

# Edison Fuses – Small Dimension Time-Delay MDL



## Features

- Compact dimensions 1/4" x 1-1/4", (6.3mm x 32mm)
- Glass tube construction with nickel-plated brass end caps
- Time-delay

## Applications

Supplemental protection for electronic applications

## MDL Specifications

Voltage Rating: MDL - See table below  
 Ampere Rating: 0.0625 - 20 Amps  
 Interrupting Rating: See table below

## Environmental Data

Shock: 0.0625A  
 MIL-STD-202, Method 213, Test Condition I;  
 1A thru 20A: MIL-STD-202, Method 207, (HI shock)

Vibration: 0.0625A: MIL-STD-202, Method 201;  
 0.25A thru 20A: MIL-STD-202, Method 204, Test condition C (except 5g, 500 HZ)

## Agency Approvals

- UL Listed product meets standard 248-14
- UL Listed Card: MDL 0.0625-8A (Guide JDYX, File E19180)
- UL Recognized Card: MDL 9-20A (Guide JDYX2, File E19180)
- CSA Certification File 053787: MDA 0.25-15A (Class No. 1422-01)

MDL Small Dimension Time-Delay Fuses										
Part Number	AMP Rating	Rated Voltage	AC Interrupting Rating*			Melting $I^2t$ **	Voltage Drop mv***	Pcs/Pkg	Package Weight (lb.)	Price
			AC Max	250V	125V					
MDL-0625	0.0625	250V	35A	10000A	—	0.0046	2.79	5	0.1	<--->
MDL-25	0.25					0.447	0.965			<--->
MDL-5	0.5					1.656	1.27			<--->
MDL1	1					11.498	0.995			<--->
MDL1-5	1.5					22.7	0.721			<--->
MDL2	2					62.3	0.644			<--->
MDL2-5	2.5		63.1	0.410	<--->					
MDL3	3		67.5	0.345	<--->					
MDL4	4		19.3	0.187	<--->					
MDL5	5		32.0	0.160	<--->					
MDL6	6		37.4	0.155	<--->					
MDL6-25	6.25		38.7	0.152	<--->					
MDL7	7		42.7	0.140	<--->					
MDL8	8		47.8	0.119	<--->					
MDL10	10	64.4	0.114	<--->						
MDL15	15	32V	—	—	1000A	354.0	0.130	<--->		
MDL20	20	2914.0	0.530	<--->						

\*Note: Interrupting ratings were measured at 70% - 80% power factor on AC, and at a time constant described in UL 198L.

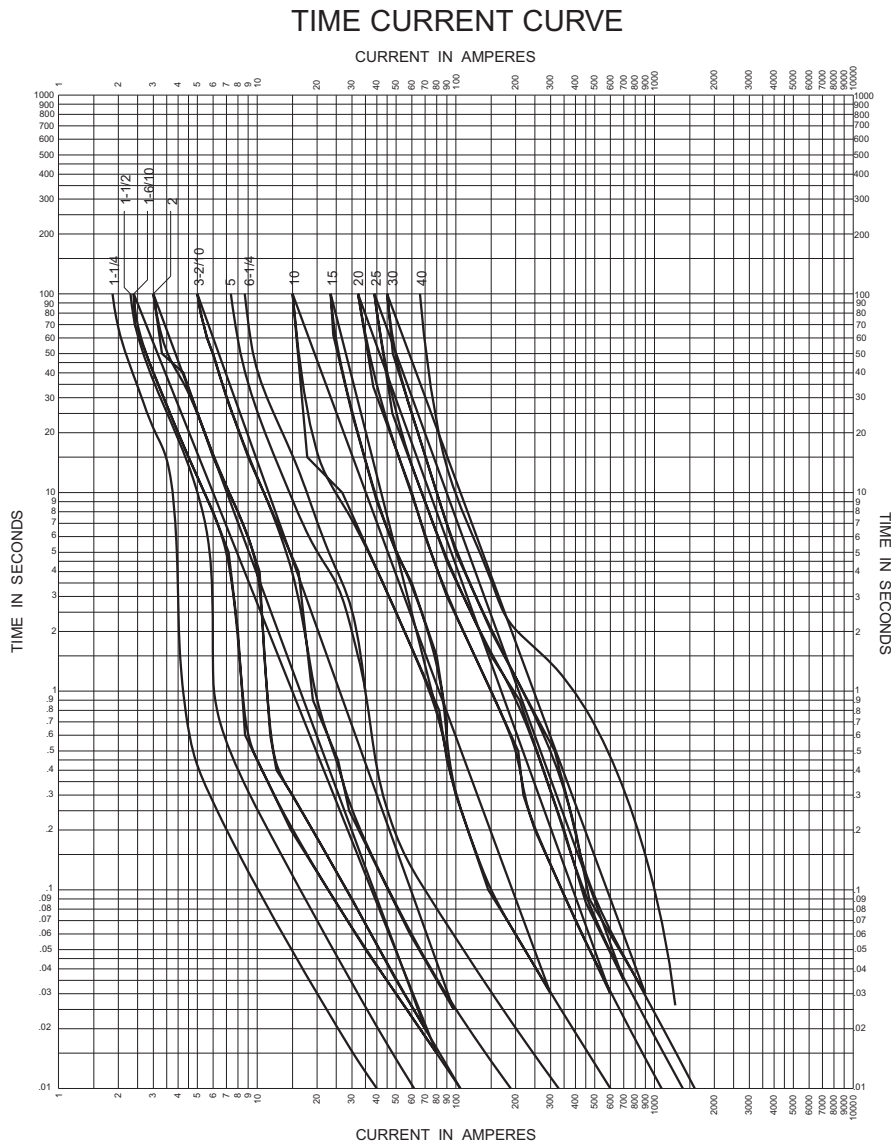
\*\* Typical Melting  $I^2t$  (A<sup>2</sup>Sec) - measured at listed interrupting rating and rated voltage (at 70% to 80% power factor on AC)

\*\*\* Typical Voltage Drop - measured at 25°C ± 3°C ambient temperature at rated current.

**For mounting and wiring MDL fuses, see our DN-F6 Series fuse blocks in the Terminal Blocks and Wiring Solutions section.**

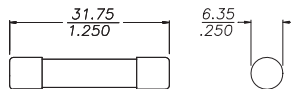
CROSS REFERENCE			
OLD EDISON	BUSSMANN	FERRAZ GOULD	LITTELFUSE
BDL	MDL	GDL	313

# Edison Fuses – Small Dimension Time-Delay MDL



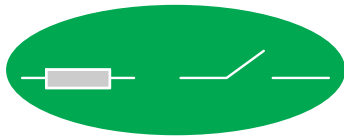
## Dimensions

(mm/inches)

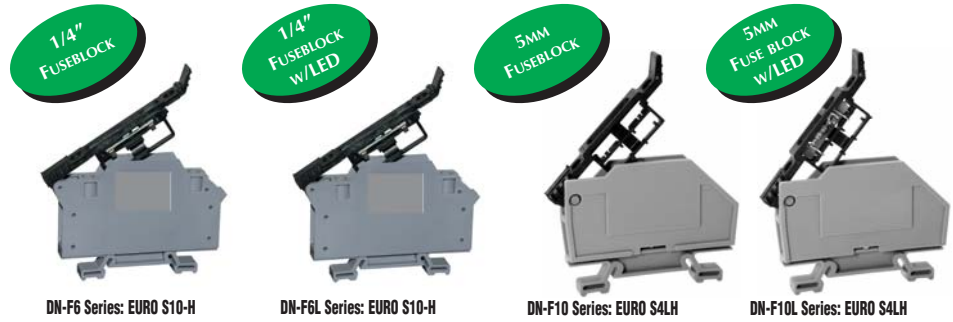


MDL Electrical Characteristics		
Rated Current	% of Amp Rating	Opening Time
0.0625 to 20 Amps	100	None
	135	60 minutes maximum
	200	120 seconds maximum
0.0625 to 3 Amps	200	5 seconds minimum
4 to 8 Amps	200	12 seconds minimum

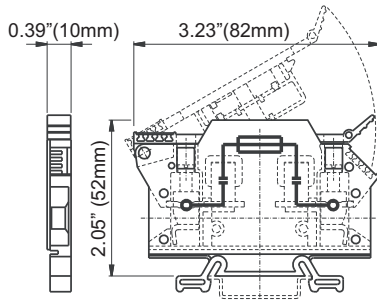
# Fuse Terminal Blocks



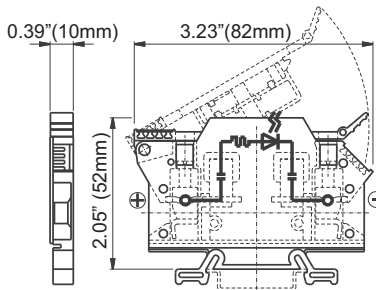
Fuse blocks are available for 1/4", 5 mm, Class CC and midget size fuses, either with or without a blown fuse LED. LED fuse blocks are polarity sensitive. The hinge side is positive.



## DN-F6



## DN-F6L



	Part #	Pcs/Pkg	Price/Pkg	Part #	Pcs/Pkg	Price/Pkg	Part #	Pcs/Pkg	Price/Pkg	Part #	Pcs/Pkg	Price/Pkg
<b>Gray Term Blk</b>	DN-F6	25	<--->	-	-	-	DN-F10	50	<--->	-	-	-
<b>12-24VAC/DC*</b>	-	-	-	DN-F6L24	10	<--->	-	-	-	DN-F10L24	10	<--->
<b>110VAC/DC*</b>	-	-	-	DN-F6L110	10	<--->	-	-	-	DN-F10L110	10	<--->
<b>220VAC/DC*</b>	-	-	-	DN-F6L220	10	<--->	-	-	-	DN-F10L220	10	<--->

### Fuse Terminal Blocks Specifications

<b>UL Approval<sup>1</sup></b>	600V 30A 20-6 AWG	600V 30A 20-6 AWG	300V 15A 24-10 AWG	300V 15A 24-10 AWG
<b>CSA Approval</b>	600V 30A 18-6 AWG	600V 30A 18-6 AWG	300V 8A 18-12 AWG	300V 8A 18-12 AWG
<b>VDE Approval</b>	750V 8A -	750V 8A -	500V 8A 4mm <sup>2</sup>	500V 8A 4mm <sup>2</sup>
<b>CE Conformity Agency File#</b>	CE 23/20, CE 23/21 E179129, LR84816	CE 23/20, CE 23/21 E179129, LR84816	CE 23/20, CE 23/21 E179129, LR84816	CE 23/20, CE 23/21 E179129, LR84816
<b>Wire Strip Length</b>	0.47" (12mm)	0.47" (12mm)	0.39" (10mm)	0.39" (10mm)
<b>Tightening Torque</b>	18.0 lb-in (2.0Nm)	18.0 lb-in (2.0Nm)	5.5 lb-in (0.6Nm)	5.5 lb-in (0.6Nm)
<b>Density</b>	30 pcs./ft. (100/m)	30 pcs./ft. (100/m)	30 pcs./ft. (100/m)	30 pcs./ft. (100/m)
<b>Fuse Size (not supplied)</b>	1 1/4" X 1/4"	1 1/4" X 1/4"	5x20mm-5x25mm	5x20mm-5x25mm
<b>Indicator Type</b>	Non-indicating	LED blown fuse indicator	Non-indicating	LED blown fuse indicator
<b>Temp./Relative Humidity</b>	Ambient air temperature: -25°C to -40°C (-13°F to -104°F) Relative humidity: 50% max. at 40°C (104°F), 90% max. at 20°C (-13°F)			

Note <sup>1</sup>: For copper wire only

### Accessories

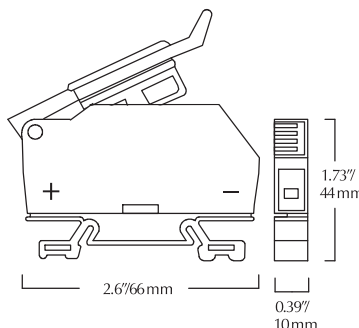
	Part#	Pcs/Pkg	Price/Pkg
<b>35 mm DIN Rail</b>	ADC Part No. DN-R35S1 (7.5 mm) or DN-R35HS1 (15 mm)		various
<b>End Bracket</b>	DN-EB35	50	<--->
	DN-EB35MN	20	<--->
<b>End Cover</b>	Included	-	-
<b>Marking Tags</b>	DN-L**/DN-LT*** series	500/100	various
<b>Angled Support Bracket</b>	DN-ASB1	50	<--->

Notes: \*Working voltage \*\* On lever arm \*\*\* On Terminal body

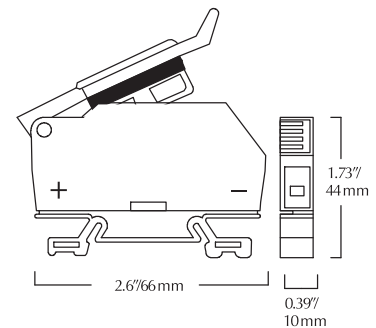
Note: DN-F6 series fuse holders will accommodate the following AutomationDirect fuses: ABC, AGC, MDA and MDL.

DN-F10 series fuse holders will accommodate the following AutomationDirect fuses: GMA, GMC, S500, and S506.

## DN-F10



## DN-F10L



For more information on accessories, see pages 26-20 through 26-22.