High Current Fuses





MIDI® 70V HP Fuse

MIDI[®] High Performance Fuse Rated 70V

The MIDI® 70V High Performance (HP) Fuse is designed for high current circuit protection up to 125A with "Diffusion Pill Technology." The MIDI® 70V HP features 1MOhm Open State Resistance after fuse opening to guarantee safe interruption at any voltage up to 70V. The MIDI® 70V HP Fuse is an ideal solution for any high current application like fans, heaters and high inrush peak loads. The new added 135% overload gate provides much better wire protection.

Specifications

Voltage Rating: Interrupting Rating: **Recommended Environmental Temperature:** Terminals Material: Housing Material: Mounting Torque M6: Open State Resistance (after fuse opening) Refers To: Complies With:

70 VDC 2500A @ 70 VDC -40°C to + 125°C **Tin Plated Copper** PA66 GF25 FR (U.L. 94 Flammability rating - V0) 9Nm+/-1Nm >1M0hm ISO 20934 - Type SF36 Standard UL 248-1 as a Special Purpose Fuse in UL File E71611 (from 60A to 100A only) and Directive 2011/65/EU.



Ordering Information

	natilig	Size	Qty
4998xxx.M-M6	30 - 125	500	2
4998xxx.M-1M6	30 - 125	500	1
4998xxx.M-NH	30 - 125	500	0

Fime-Current	Characteristics
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Rating	Package Size	Bolt Hole Qty	% of Rating	Opening Time Min / Max (s)
30 - 125	500	2	100	360,000 / ∞
30 - 125	500	1	135	300 / 3,600
30 - 125	500	0	150	90 / 500
			200	1 / 50
			300	0.3 / 4
			500	0.1 / 1
			600	0.07 / 0.7

Ratings

Part Number	Current Rating (A)	Color Code	Test Cable Size (mm²)	Typ. Voltage Drop (mV)	Typ.Cold Resistance (mΩ)	Typ.I²t (A²s)
4998030.M_	30		2.5	100	2.20	3,200
4998040.M_	40		4	94	1.56	4,700
4998050.M_	50		6	86	1.16	7,500
4998060.M_	60 ¹		6	81	0.94	6,800
4998070.M_	70 ¹		10	76	0.74	10,900
4998080.M_	80 ¹		10	64	0.57	10,500
4998100.M_	100 ¹		10	68	0.44	18,300
4998125.M_	125		16	66	0.35	51,300

Note 1: UL Recognized.

The typical I2t is an average value calculated from the breaking capacity tests by using the melting time before the arcing occurs.

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Time-Current Characteristic Curves TIME-CURRENT CHARACTERISTIC CURVES (RECORDED@23°C)



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Dimensions

Dimensions in mm for reference only. See outline drawing for dimensions and tolerances.



	max. allowed current load [A] at ambient temperature (typical derating)						
	-40°C	0°C	20°C	65°C	85°C	110°C	125°C
30A	30	30	29	25	23	19	17
40A	40	40	38	33	30	25	22
50A	50	50	49	42	38	32	28
60A	60	57	54	46	42	35	31
70A	70	70	69	59	53	46	40
80A	80	80	80	70	63	52	45
100A	100	100	94	78	71	59	51
125A	125	125	120	101	91	78	68

Temperature Table

Typical Derating of Fuse Melting Element

Temperature Security Margin is 20%

Please Contact Littelfuse® for Details Regarding Derating Test Set-Up



Derating curves may change depending on the final condition of the application (terminals characteristics, wire size etc..). Please ask Littelfuse for more information.

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