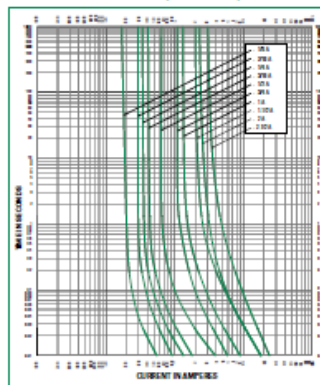
AMPERAGE RATING	OPENING TIME (MINUTES)				
	100% of Amp Rating per UL	113% of Amp Rating per IEC	135% of Amp Rating per UL	145% of Amp Rating per IEC	200% of Amp Rating per UL
1/2-30	Temperature Stabilization	60 Min	60 Max	60 Max	4 Max

Temperature Derating Curve (Temperature of Air Immediately Surrounding Fuse)

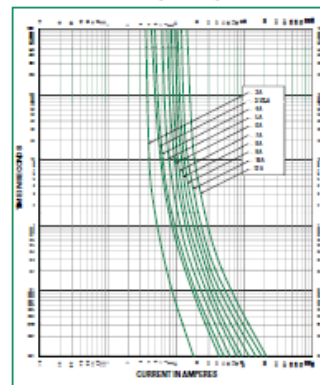


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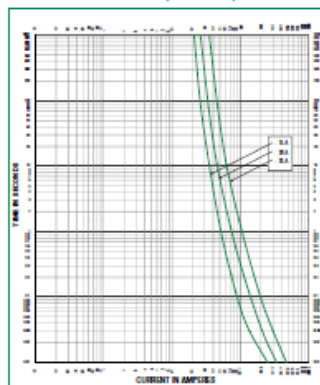
Time Current Curve (1 1/2 - 2 1/2 A)



Time Current Curve (3 - 12 A)



Time Current Curve (15 - 25 A)



Time Current Curve (30 A)

