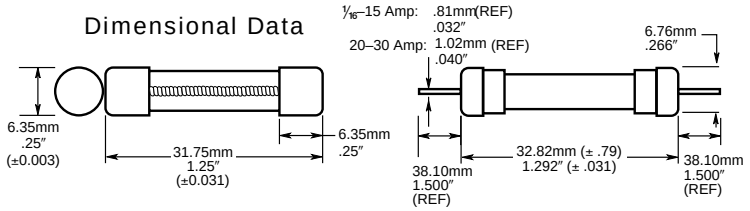
Time-Delay Glass Fuses

For ¼″ × 1¼″ (6.3mm × 32mm)

MDL
MDL-V

Actual Size

Dimensional Data



Catalog Symbol: MDL
¼″ × 1¼″ (3AG)
Time-Delay
Agency Approvals*: U.L./CSA 248-14
Construction: Glass Tube,
Nickel Plated Brass Endcaps

Time-Current Characteristics

Rated Current	Percent of Rating		
	110%	135%	200%
1/16-30	4 hrs. (min)	60 min. (max)	120 sec. (max)

Packaging & Ordering Information:

	MDL	—	V	—	(See Table)
Package Code Blank 5 in BK/ 100 in	Product Symbol		Lead Blank -no lead V-Axial lead		Rated Current

Weight = .93 lbs/100

CE logo denotes compliance with European Union Low Voltage Directive (50-1000 Vac, 75-1500 Vdc). Refer to BIF document #8002 or contact Bussmann Application Engineering at 314-527-1270 for more information.

Electrical Characteristics

Rated Current[5]	Rated Voltage		Interrupting Rating[1]		Pre-arcing I²t (A²Sec)		Typical Total Clearing[3] I²t (A²Sec)		Typical Voltage Drop[2] Volts at 100% Rated Current	Agency* Approvals		
	AC (Max.)	DC[6] (Max.)	AC	DC[6]	AC	DC[6]	AC	DC[6]		U.L.	U.R.	CSA
1/16	250V	250V	35A	35A	.21	.02	.51	3.59	5.56	•		•
1/10	250V	250V	35A	35A	.04	.60	.11	1.31	2.02	•		•
1/8	250V	250V	35A	35A	.05	.06	.06	.06	1.68	•		•
3/16	250V	250V	35A		.08		.52		1.12	•		•
2/10	250V	250V	35A	35A	.08		.68		1.00	•		•
1/4	250V	250V	35A	35A	.43	.44	.96	.45	1.02	•		•
3/10	250V	250V	35A	35A	.41	.43	1.13	.66	1.48	•		•
3/8	250V	250V	35A	35A	.72	.83	1.86	2.00	.85	•		•
1/2	250V	250V	35A	35A	1.48	2.02	2.52	2.14	1.26	•		•
3/4	250V	250V	35A	35A	3.75	4.25	5.11	4.62	1.01	•		•
1	250V	250V	35A	35A	10.24	9.80	12.65	10.25	.98	•		•
1¼	250V	250V	100A	100A	10.70		21.40		.77	•		•
1½	250V	250V	100A	100A	19.10		30.90		.74	•		•
2	250V	250V	100A	100A	68.60		79.70		.59	•		•
2¼	250V	250V	100A	100A	55.40		78.20		.27	•		•
2½	250V	250V	100A	100A	63.50		77.10		.42	•		
3	250V	250V	100A	100A	43.10	30.27	68.60	76.09	.35	•		•
4	250V	125V/32V	200A	10kA/1kA	181.90		203.50		.20	•		•
5	250V	125V/32V	200A	10kA/1kA	311.30		374.00		.19	•		•
6	250V	125V/32V	200A	10kA/1kA	368.30		427.50		.17	•		•
7	250V	125V/32V	200A	10kA/1kA	457.50		507.60		.15	•		•
8	250V	250V/125V	200A	200A/10kA	280.90	422.00	455.20	531.00	.12	•		•
9	32V	125V/32V	1000A	10kA/1kA	568.00		685.00		.14		•	
10	32V	125V/32V	1000A	10kA/1kA	671.00		874.00		.12		•	
15	32V	32V	1000A	1000A	1931.00		2296.00		.14		•	
20	32V	32V	1000A	1000A	5652.00		5992.00		.05		•	
25	32V	32V	1000A	1000A	15356.00		15789.00		.07		•	
30	32V	32V	1000A	1000A	28033.00		28499.00		.07		•	

*Approvals: U.L. Listed, Std. 248-14, Guide JDYX, File E19180; CSA Certification Class 1422-01, File 53787; U.L. Recognized, Guide JDYX2, File E19180.

1. Interrupting ratings were measured at 70% - 80% power factor on AC, and at a time constant described in U.L. 198L.
2. Voltage drop was measured at 25°C±3°C ambient temperature at rated current.
3. I²t was measured at listed interrupting rating and rated voltage.
4. Interrupting rating for MDL 1/16-8A @ 125 Vac is 10,000A. Interrupting rating listed corresponds to maximum rated voltage.
5. Other available sizes include 1/100, 1/32, 15/100, 175/100, 4/10, 6/10, 7/10, 8/10, 12/10, 16/10, 18/10, 28/10, 32/10, 3½, 6¼, 7½, 12 and 17½.
6. 1-10A, U.L. Recognized, 125 Vdc and 500 AIC. Other DC ratings are self-certified.

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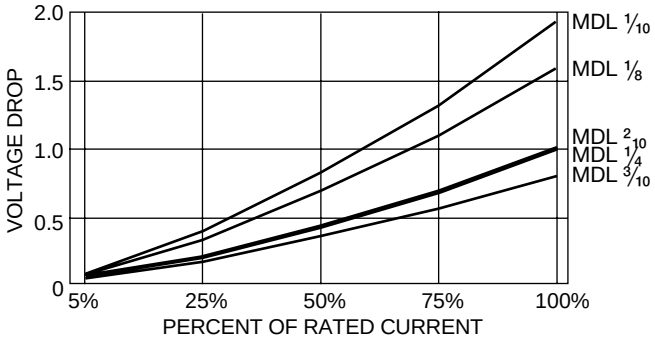
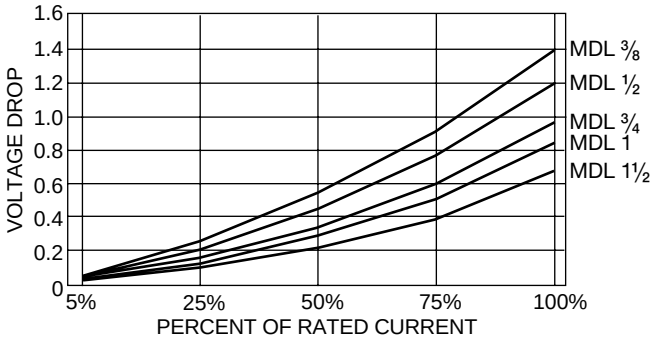
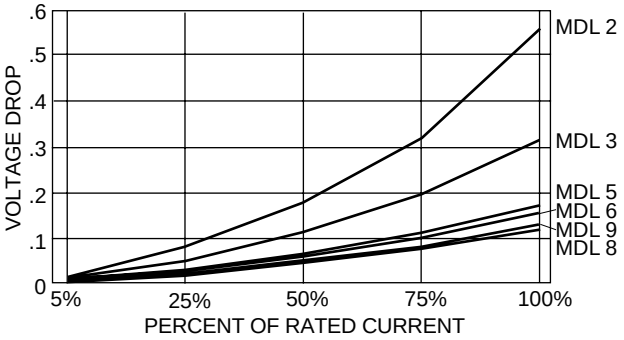
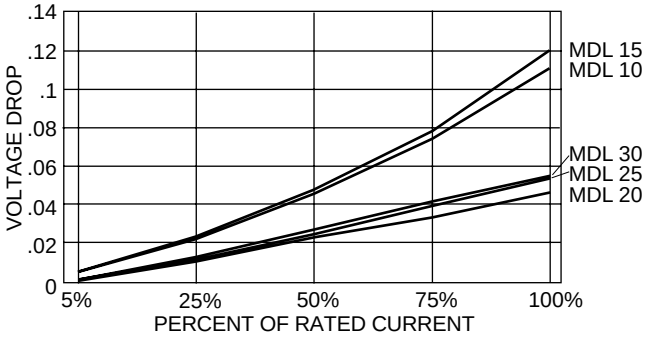
MDL
MDL-V

1.0 Typical Voltage Drop (At 25° C Ambient Temperature)









Time-Current Characteristic Curves–Average Melt (Full Size Curves Available)

2.0 Ambient Temperature Effect Chart (Derating Curve)