

Edison Fuses – Small Dimension Fast-Acting ABC



Applications

Supplemental protection for electronic applications

ABC Specifications

Voltage Rating: ABC - See table below

Ampere Rating: 0.5 - 30 Amps

Interrupting Rating: See table below

Agency Approvals

- UL Listed product meets standard 248-14
- UL Listed Guide and File numbers (ABC 0.5-15A): JDYX and E19180
- UL Recognition Guide and File numbers (ABC 20-30A): JDYX2 and E19180
- CSA Certification Record No: 053787, Class No: 1422 01 and 1422 30

Features

- Compact dimensions 1/4" x 1-1/4", (6.3 mm x 32 mm)
- Ceramic tube construction
- Fast-acting
- Fit on our DN-F6 fuse terminal blocks sold in Wiring Solutions section of this catalog

Environmental Data

- Shock: 0.5A - MIL-STD-202, Method 213, Test Condition I; 1A thru 30A - MIL-STD-202, Method 207, (HI Shock)
- Vibration: 0.5A thru 30A - MIL-STD-202, Method 204, Test Condition C (except 5g, 500 HZ)

ABC Small Dimension Fast-Acting Fuses											
Part Number	AMP Rating	Rated Voltage		AC Interrupting Rating*		DC Interrupting Rating*	Melting I^2t **	Voltage Drop***	Pcs/Pkg	Package Weight (lb.)	Price
		AC Max	DC Max	250V	125V						
ABC-5	0.5	250V	125V	35A	10000A	10000A	0.19	0.51	5	0.045 lb	<-->
ABC-75	0.75						0.8	0.42			<-->
ABC1	1						1.4	0.35			<-->
ABC2	2						4.2	0.35			<-->
ABC3	3						19.5	0.25			<-->
ABC4	4			29.1	0.25	<-->					
ABC5	5			16.4	0.23	<-->					
ABC6	6			31.6	0.24	<-->					
ABC8	8			111.9	0.17	<-->					
ABC10	10			215.6	0.15	<-->					
ABC12	12			129.6	0.11	<-->					
ABC15	15			200.2	0.12	<-->					
ABC20	20			400A	1000A	400A	550.8	0.13			<-->
ABC25	25			—			839.3	0.12			<-->
ABC30	30			—			1429	0.14			<-->

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

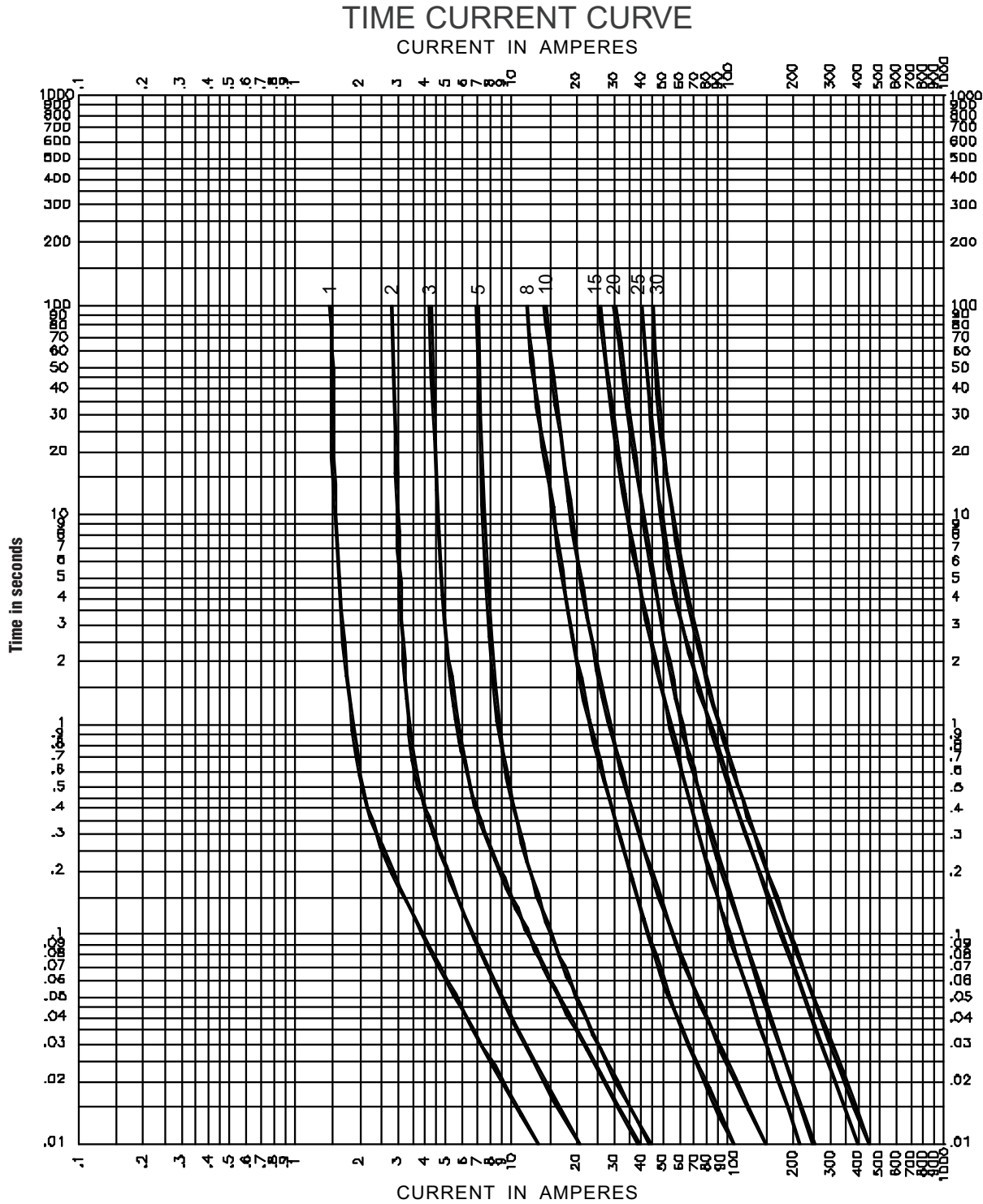
** Typical Melting I^2t (A²Sec) - measured at listed interrupting rating and rated voltage (at 70% to 80% power factor on AC)

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

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

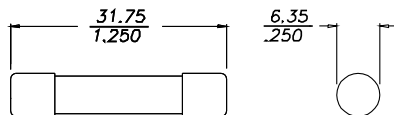
CROSS REFERENCE			
OLD EDISON	BUSSMANN	FERRAZ GOULD	LITTELFUSE
BBC	ABC	GAB	314

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Dimensions

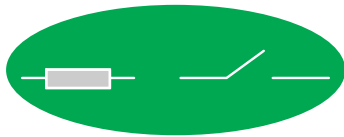
(mm/inches)



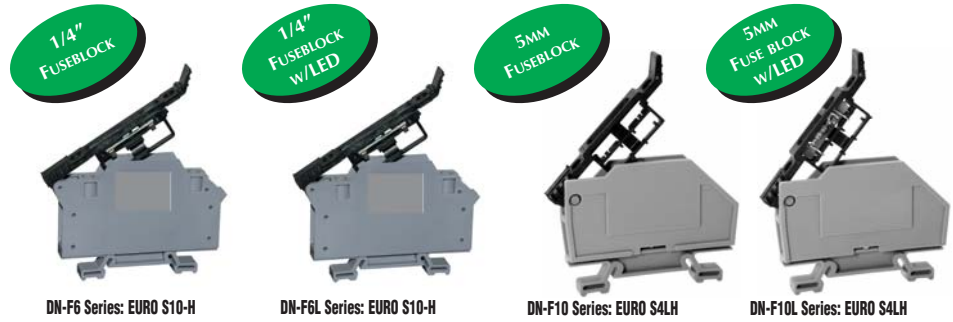
ABC Electrical Characteristics

Rated Current	% of Amp Rating	Opening Time
0.5 to 30 Amps	100	4 hours minimum
	135	60 minutes maximum
	200	120 seconds maximum

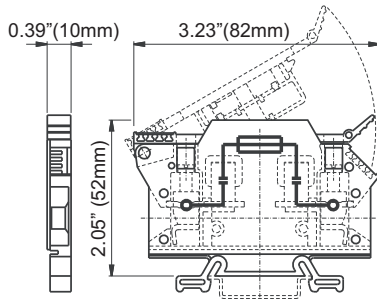
Fuse Terminal Blocks



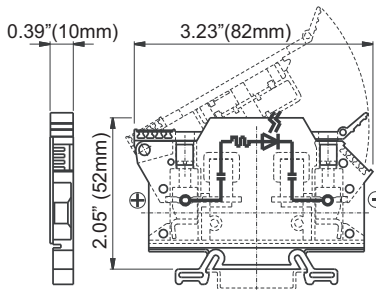
Fuse blocks are available for 1/4", 5 mm, Class CC and midget size fuses, either with or without a blown fuse LED. LED fuse blocks are polarity sensitive. The hinge side is positive.



DN-F6



DN-F6L



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

Fuse Terminal Blocks Specifications

UL Approval¹	600V 30A 20-6 AWG	600V 30A 20-6 AWG	300V 15A 24-10 AWG	300V 15A 24-10 AWG
CSA Approval	600V 30A 18-6 AWG	600V 30A 18-6 AWG	300V 8A 18-12 AWG	300V 8A 18-12 AWG
VDE Approval	750V 8A -	750V 8A -	500V 8A 4mm ²	500V 8A 4mm ²
CE Conformity Agency File#	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
Wire Strip Length	0.47" (12mm)	0.47" (12mm)	0.39" (10mm)	0.39" (10mm)
Tightening Torque	18.0 lb-in (2.0Nm)	18.0 lb-in (2.0Nm)	5.5 lb-in (0.6Nm)	5.5 lb-in (0.6Nm)
Density	30 pcs./ft. (100/m)	30 pcs./ft. (100/m)	30 pcs./ft. (100/m)	30 pcs./ft. (100/m)
Fuse Size (not supplied)	1 1/4" X 1/4"	1 1/4" X 1/4"	5x20mm-5x25mm	5x20mm-5x25mm
Indicator Type	Non-indicating	LED blown fuse indicator	Non-indicating	LED blown fuse indicator
Temp./Relative Humidity	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 ¹: For copper wire only

Accessories

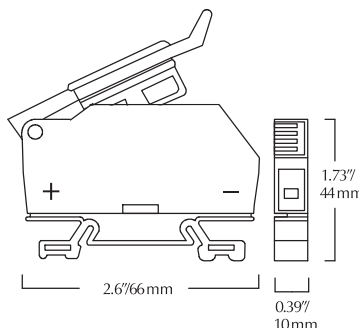
	Part#	Pcs/Pkg	Price/Pkg
35 mm DIN Rail	ADC Part No. DN-R35S1 (7.5 mm) or DN-R35HS1 (15 mm)		various
End Bracket	DN-EB35	50	<--->
	DN-EB35MN	20	<--->
End Cover	Included	-	-
Marking Tags	DN-L**/DN-LT*** series	500/100	various
Angled Support Bracket	DN-ASB1	50	<--->

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

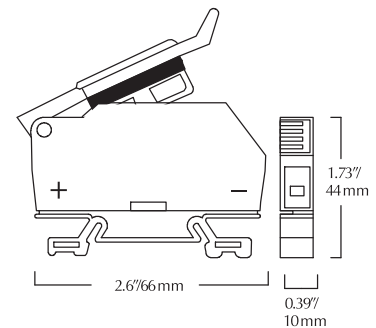
Note: DN-F6 series fuse holders will accommodate the following AutomationDirect fuses: ABC, AGC, MDA and MDL.

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.