FNM 13/32″ x 1-1/2″ 250Vac time-delay supplemental fuses

RoHS

250Vac
1/10 to 30A

Catalog symbol / color code:

- FNM
  - Green (250Vac max)

Description:

Time-delay supplemental fuse.

For superior protection, Eaton recommends upgrading to Bussmann series Low-Peak™ Class CC fuses. See data sheet No. 1023.

Specifications:

Ratings

Fuse amp range	Interrupting rating at system voltage		Agency information	
	250Vac	125Vac	UL®	CSA®
1/10 to 1	35A	10kA	X	X
1-1/8 to 3-1/2	100A	10kA	X	X
4 to 10	200A	10kA	X	X
12 to 30	10kA	–	X	X

Agency information

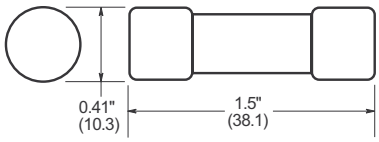
- CE
- UL Listed, Std. 248-14, Guide JDYX; File E19180
- CSA Certified, Class 1422-01, File 53787
- RoHS compliant

Catalog numbers (amps)			
FNM-1⁄10	FNM-8⁄10	FNM-2-1⁄2	FNM-6-1⁄4
FNM-1⁄8	FNM-1	FNM-2-8⁄10	FNM-7
FNM-15⁄100	FNM-1-1⁄8	FNM-3	FNM-8
FNM-2⁄10	FNM-1-1⁄4	FNM-3-2⁄10	FNM-9
FNM-1⁄4	FNM-1-4⁄10	FNM-3-1⁄2	FNM-10
FNM-3⁄10	FNM-1-1⁄2	FNM-4	FNM-12
FNM-4⁄10	FNM-1-6⁄10	FNM-4-1⁄2	FNM-15
FNM-1⁄2	FNM-1-8⁄10	FNM-5	FNM-20
FNM-6⁄10	FNM-2	FNM-5-6⁄10	FNM-25
FNM-3⁄4	FNM-2-1⁄4	FNM-6	FNM-30

Carton quantity

Amps	Qty.
1/10 to 30	10

Dimensions - in (mm):



Features

- Color coded green for 250Vac maximum voltage rating
- Melamine tube construction
- Nickel-plated endcaps

Typical applications

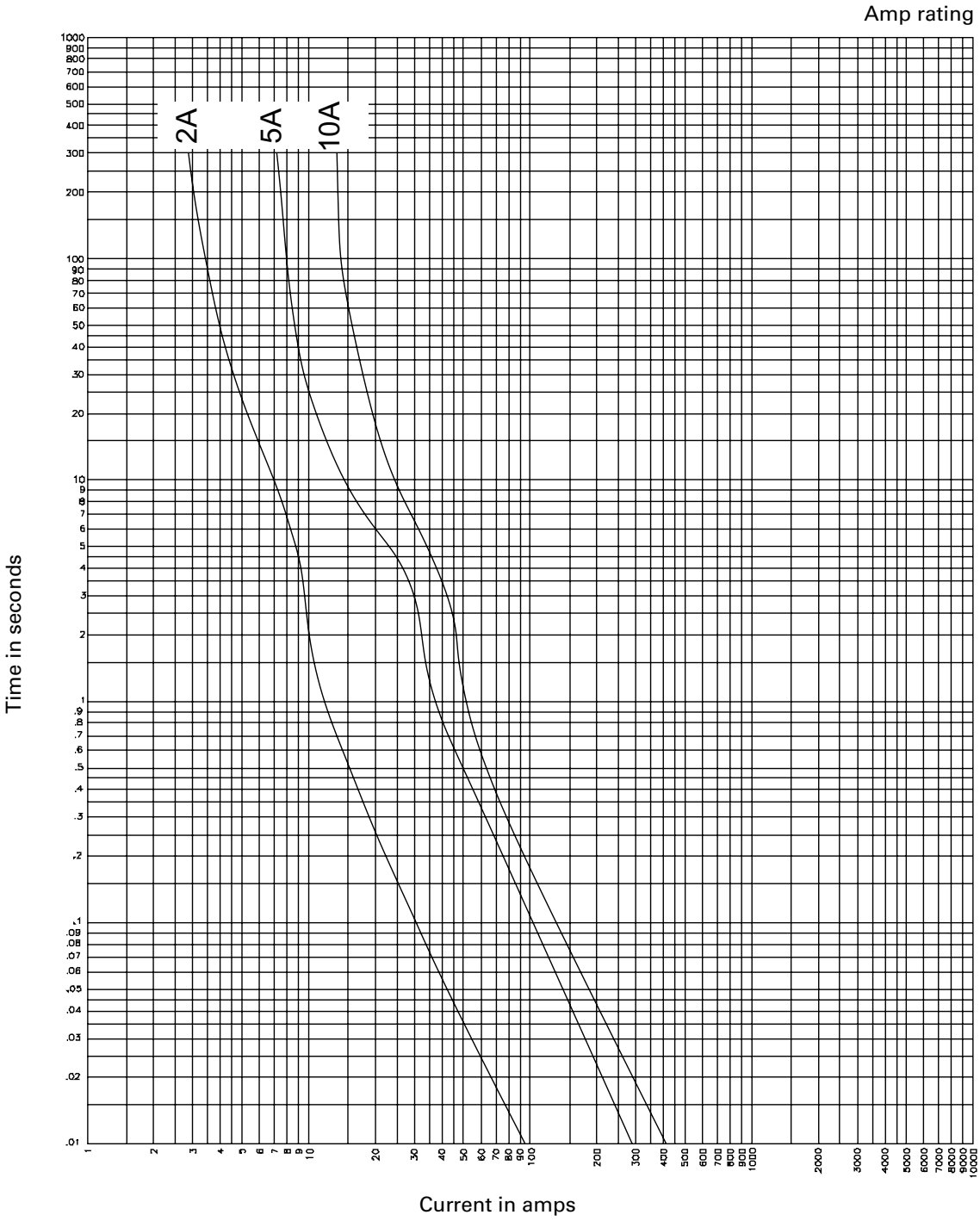
- Circuits with high inrush currents (motor/transformer loads)
- Supplemental protection for inductive circuits up to 250Vac.

Recommended fuse blocks/fuse holders

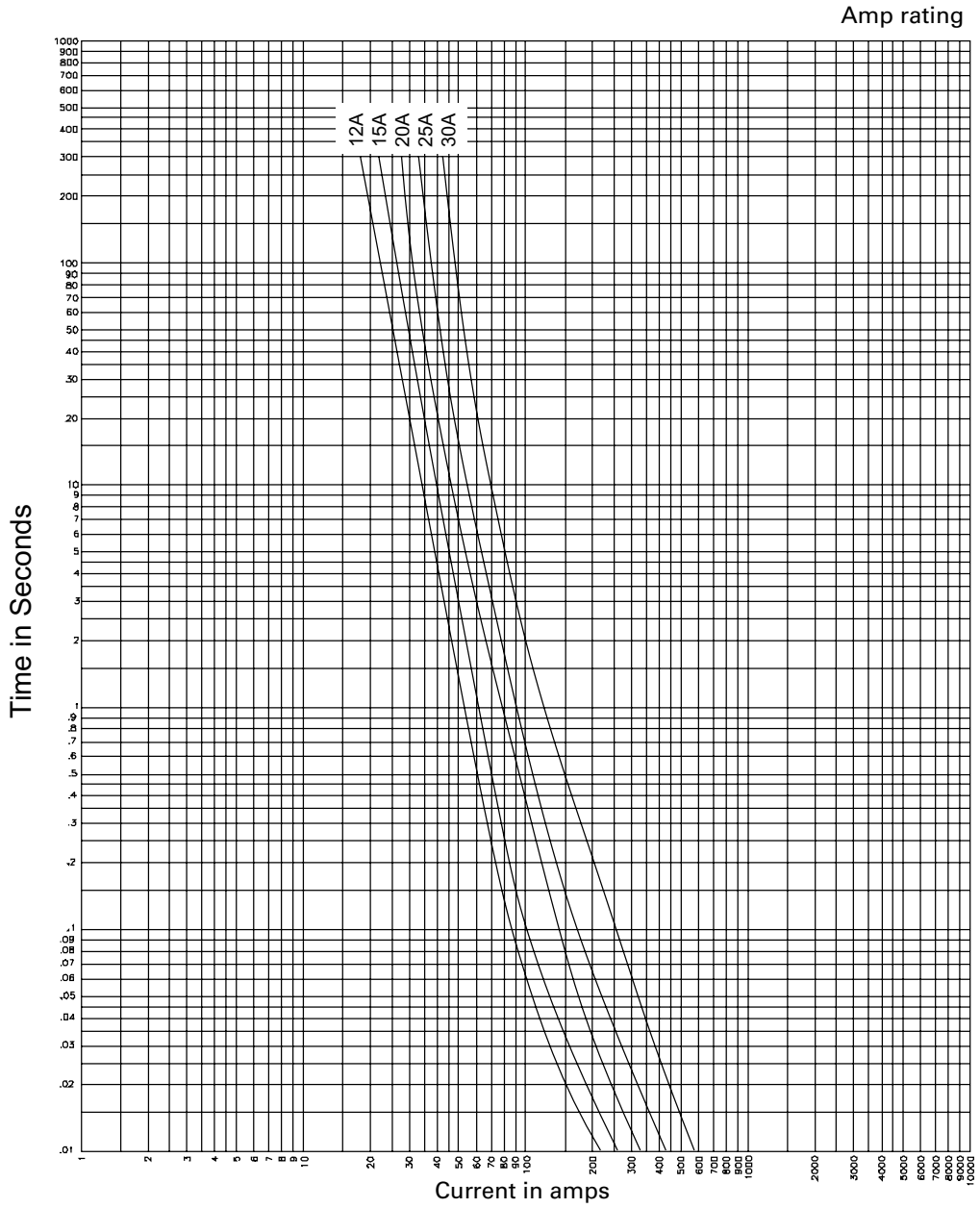
Catalog symbol	Description	Data sheet No.
	Blocks	
BMM	1-, 2- and 3-pole modular blocks with optional covers	10235
DIN-Rail holders / switches		
CCP-_-30M	1-, 2- and 3-pole switch	1157
CHM	1-, 2- and 3-pole	3185
Optima NG	3-pole protection module	1109
Optima	3-pole holder	1102
Optima	3-pole holder + switch	1103
Panel mount holders		
HPM and HPM-D	1-pole holder	2112
HPC-D	1-pole holder	2109
HPS2	2-pole holder	2140
HPF, HPF-C and HPF-WT	1-pole holder	2114
HPS	1-pole holder	2113
HPG and HPD	1-pole holder	2108
In-line holders		
HEB	1-pole holder	2127
HEX	2-pole holder	2126
Fuseclips		
1A3400, 5956 and 5960	PCB fuseclips	2132
Fuse covers		
CVR(I)-CCM(-QC)	Finger-safe fuse cover	10235

Powering Business Worldwide

Time-current characteristic curves – total clearing:



Time-current characteristic curves – average melt:



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Powering Business Worldwide

SC Class G, 600Vac/480Vac, 1/2-60A size-rejecting fuses

RoHS

Catalog symbol:

- SC-(amp)

Description:

Basic protection Class G size-rejecting, current limiting fuses. 1/2 to 6A Fast-acting, 7 to 60A time-delay. Time-delay – 12 seconds (minimum) at 200% of rated current.

Specifications:

Ratings

- Volts
  - 600Vac/170Vdc (½-20A)
  - 480Vac/300Vdc (25-60A)
- Amps 1/2-60A
- IR
  - 100kA Vac RMS Sym.
  - 10kA Vdc

Agency information

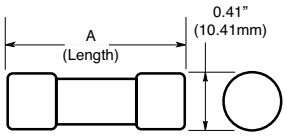
- UL® Listed, Std. 248-5, Class G, Guide JDDZ, File E4273
- CSA® Certified, C22.2 No. 248.5, Class 1422-01, File 53787
- CE
- RoHS compliant

Catalog numbers (amps)		
SC-1/2	SC-6	SC-30
SC-1	SC-7	SC-35
SC-1-1/2	SC-8	SC-40
SC-2	SC-10	SC-45
SC-2-1/2	SC-12	SC-50
SC-3	SC-15	SC-60
SC-4	SC-20	
SC-5	SC-25	

Carton quantity:

Amp rating	Carton qty.
1/2-20	4
25–60	2

Dimensions - in (mm):

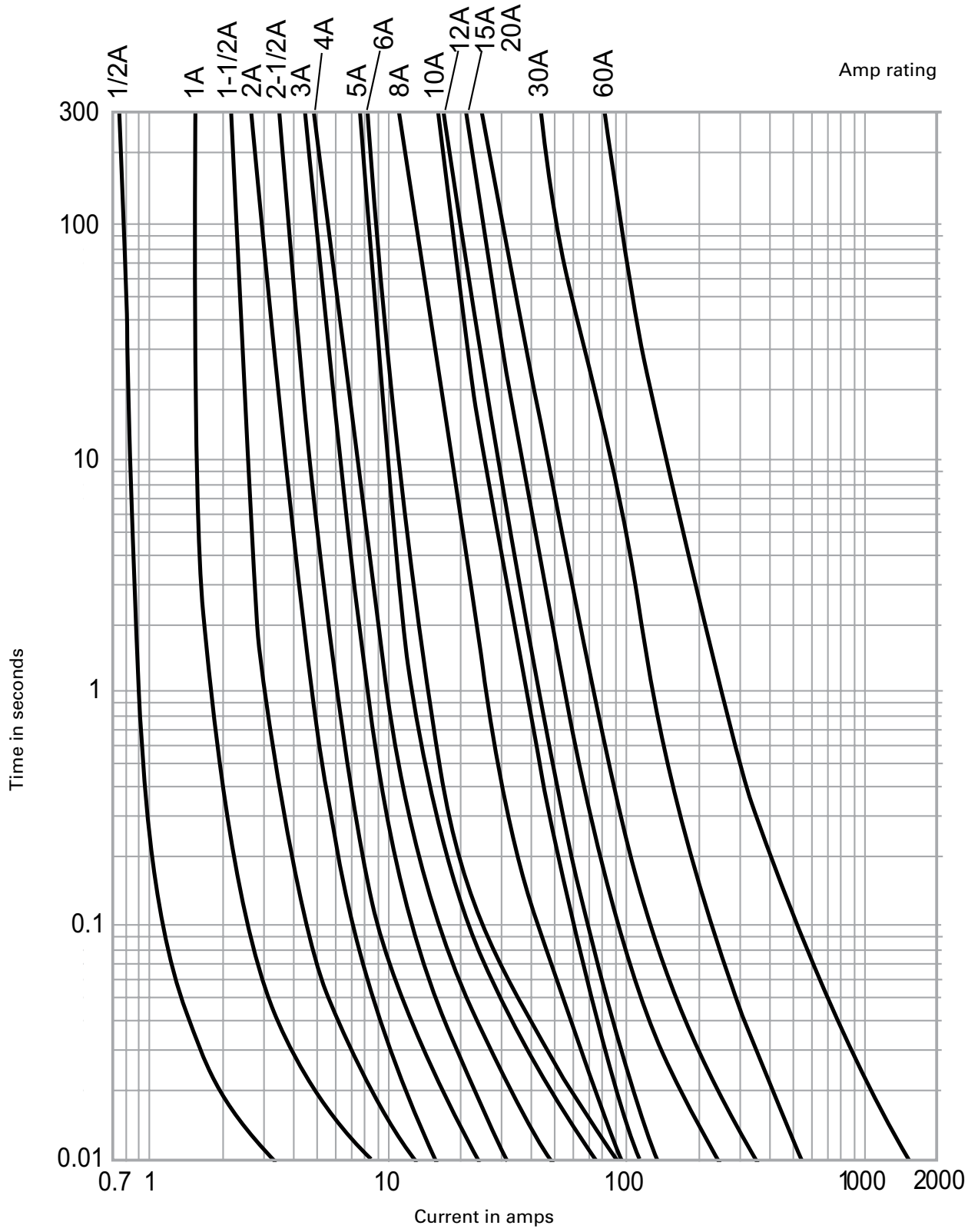


Amp rating	A
1/2-15	1.31 (33.3)
20	1.41 (35.8)
25 to 30	1.62 (41.1)
35 to 60	2.25 (57.1)

Features:

- Meets basic protection requirements of NEC®, Canadian Electrical Code (CEC), UL and CSA.
- Most economical overcurrent protection solution compared to circuit breakers.
- For use in various non-demanding, general purpose applications.
- Compact branch-circuit units with high interrupting rating and current-limitation.
- With up to a 600V rating, they can be used in 120/208V, 120/240V, and 277/480V circuits.
- Size rejection by length helps prevent overfusing.
- Fuses 7 amps and above have a degree of overload time-delay that permits them to pass temporary overloads.

Time-current curves - average melt:



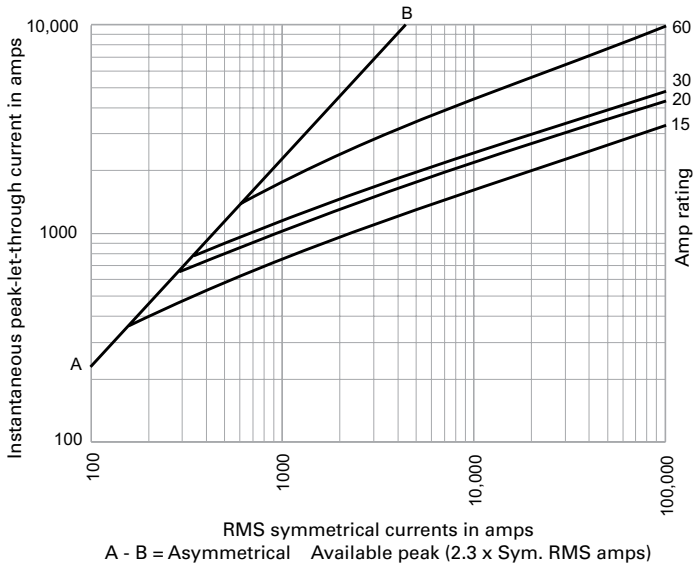
Recommended fuse blocks:

Fo

Fuse amps	1-Pole	2-Pole	3-Pole
1⁄2-15	BG30011_	BG30012_	BG30013_
20	BG30021_	BG30022_	BG30023_
25-30	BG30031_	BG30032_	BG30033_
35-60	G30060-1C_	G30060-2C_	G30060-2C_

For additional information on the BG and G Series of Class G fuse blocks, see data sheet No. 1006.

Current-limitation curves:



A - B = Asymmetrical Available peak (2.3 x Sym. RMS amps)

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Powering Business Worldwide

Single-Pole
13/32" x 1 ½" Fuses

HEB-
For any 13/32" x 1 ½" fuse. Fuse holder rated 30A, 600V (CSA Listed 15A max.). Typical fuse types: Edison MOL MEN, MEQ and MCL. (1/10 -30A)

HET-
A HEB- fuse holder with a permanently installed solid neutral. Easily identified by white plastic coupling nut.

Double-Pole
Class CC 13/32" x 1 ½" Midget Fuses

HEY-
Double-pole fuse holder has water-resistant, polarized design, and accepts Class CC branch circuit fuses (Edison fuse types EDCC, HCTR or HCLR, 600V or less) Particularly applicable in street lighting circuits with optional breakaway receptacle.

HEX-
For any 13/32" x 1 ½" fuse. Fuse holder rated 30A, 600V (CSA Listed 15A max.). Typical fuse types: Edison MOL MEN, MEQ and MCL. (1/10 -30A)

Single- and Double-Pole without Breakaway Option

Packaging & Ordering Information:

XXX	—			
HEB HET HEY HEX		Load Side Terminal A thru W		Line Terminal A thru W

Single-Pole with Breakaway Option

Packaging & Ordering Information:

XXX	—			W	—	
HEB or HET		Load Terminal A thru K		Line Terminal		Break-W-Way Terminal RLC - A thru J or RYC

Double-Pole with Breakaway Option

Packaging & Ordering Information:

XXX	—			W	—	
HEX or HEY		Load Terminal A thru K		Line Terminal		Break-W-Way Terminal DRLC - A thru J or DRYC

Available Part Numbers

Non-Breakaway Units:
HEB-AA(1) (2) (3), HEB-AB(2), HEB-AC(2), HEB-AD(2), HEB-AE(2), HEB-AJ, HEB-AK, HEB-AL, HEB-AR, HEB-AY, HEB-BA(2), HEB-BB(2), HEB-BC(2), HEB-BD(2), HEB-CC(2), HEB-DD(2), HEB-JJ, HEB-JK, HEB-JL, HEB-JY, HEB-LL, HEB-NN, HEB-PP(2), HEB-QQ(2), HEB-RR(2), HEB-SS, HEB-TT(2), HEB-ZA.

Agency Information:
(1)UL Recognized, Guide IZLT2, File E14853
(2)CSA Certified, Class 6225-01, File 47235
(3)CE

Breakaway Units:
(Includes fuse holder, breakaway part and insulating boots):
HEB-AW-RLA, HEB-AW-RLC-A(1) (2) (3), HEB-AW-RLC-B, HEB-AW-RLC-C, HEB-AW-RLC-J, HEB-AW-RYA, HEB-AW-RYC, HEB-BW-RLC-A, HEB-BW-RLC-B, HEB-BW-RYC, HEB-JW-RLC-J, HEB-JW-RYC, HEB-KW-RLC-J, HEB-KW-RYC, HEB-LW-RLA, HEB-LW-RLC-J, HEB-LW-RYA

Agency Information:
(1)UL Recognized, Guide IZLT2, File E14853
(2)CSA Certified, Class 6225-01, File 47235
(3)CE

Catalog and Specification Data

Note: The construction elements listed below illustrate the full construction of the available part numbers. NOT all construction elements are available in all combinations.

Conductor Terminals

Type Terminal	Size	Conductor Data: No. Per Terminal	Conductor Data: Solid	Conductor Data: Stranded	Terminal Symbols: Load Side	Terminal Symbols: Line Side
Copper Crimp 	#12 to #8	1	•	•	A	A
	#12	2	•	•		
	#10	2	•	•	B	B
	#6	1	•	•		
	#4	1	•	•		
	#8	2	•	•	C	C
	#4	1	—	•		
	#6	2	•	•	D	D
	#2	1	—	•		
	#4	2	•	•	E	E
Copper Set-Screw 	#12 to #2	1	•	•	J	J
	#12 to #2	2	•	•	K	K
Solid Breakaway 	(Required with Breakaway Receptacle)				W	W

Available Part Numbers

HEX Series:
HEX-AA[1] [2], HEX-AB, HEX-AC, HEX-AD,HEX-AE, HEX-AY, HEX-BB, HEX-CC, HEX-JJ, HEX-JK, and HEX-KK.

Agency Information:
[1]UL Recognized, Guide IZLT2, File E14853
[2]CSA Certified, Class 6225-01, File 47235

HEY Series:
HEY-AA, HEY-AB, HEY-AC, HEY-AD, HEY-AE, HEY-AL, HEY-BB, and HEY-JJ.

HET Series:
HET-AA, HET-AB, HET-BB, HET-JJ, and HET-JK

Optional

Type Terminal	Size	Conductor Data: No. Per Terminal	Conductor Data: Solid	Conductor Data: Stranded	Breakaway Terminal: Single-Pole	Breakaway Terminal: *Double-Pole
Copper Crimp 	#12 to #8	1	•	•	-RLC-A	-DRLC-A
	#6	1	•	•	-RLC-B	-DRLC-B
	#4	1	•	•	-RLC-C	-DRLC-C
Copper Set-Screw 	#12 to #2	1	•	•	-RLC-J	-DRLC-J
	#12 to #2	2	•	•	-RYC	-DRYC

* Terminal illustrations show the end view of single-pole receptacles and one-pole only of the double-pole receptacles. Thus, for example, in the case of a double-pole, set-screw type receptacle with terminals that accept two conductors, a total of four conductors could be connected to the receptacle per the following drawing.

Catalog Data — Insulating Boots

Catalog Numbers	Type
2A0660	Single Conductor
2A0661	Two Conductor

Insulating boots are optional and not included with non-Breakaway holders and must be ordered separately. They are included as a standard item with the breakaway series.

When boots are utilized, extra heat retention requires that fuses are sized at a minimum of 200% of the RMS load current.

Watertight Fuse Protection

HEB in-line fuse holders are water resistant and easy to install. Protect fuses in locations exposed to water, weather, corrosive fumes, salt-spray, etc. Holders are two-sectioned, molded plastic. The captive nut couples the loadside section to the lineside section; compression of the o-ring when the nut is tightened forms a vapor and water resistant unit.

Double-Pole Fuse Holders For Simultaneous Non- Load-Break Disconnect of Two Conductors

HEX and HEY units permit the fusing of two conductors. Loadside conductors can be disconnected from the lineside conductors by disengaging a captive stainless steel screw. Positive non-load-break disconnect (for non-energized circuits) provides maintenance safety. Helps prevent shock. Makes loads electrically dead.

Fuse holders are polarized. They can be used for line-to-line or line-to-neutral loads. Polarization prevents inadvertent reversal of loadside conductors (provides compliance with NEC® Section 240-22).

Both loadside terminals are always identical; both lineside terminals are always identical.

Serve As A Non-Load-Break Disconnect

The body of the fuse recesses within the loadside section so that it does not make electrical contact with the lineside section until the coupling nut engages the threads on the lineside section. The holder section thus provides a positive means of breaking or opening a non-energized electrical circuit for maintenance and repair.

Breakaway Receptacles For Impact Seperation

Are available as an option with fuse holders. Ideally suited for breakaway lighting standards as required by state and federal highway commissions). Receptacle consists of a female terminal jacketed in an integral rubber insulating sleeve, and an external wire/cable terminal. The female terminal tightly mates with a lineside, solid, copper rod terminal (symbol “W”) of the fuse holder. The insulating sleeve also insulates the body of the lineside section of the fuse holder. Should the holder be subjected to an undue pull, it will separate from the lineside, Breakaway receptacle and become electrically dead. Separating the holder and receptacle on a non-engergized circuit facilitates repair/maintenance.

Solid “W” Terminals Mate With Breakaway

Receptacles

A solid copper “rod” terminal must be used on the line-side of a fuse holder when holder is equipped with a breakaway receptacle. This solid rod terminal mates with the internal female terminal(s) of the breakaway receptacle. The letter “W” in the catalog number of the fuse holder designates this type terminal.

Crimp And Set-Screw Terminals

Crimp and setscrew type terminals are available for copper conductors.

2A0661

2A0660

Insulating Boots Save Installation Time

Boots come in two configurations - for single conductor and the “Y” type for two conductors. Fit all Edison in-line fuse holders. Designed to snugly fit over conductor insulation. Fits to wire by cutting off tapered tip. Diameter of conductor insulation cannot exceed 0.450". Inside of boots are treated with silicone to facilitate drawing of wire.

Boots come as a standard item with breakaway receptacles. They are optional and must be ordered separately for fuse holders without breakaway receptacles. **When boots are utilized, extra heat retention requires that fuses are sized at a minimum of 200% of the RMS load current.**

“Tap-Off” Connections

Fuse holders with terminal accepting two conductors can be used as a tap-off connector. Saves cost and manhours.

HEB breakaway and non-breakaway in-line fuse holders for UL 13/32" x 1-1/2" supplemental fuses

Catalog Symbol: HEB*

Description

The Bussmann™ series of HEB submersible, single-pole in-line fuse holders for UL 13/32" x 1-1/2" supplemental fuses. Available in non-breakaway and breakaway versions with an array of terminal options to meet application needs. Breakaway versions come with insulating boots to provide submersibility per UL IP67. Non-breakaway versions require ordering optional insulating boots for submersibility.

Recommended fuses

BAF, FNM, FNQ, KLM and KTK

Ratings

Volts: 600 V

Amps: up to 30 A limited by conductor size

Withstand: 200 kA RMS Sym.

Agency information

UL® Recognized, Guide IZLT2, File E14853

CSA® Certified, Class 622501, File 47235

CE, RoHS compliant†

Coupling nut torque

10-20 lb-In (1.1-2.2 N•m)

Operating and storage temperature

-40°F (-40°C) to 221°F (105°C)

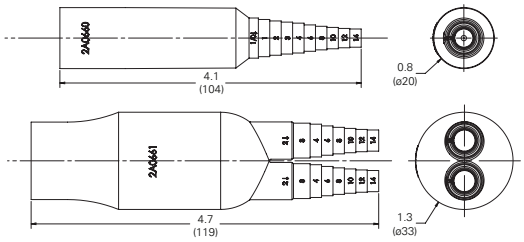
Insulating boots

Two insulating boots come standard with the breakaway holder configurations. Insulating boots are not included as standard with non-breakaway holders. Two insulating boots must be ordered separately, if required, for each non-breakaway holder ordered. When insulating boots are utilized, extra heat retention requires that fuses are sized at a minimum of 200% of the RMS load current.

Use these part numbers to order insulating boots for a non-breakaway HEB holder

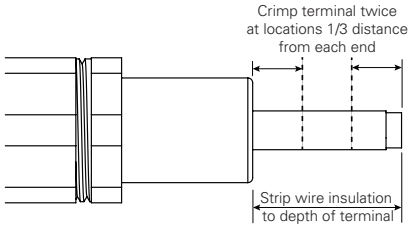
Description	Catalog no.
Single conductor	2A0660
Dual conductor	2A0661

Boot reference



Installation instructions

Strip wire insulation equal to the depth of the crimp or screw terminal. Torque screw terminal to 35 lb-In (3.9 N•m) or crimp terminal twice, spacing crimps a distance of one-third from each end (as shown below) using an appropriate crimp tool and die. See page 5 for recommended crimping tools.



Related products:

Catalog no.	Description	Data sheet no.
HEX	Two-pole supplemental in-line fuse holder	2126
HEZ	One-pole Class CC in-line fuse holder	2130
HEY	Two-pole Class CC in-line fuse holder	2126
HET	One-pole in-line, permanently installed neutral	2125
NNB	13/32" x 1-1/2" neutral dummy link (not a fuse)	—

* The Bussmann series HEB in-line fuse holders are the legacy Bussmann TRON™ HEB in-line fuse holders.

† See terminal data tables for exceptions.

Powering Business Worldwide

Bussmann series HEB breakaway and non-breakaway in-line fuse holders for UL 13/32" x 1-1/2" supplemental fuses

Non-breakaway catalog number system

HEB - A A

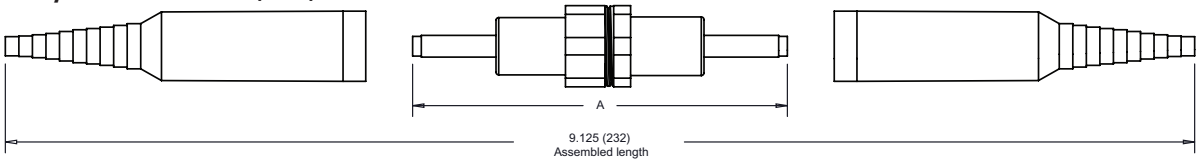
To order:

Specify catalog symbol HEB and the loadside terminal code. Then select a lineside terminal code that is available with the loadside terminal. Example: HEB-BB defines a non-breakaway holder with a loadside copper crimp terminal for a single #6 or two #10 wires with a lineside copper crimp terminal for a single #6 or two #10 wires.

Catalog symbol	Loadside terminal	Lineside terminal	Agency Info.		Loadside terminal		Lineside terminal		Ref. length A	Breakaway equivalent
			UL	CSA	Terminal type	Wire range*	Terminal type	Wire range*		
HEB	A	A	X	X	Cu crimp	#8-16; (2) #12-16 Sol/Str	Cu crimp	#8-16; (2) #12-16 Sol/Str	4.4 (112)	HEB-AW-RLC-A
		B	X	X	Cu crimp	#8-16; (2) #12-16 Sol/Str	Cu crimp	#6; (2) #10	4.4 (112)	HEB-AW-RLC-B
		C	X	X	Cu crimp	#8-16; (2) #12-16 Sol/Str	Cu crimp	#4; (2) #8	4.7 (119)	HEB-AW-RLC-C
		D	X	X	Cu crimp	#8-16; (2) #12-16 Sol/Str	Cu crimp	#2; (2) #6	4.7 (119)	—
		J	X	X	Cu crimp	#8-16; (2) #12-16 Sol/Str	Cu setscrew	#3-12 Str; #10-12 Sol	4.7 (119)	HEB-AW-RLC-J
		K	X	X	Cu crimp	#8-16; (2) #12-16 Sol/Str	Cu dual setscrew	#2-12 Str†; #10-12 Sol†	4.8 (122)	HEB-AW-RYC
		R	—	—	Cu crimp	#8-16; (2) #12-16 Sol/Str	Al crimp	#1-2	4.9 (124)	—
		L	—	—	Cu crimp	#8-16; (2) #12-16 Sol/Str	Al setscrew	#2-12	4.7 (119)	HEB-AW-RLA
		W	—	—	Cu crimp	#8-16; (2) #12-16 Sol/Str	Cu solid	—	4.4 (112)	—
		Y	—	—	Cu crimp	#8-16; (2) #12-16 Sol/Str	Al dual setscrew	#2-12†	4.8 (122)	HEB-AW-RYA
	B	A	X	X	Cu crimp	#6; (2) #10	Cu crimp	#8-16; (2) #12-16 Sol/Str	4.4 (112)	HEB-BW-RLC-A
		B	X	X	Cu crimp	#6; (2) #10	Cu crimp	#6; (2) #10	4.4 (112)	HEB-BW-RLC-B
		C	X	X	Cu crimp	#6; (2) #10	Cu crimp	#4; (2) #8	4.7 (119)	—
		D	X	X	Cu crimp	#6; (2) #10	Cu crimp	#2; (2) #6	4.7 (119)	—
		W	—	—	Cu crimp	#6; (2) #10	Cu solid	—	4.4 (112)	—
	C	C	X	X	Cu crimp	#4; (2) #8	Cu crimp	#4; (2) #8	5 (127)	—
	D	D	X	X	Cu crimp	#2; (2) #6	Cu crimp	#2; (2) #6	5 (127)	—
	Z	A	—	—	Cu crimp	#18-20	Cu crimp	#8-16; (2) #12-16 Sol/Str	4.4 (112)	—
	J	J	X	X	Cu setscrew	#3-12 Str; #10-12 Sol	Cu setscrew	#3-12 Str; #10-20 Sol	5 (127)	HEB-JW-RLC-J
		K	X	X	Cu setscrew	#3-12 Str; #10-12 Sol	Cu dual setscrew	#3-12 Str†; #10-20 Sol†	5.1 (129)	HEB-JW-RYC
		L	—	—	Cu setscrew	#3-12 Str; #10-12 Sol	Al setscrew	#2-12	5 (127)	—
		W	—	—	Cu setscrew	#3-12 Str; #10-12 Sol	Cu solid	—	4.8 (122)	—
		Y	—	—	Cu setscrew	#3-12 Str; #10-12 Sol	Al dual setscrew	#2-12†	5.1 (129)	—

* Stranded conductors unless otherwise noted.
† Not dual wire rated. One wire per opening.

Non-breakaway dimensions - in (mm):



Non-breakaway catalog number system

HEB - A A

Catalog symbol	Loadside terminal	Lineside terminal	Agency Information		Loadside terminal		Lineside terminal		Reference length A	Breakaway equivalent
			UL	CSA	Terminal type	Wire range*	Terminal type	Wire range*		
HEB	L	L	—	—	Al setscrew	#2-12	Al setscrew	#2-12	5 (127)	HEB-LW-RLA
	N	N	—	—	Al crimp	#8 Str; #6 Sol	Al crimp	#8 Str; #6 Sol	5.4 (137)	—
	P	P	—	X	Al crimp	#6 Str; #4 Sol	Al crimp	#6 Str; #4 Sol	5.4 (137)	—
	Q	Q	—	X	Al crimp	#3-4 Str; #2 Sol	Al crimp	#3-4 Str; #2 Sol	5.4 (137)	—
	R	R	—	X	Al crimp	#1-2	Al crimp	#1-2	5.4 (137)	—
	T	T	—	X	Al crimp	1/0	Al crimp	1/0	5.4 (137)	—
	W	W	—	—	Cu solid	—	Cu solid	—	4.4 (112)	—

* Stranded conductors unless otherwise noted.

Non-Breakaway terminal data

Terminal type	Conductor data: Wire range	No. per terminal	Solid	Stranded	Catalog symbol [Load /Line]
Cu crimp	#8-16	1	•	•	A
	#12-16	2	•	•	
	#6	1	•	•	B
	#10	2	•	•	
	#4	1	—	•	C††
	#8	2	•	•	
	#2	1	—	•	D††
	#6	2	•	•	
	#18-20	1	•	•	Z
Cu setscrew	#3-12	1	—	•	J
	#10-12	1	•	•	
Cu dual setscrew	#2-12	2†	—	•	K
	#10-12	2†	•	•	
Cu solid	—	—	—	—	W

Terminal type	Conductor data: Wire range	No. per terminal	Solid	Stranded	Catalog symbol [Load /Line]
Al crimp	#8	1	—	•	N
	#6	1	•	—	
	#6	1	—	•	P
	#4	1	•	—	
	#3-4	1	—	•	Q
	#2	1	•	—	
	#1-2	1	—	•	R
	#1/0	1	—	•	T
Al setscrew	#2-12	1	•	•	L
Al dual setscrew	#2-12	2†	•	•	Y

† Not dual wire rated. One wire per opening.
†† Fuse holder assemblies using this terminal are not RoHS compliant.

Bussmann series HEB breakaway and non-breakaway in-line fuse holders for UL 13/32" x 1-1/2" supplemental fuses

Breakaway catalog number system

HEB - A W - RYC

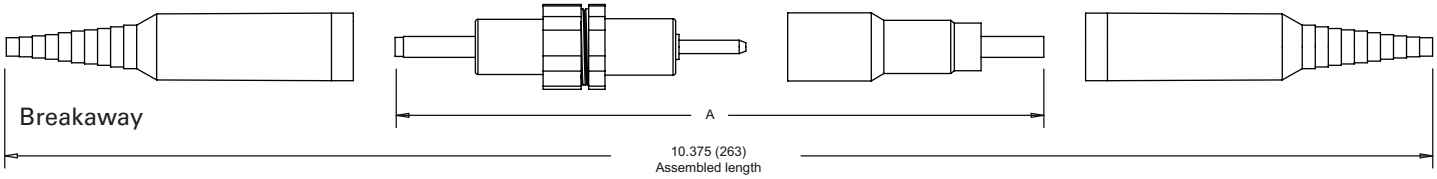
To order:

Specify catalog symbol HEB and the loadside terminal code plus the letter "W." Then select a lineside terminal code that is available with the loadside terminal. Example: HEB-BW-RCL-B defines a breakaway holder with a loadside copper crimp terminal for a single #6 or two #10 wires with a lineside copper crimp terminal for a single #6 or two #10 wires.

Catalog symbol	Loadside terminal	Lineside terminal	Agency Info.		Loadside terminal		Lineside terminal		Length A (ref.)	Non-breakaway equivalent
			UL	CSA	Terminal type	Wire range*	Terminal type	Wire range*		
HEB	A	RLC-A	X	X	Cu crimp	#8-16; (2) #12-16 Sol/Str	Cu crimp	#8-16; (2) #12-16 Sol/Str	5.8 (147)	HEB-AA
		RLC-B	X	X	Cu crimp	#8-16; (2) #12-16 Sol/Str	Cu crimp	#6; (2) #10	5.9 (150)	HEB-AB
		RLC-C	X	X	Cu crimp	#8-16; (2) #12-16 Sol/Str	Cu crimp	#4; (2) #8	6.2 (158)	HEB-AC
		RLC-J	X	X	Cu crimp	#8-16; (2) #12-16 Sol/Str	Cu setscrew	#3-12 Str #10-12 Sol	6.2 (158)	HEB-AJ
		RYC	X	X	Cu crimp	#8-16; (2) #12-16 Sol/Str	Cu dual setscrew	#2-12 Str†; #10-12 Sol†	6.3 (159)	HEB-AK
		RLA	—	—	Cu crimp	#8-16; (2) #12-16 Sol/Str	Al setscrew	#2-12	6.2 (158)	HEB-AL
		RYA	—	—	Cu crimp	#8-16; (2) #12-16 Sol/Str	Al dual setscrew	#2-12†	6.3 (159)	HEB-AY
	B	RLC-A	X	X	Cu crimp	#6; (2) #10	Cu crimp	#8-16; (2) #12-16	5.8 (147)	HEB-BA
		RLC-B	X	X	Cu crimp	#6; (2) #10	Cu crimp	6#; (2) #10	5.9 (150)	HEB-BB
		RYC	X	X	Cu crimp	#6; (2) #10	Cu dual setscrew	#2-12 Str†; #10-12 Sol†	6.3 (159)	—
	J	RLC-J	X	X	Cu setscrew	#3-12 Str; #10-12 Sol	Cu setscrew	#3-12 Str; #10-12 Sol	6.2 (158)	HEB-JJ
		RYC	X	X	Cu setscrew	#3-12 Str; #10-12 Sol	Cu dual setscrew	#2-12 Str†; #10-12 Sol†	6.3 (159)	HEB-JK
	K	RLC-J	X	X	Cu dual setscrew	#2-12 Str†; #10-12 Sol†	Cu setscrew	#3-12 Str; #10-12 Sol	6.2 (158)	—
		RYC	X	X	Cu dual setscrew	#2-12 Str†; #10-12 Sol†	Cu dual setscrew	#2-12 Str†; #10-12 Sol†	6.3 (159)	—
	L	RLA	—	—	Al setscrew	#2-12	Al setscrew	#2-12	6.2 (158)	HEB-LL
		RLC-J	—	—	Al setscrew	#2-12	Cu setscrew	#3-12	6.2 (158)	—
		RYA	—	—	Al setscrew	#2-12	Al dual setscrew	#2-12†	6.3 (159)	—

* Stranded conductors unless otherwise noted.
† Not dual wire rated. One wire per opening.

Dimensions - in (mm):



Breakaway loadside terminal data

Terminal type	Conductor data: Wire range	Conductor data: No. per terminal	Conductor data: Solid	Conductor data: Stranded	Catalog symbol [Load /Line (2) & (3)]
Cu crimp 	#8-16	1	•	•	A
	#10-16	2	•	•	
	#6	1	•	•	B
	#10	2	•	•	
Cu setscrew 	#3-12	1	—	•	J
	#10-12	1	•	—	
Cu dual setscrew 	#2-12	2†	—	•	K
	#10-12	2†	•	—	
Al setscrew 	#2-12	1	•	•	L

† Not dual wire rated. One wire per opening.
†† Fuse holder assemblies using this terminal are not RoHS compliant.

Breakaway lineside terminal data

Terminal type	Conductor data: Wire range	Conductor data: No. per terminal	Conductor data: Solid	Conductor data: Stranded	Catalog symbol
Cu crimp 	#8-16	1	•	•	-RLC-A
	#12-16	2	•	•	
	#6	1	•	•	-RLC-B
	#10	2	•	•	
	#4	1	—	•	-RLC-C††
	#8	2	•	•	
Cu setscrew 	#3-12	1	—	•	-RLC-J
	#10-12	1	•	—	
Cu dual setscrew 	#2-12	2†	—	•	-RYC
	#10-12	2†	•	—	
Al setscrew 	#2-12	1	•	•	-RLA
Al dual setscrew 	#2-12	2†	•	•	-RYA

Recommended crimping tools

A wide variety of crimping tools can be used with the HEB fuse holders. Some of the commercially available tools are listed in the table below. This list is not intended to exclude the use of other crimping tools that can provide similar crimps or indents.

HEB terminal	T & B P/N (Die)
A	WT-111M (Die C)
	Sta-Kon ERG4002 (Die C)
B	WT-115A (Die D)
C	TBM5 (Grey Die)
	WT-115A (Die E)
D	TBM5 (Brown Die)
	TBM8 (Brown Die)
	WT-115A (Die F)
Z	WT-111M (Die A)
	Sta-Kon ERG4002 (Die A)
N, P, Q, R, T	TBM8 (Orange Die)

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Eaton.com

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Ellisville, MO 63021
United States
Eaton.com/bussmannseries

Publication No. 2127 - BU-SB15154
January 2019

For Eaton's Bussmann series product information, call **1-855-287-7626** or visit: **Eaton.com/bussmannseries**

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Powering Business Worldwide

TRON® In-Line Fuseholders
Single-Pole for SC-35 – 60A and HVW Fuses

HEJ Series

Non-Breakaway Holders
HEJ Series Catalog Symbol: HEJ-AA(1) (2) (3), HEJ-AB, HEJ-AC, HEJ-BB, HEJ-CC, HEJ-DD, HEJ-JJ, HEJ-JK, HEJ-LL, HEJ-PP, and HEJ-QQ
In-Line Fuseholders, Single-Pole
Water-Resistant
Agency Information:
(1)UL Recognized, Guide lZLT2, File E14853
(2)CSA Certified, Class 6225-01, File 47235
(3)CE

HEJ — For SC fuses; 35A to 60A and high voltage fuses. Type HVW, ½ to 6A, 1200Vac (or less). Fuse size $^{13}/_{32}$″ × 2¼″. Holder rated 60A, 480V

Example:
A single-pole, in-line holder for a SC-40 fuse. A single #8 copper, stranded wire is on the load. Copper crimp connection desired. Two #10 copper, stranded wires are on the line side. Copper crimp is the desired connection.
1. Choose HEJ- series.
2. Choose “A” for load side.
3. Choose “B” for line side.

Complete Part Number: HEJ-AB

Ordering Information:

HEJ	—			
		Load Terminal		Line Terminal

Recommended Torque on Coupling Nut: 10-20 in-lb.

Catalog and Specification Data

Conductor Terminals

Terminal Type	Conductor Data Size	No. Per Terminal	Solid	Stranded	Catalog Symbol Load & Line
Copper Crimp	#12 to #8	1	•	•	A
	#12	2	•	•	
	#10	2	•	•	B
	#6	1	•	•	
	#4	1	•	•	
	#8	2	•	•	C
	#4	1	—	•	
	#6	2	•	•	D
	#2	1	—	•	
Copper Set-Screw	#12 to #3	1	•	•	J
	#12 to #2	2	•	•	K
Aluminum Crimp	#6	1	—	•	P
	#4	1	•	—	
	#3, #4	1	—	•	Q
	#2	1	•	—	
Aluminum Set-Screw	#12 to #2	1	•	•	L

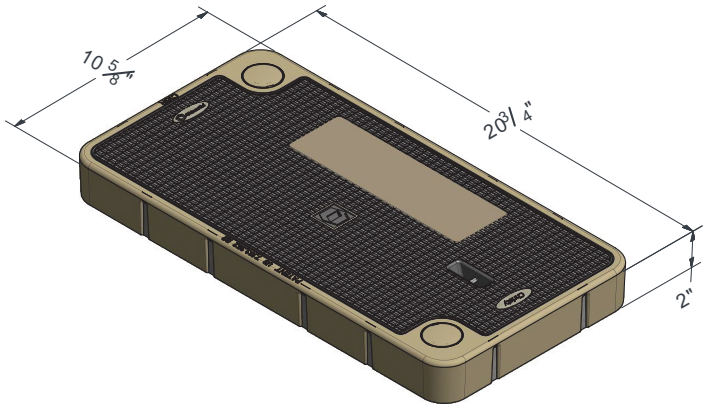
Catalog Data — Insulating Boots

Catalog Numbers	Type
2A0660	Single Conductor
2A0661	Two Conductor

Insulating boots are not included with non-breakaway parts and must be ordered separately. They come standard with the breakaway series. When boots are utilized, extra heat retention requires that fuses are sized at a minimum of 200% of the RMS load current.

N16

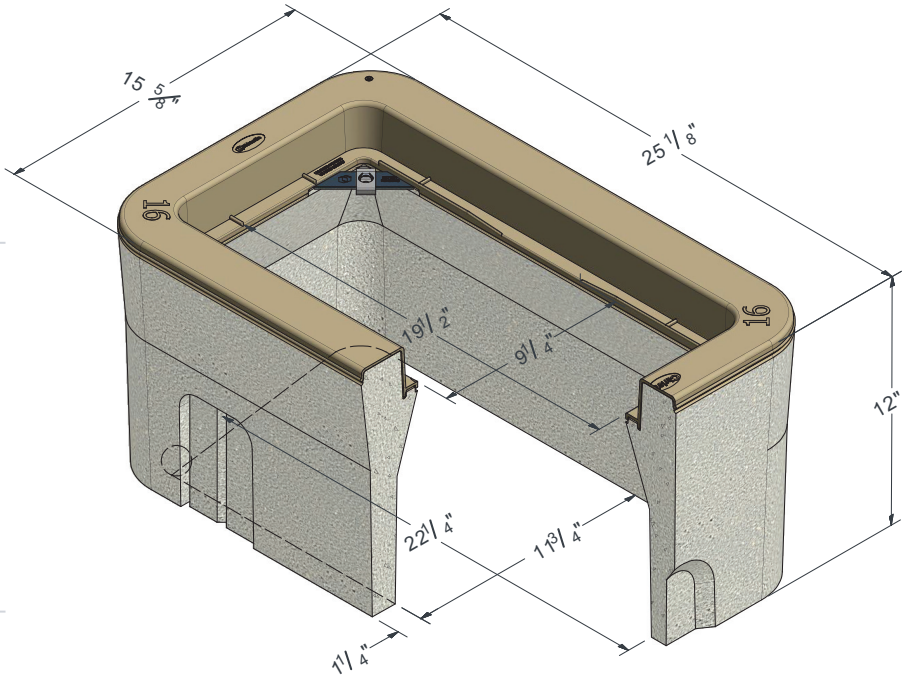
CHRISTY®



COVER

Style:	Flush
Material:	Composite with UV Inhibitor
Model:	11" x 21"
Weight:	32 lbs
Options:	Special Markings
Surface:	Skid Resistant & Marked*
Coefficient of Friction:	>0.6 ASTM 1028
Performance:	ASTM C 857, WUC 3.6

Cover comes standard with permanent markings for manufacturer, load rating, model size and manufacturing location.



BODY

Material:	Reinforced Concrete with Composite Cap
Model:	25" x 16"
Weight:	112 lbs
Wall Type:	Straight
Mouseholes:	0 - 2
Performance:	ASTM C 857, WUC 3.6

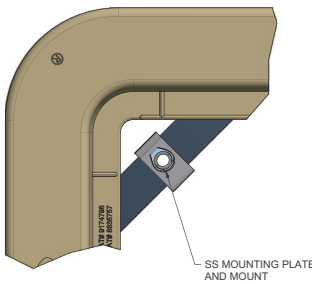
EXTENSION

Material:	Reinforced Concrete
Depth:	12"
Weight:	113 lbs

LOAD RATING / NOTES

LIGHT DUTY
PEDESTRIAN / GREENBELT

For use in non-vehicular traffic situations only. Weights and dimensions may vary slightly. Actual load rating is determined by the box and cover combination.



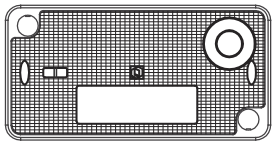
Bolt Down Detail

N16

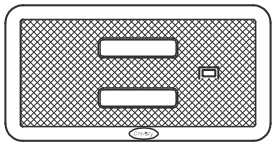
CHRISTY®

COVER OPTIONS

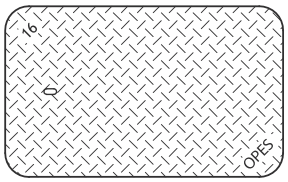
R-Series, Flush Solid
Cast Iron, Flush Solid
Steel Checker Plate, Solid



R-Series
Flush



Cast Iron
Flush



Steel Checker
Plate

COVER OPTIONS

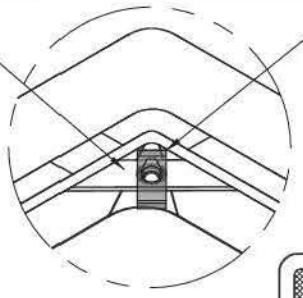
Bolt Down Locking (R-Series Covers)
Galvanizing (Steel Covers)
EMS Marker

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

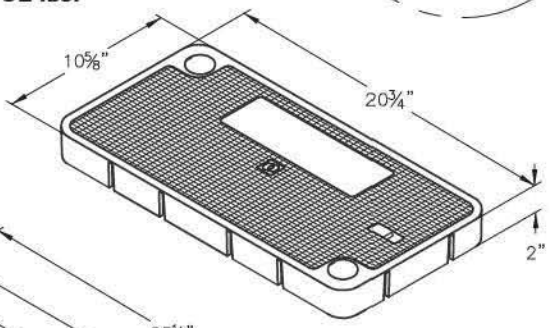
Revision 12/06/18

Electrical & Telephone Boxes

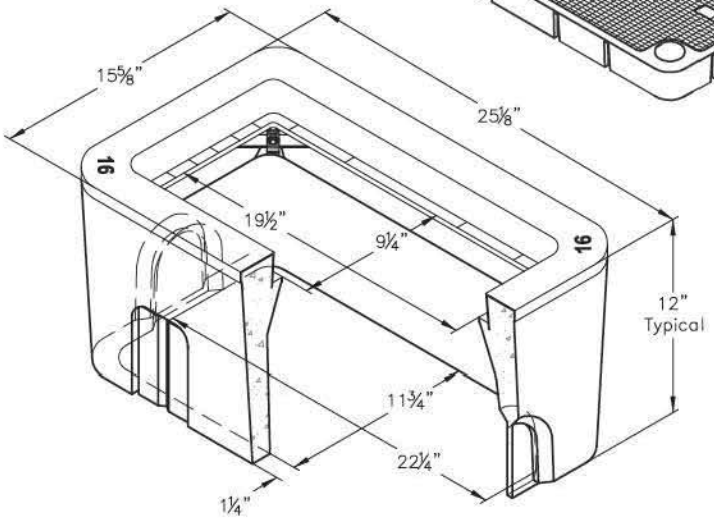
- Etched polypropylene face
- Face anchored in concrete
- Ultra–violet inhibitor
- Exceeds ASTM–D1693 Standards for Environmental Stress Cracking Resistance

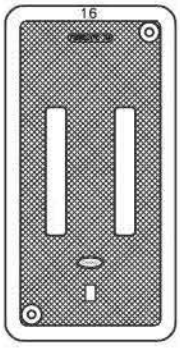


R-Series Composite Lid
No. N16R
32 lbs.

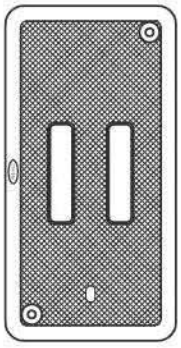


Electrical Box
No. N16 BOX
112 lbs.

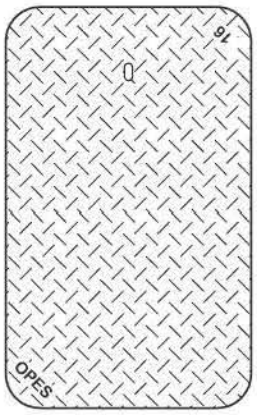




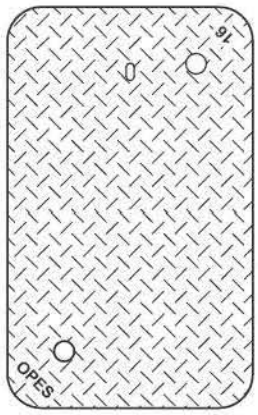
N16J



FL16T



B16-61D



N16-61J

A high density reinforced concrete box with non–settling shoulders positioned to maintain grade and facilitate back filling. Approximate dimensions and weight shown.

Oldcastle Ordering Code	Item	Approx. Shipping Weight	Description
N16BOX	BOX	112 lbs.	N16 Electrical Box (11¾" x 22¼") – 20 per pallet
N16R	LID	32 lbs.	R–Series Composite Lid with Polypropylene Ring (Order N90 Bolt Down Kit Separately)
FL16T	LID	13 lbs.	Fibrelyte Lid, Non–Concrete Bolt Down (Order N90 Bolt Down Kit Separately)
N16J	LID	36 lbs.	Cast Iron Lid Bolt Down (Order N90 Bolt down Kit Separately)
B16–61D	COVER	28 lbs.	Steel Checker Plate Cover
N16–61J	COVER	28 lbs.	Steel Checker Plate Cover, Bolt Down (Order N90 Bolt Down Kit Separately)
B16X12	EXTENSION	113 lbs.	12" Reinforced Concrete Box Extension – 20 per pallet
B30SL	SLAB	52 lbs.	Reinforced Concrete Slab (16" x 28")
Galvanizing available on all steel covers.			

Oldcastle® Enclosure Solutions

Phone: (800) 486–7070 Fax: (800) 486–6804

N16 BOX

FILE NAME: N16_ISO

ISSUE DATE: January, 2011

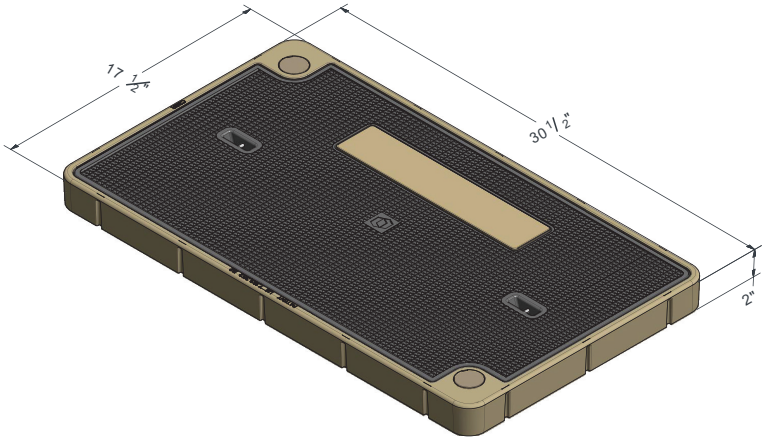
www.oldcastleprecast.com

N16 ELECTRICAL BOX
11-3/4" x 22-1/4"

CHRISTY Concrete

N36

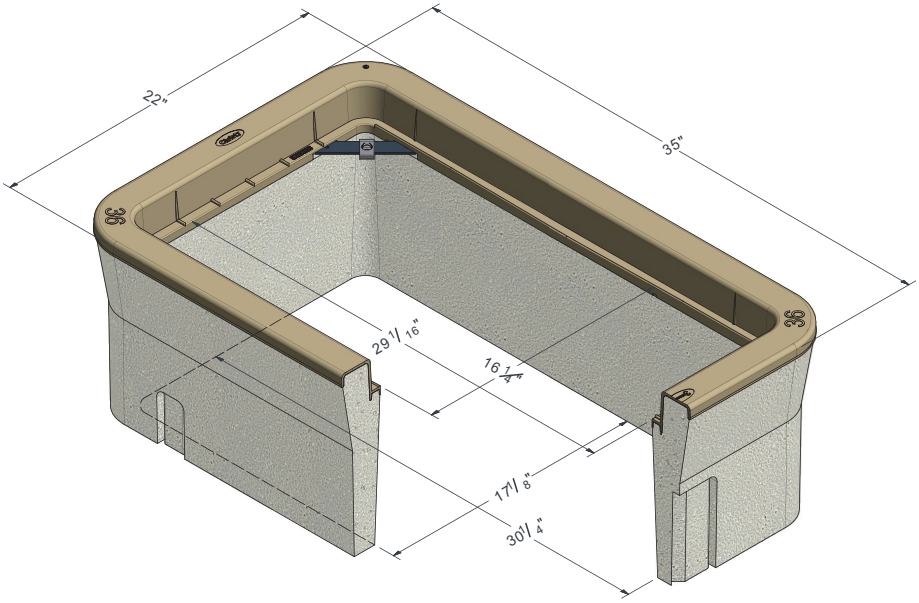
CHRISTY®



COVER

Style:	Flush
Material:	Composite with UV Inhibitor
Model:	17" x 30"
Weight:	76 lbs
Options:	Special Markings
Surface:	Skid Resistant & Marked*
Coefficient of Friction:	>0.6 ASTM 1028
Performance:	ASTM C 857, WUC 3.6

Cover comes standard with permanent markings for manufacturer, load rating, model size and manufacturing location.



BODY

Material:	Reinforced Concrete with Composite Cap
Model:	22" x 35"
Weight:	172 lbs
Wall Type:	Straight
Mouseholes:	0 - 2
Performance:	ASTM C 857, WUC 3.6

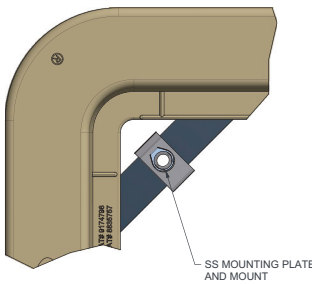
EXTENSION

Material:	Reinforced Concrete
Depth:	12"
Weight:	189 lbs

LOAD RATING / NOTES

LIGHT DUTY
PEDESTRIAN / GREENBELT

For use in non-vehicular traffic situations only. Weights and dimensions may vary slightly. Actual load rating is determined by the box and cover combination.



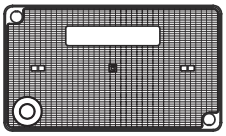
Bolt Down Detail

N36

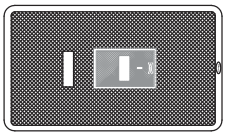
CHRISTY®

COVER OPTIONS

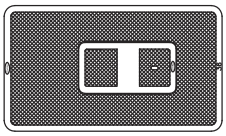
R-Series, Flush Solid
R-Series, Flush with AMR Opening
Concrete, Flush with Cast Iron Reader Door
Concrete, Flush with Concrete Reader Lid
Steel Checker Plate, Solid
Steel Checker Plate, with Reader Door



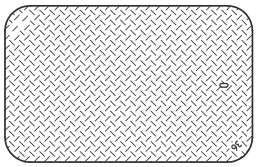
R-Series
with AMR Opening



Concrete with
Cast Iron Reader Door



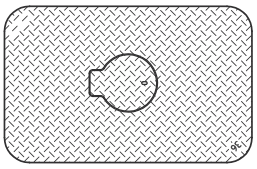
Concrete with
Concrete Reader Lid



Steel Checker Plate

COVER OPTIONS

Bolt Down Locking (R-Series Covers)
Galvanizing (Steel Covers)
EMS Marker



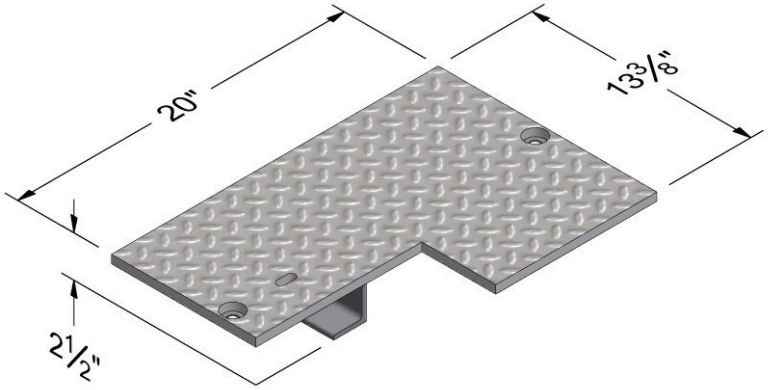
Steel with 8" Round
Reader Door

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

Revision 12/06/18

B1017

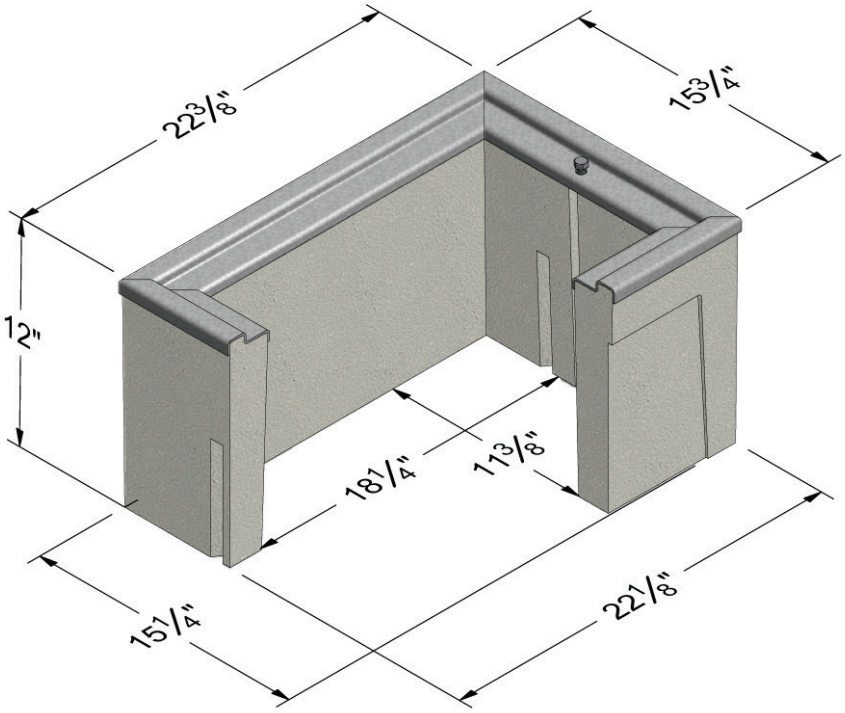
CHRISTY®



COVER

Style:	Flush
Material:	Steel Checker Plate
Model:	14" x 20"
Weight:	44 lbs
Options:	Special Markings
Surface:	Skid Resistant & Marked*
Coefficient of Friction:	>0.6 ASTM 1028
Performance:	H20, AASHTO M309

Cover comes standard with permanent markings for manufacturer, load rating, model size and manufacturing location.

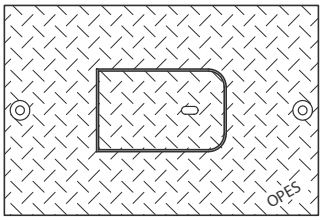


BODY

Material:	Reinforced Concrete with Steel Frame
Model:	16" x 22"
Weight:	130 lbs
Wall Type:	Straight
Mouseholes:	0
Performance:	H20, AASHTO M309

COVER OPTIONS

Reader Door
AMR Opening
Bolt Down Locking
Galvanizing
EMS Marker



Reader Door Detail

LOAD RATING / NOTES

TRAFFIC RATED
AASHTO H20

Actual load rating is determined by the box and cover combination.

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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