Special Purpose

A world of circuit protection under one roof.



Your problem: Parallel cables from your main transformer. The welding station down in the machine shop. Need a fuse designed specifically to protect your solar power installation? Applications as varied and specialized as telecommunications systems, forklifts, and DC-powered equipment . . . If your plant is like most, it's full of highly specialized circuit protecting applications. Still, as specialized as the installations sometimes are, they have in common the need for a high performance, failsafe solution.

Our solution: No matter how specialized your application is, Mersen brings its broad expertise and numerous resources to bear on it. The result is a line of Special Purpose Fuses that unfailingly perform to application-specific requirements. Whether you're specifying our Helio Protection fuses, Cable Protectors, Welder Protectors, and Telecommunications fuses — or replacing our Form 600 fuses, or Forklift Truck fuses.

Want more information fast? For more technical or application-specific information, please call our special purpose products experts, at 978-462-6662; 416-252-9371 in Canada; or visit our website at **ep.mersen.com.**

G Special Purpose

- CP 600V Cable Protectors G2
- 2CL 250V Cable Protectors..... G10
- A60C Capacitor Fuses G11
- A4BX Welder Protectors..... G12
- A2Y & A6Y Form 600 Fuses..... G13
- Forklift Truck Fuses..... G15
- DC Rated Fuses..... G17
- HP6M PV Fuses..... G35
- HP6J PV Fuses..... G36
- HP10M PV Fuses..... G38
- HP10J PV Fuses..... G39
- HP10NH PV Fuses G43
- HP15G PV Fuses..... G45
- HP15M PV Fuses..... G46
- HP15NH PV Fuses G47

CP 600V Cable Protectors

Cable Protectors

Mersen CP Cable Protectors are special purpose limiters which are crimped or bolted to cables or terminals to clear and isolate faults quickly, increasing the reliability of service entrance and distribution runs. CP Cable Protectors have a 200,000A interrupting rating, yet will carry low cable overloads which are handled by standard protective devices. Cable protectors are rated in terms of cable size and material (Al or Cu). Heavier duty CPH cable protectors are available on special order. Heat shrinkable (HS) tubing can be specified for field installation. TI blown fuse trigger indicators may be available upon request. Refer to the application information section for more information.



Features/Benefits:

- Fiberglass bodies for dimensional stability in harsh environments
- Catalog number stamped into terminal for permanent identification
- Crimp terminals for aluminum cable include oxide inhibitor
- Molded rubber boots or heat shrinkable tubing available for insulation and protection
- Current limiting device
- Permitted by National Electric Code

Ratings:

Sizes #2 to 1000kcmil aluminum or copper

Volts : 600VAC
IR : 200kA I.R. AC

Approvals:

- UL listed to File E305297

UL LISTED

Description			Catalog # for Cable Type	
Type	Termination	Cable Size	Copper	Aluminum
1	Cable to Cable	2	CP2C1	-
		1/0	CP1/0C1	-
		2/0	CP2/0C1	-
		4/0	CP4/0C1	CP4/0A1
		250kcmil	CP250C1	CP250A1
		350kcmil	CP350C1	CP350A1
		400kcmil	CP400C1	-
		500kcmil	CP500C1	CP500A1
		600kcmil	CP600C1	CP600A1
		750kcmil	CP750C1	CP750A1
		1000kcmil	CP1000C1	-
3	Cable to Offset Bus	2	CP2C3	-
		1/0	CP1/0C3	-
		2/0	CP2/0C3	-
		4/0	CP4/0C3	CP4/0A3
		250kcmil	CP250C3	CP250A3
		350kcmil	CP350C3	CP350A3
		400kcmil	CP400C3	-
		500kcmil	CP500C3	CP500A3
		600kcmil	CP600C3	CP600A3
		750kcmil	CP750C3	CP750A3
		1000kcmil	CP1000C3	-
5	Straight Bus to Offset Bus	2/0	CP2/0C5	CP2/0C5
		4/0	CP4/0C5	CP4/0C5
		250kcmil	CP250C5	CP250C5
		350kcmil	CP350C5	CP350C5
		500kcmil	CP500C5	CP500C5
		600kcmil	CP600C5	CP600C5
		750kcmil	CP750C5	CP750C5
6	Mole to Cable	4/0	CP4/0C6	CP4/0A6
		250kcmil	CP250C6	CP250A6
		350kcmil	CP350C6	CP350A6
		400kcmil	CP400C6	-
		500kcmil	CP500C6	CP500A6
		750kcmil	CP750C6	CP750A6
8	Mole to Offset Bus	4/0	CP4/0C8	CP4/0C8
		250kcmil	CP250C8	CP250C8
		350kcmil	CP350C8	CP350C8
		500kcmil	CP500C8	CP500C8
		750kcmil	CP750C8	CP750C8

Catalog Numbering System

CP 500 C 3 - TI

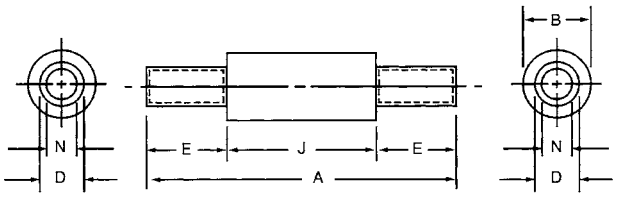
- Standard Duty / Heavy Duty: CP / CPH
- Conductor Size
- Cable Material: Copper C / Aluminum A
- Termination
- Heat Shrink: HS
- Trigger Indicator: TI

**Please consult factory for special terminations.*

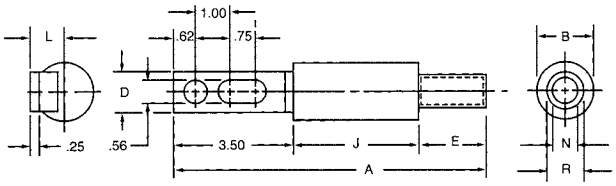
CP 600V Cable Protectors

Type C1 – Dimensions (Cable to Cable - Copper)

Catalog No.	Cable* Size	Dimensions - Inches (mm) A	B	D	E	J	N
CP2C1	#2	7.12 (180)	1.44 (37)	.42 (11)	1.75 (44)	3.62 (92)	.31 (7.9)
CP1/0C1	1/0	7.12 (180)	1.44 (37)	.52 (13)	1.75 (44)	3.62 (92)	.39 (9.9)
CP2/0C1	2/0	7.12 (180)	1.44 (37)	.56 (14)	1.75 (44)	3.62 (92)	.44 (11)
CP4/0C1	4/0	7.12 (180)	1.44 (37)	.68 (17)	1.75 (44)	3.62 (92)	.55 (14)
CP250C1	250kcmil	7.38 (188)	1.44 (37)	.75 (19)	1.88 (48)	3.62 (92)	.62 (16)
CP350C1	350kcmil	7.62 (194)	1.62 (41)	.88 (22)	2.00 (51)	3.62 (92)	.71 (18)
CP400C1	400kcmil	7.62 (194)	1.62 (41)	.94 (.24)	2.00 (51)	3.62 (92)	.75 (19)
CP500C1	500kcmil	9.38 (238)	1.88 (48)	1.05 (27)	2.88 (73)	3.62 (92)	.85 (22)
CP600C1	600kcml	9.51 (242)	2.50 (64)	1.07 (27)	2.88 (73)	3.75 (95)	.94 (24)
CP750C1	750kcmil	9.51 (242)	2.50 (64)	1.32 (34)	2.88 (73)	3.75 (95)	1.06 (27)
CP1000C1	1000kcmil	10.00 (254)	3.00 (76)	1.50 (38)	3.13 (79)	3.75 (95)	1.16 (29)



Type C1



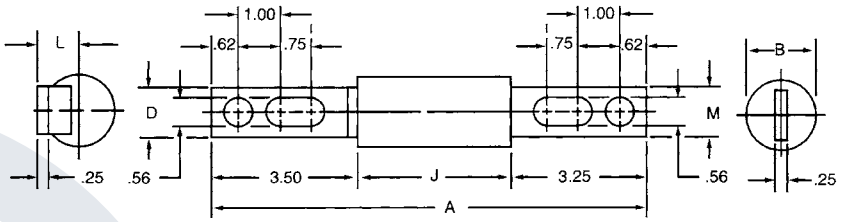
Type C3

Type C3 – Dimensions (Cable to Offset Bus- Copper)

Catalog No.	Cable* Size	Dimensions - Inches (mm) A	B	D	E	I	J	L	N	R
CP2C3	#2	8.87 (225)	1.44 (37)	1.12 (28)	1.75 (44)	3.50 (88.9)	3.62 (92)	.96 (24)	.31 (7.9)	.42 (11)
CP1/0C3	1/0	8.87 (225)	1.44 (37)	1.12 (28)	1.75 (44)	3.50 (88.9)	3.62 (92)	.96 (24)	.39 (9.9)	.52 (13)
CP2/0C3	2/0	8.87 (225)	1.44 (37)	1.12 (28)	1.75 (44)	3.50 (88.9)	3.62 (92)	.96 (24)	.44 (11)	.56 (14)
CP4/0C3	4/0	8.87 (225)	1.44 (37)	1.12 (28)	1.75 (44)	3.50 (88.9)	3.62 (92)	.96 (24)	.55 (14)	.68 (17)
CP250C3	250kcmil	9.00 (229)	1.44 (37)	1.12 (28)	1.88 (48)	3.50 (88.9)	3.62 (92)	.96 (24)	.62 (16)	.75 (19)
CP350C3	350kcmil	9.12 (232)	1.62 (41)	1.12 (28)	2.00 (51)	3.50 (88.9)	3.62 (92)	.96 (24)	.71 (18)	.88 (22)
CP400C3	400kcmil	9.12 (232)	1.62 (41)	1.12 (28)	2.00 (51)	3.50 (88.9)	3.62 (92)	.96 (24)	.75 (19)	.88 (22)
CP500C3	500kcmil	10 .00 (254)	1.88 (48)	1.62 (41)	2.88 (73)	3.50 (88.9)	3.62 (92)	1.19 (30)	.85 (22)	1.05 (27)
CP600C3	600kcmil	10 .13 (257)	2.50 (64)	2.00 (51)	2.88 (73)	3.50 (88.9)	3.75 (95)	1.31 (33)	.94 (24)	1.07 (27)
CP750C3	750kcmil	10.13 (257)	2.50 (64)	2.00 (51)	2.88 (73)	3.50 (88.9)	3.75 (95)	1.31 (33)	1.06 (27)	1.32 (34)
CP1000C3	1000kcmil	10.63 (270)	3.00 (76)	2.00 (51)	3.13 (79)	3.75 (95)	3.75 (95)	1.56 (40)	1.16 (29)	1.50 (38)

Type C5 – Dimensions (Straight Bus to Offset Bus - Copper)

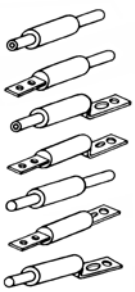
Catalog No.	Cable Size	Dimensions - Inches (mm) A	B	D	J	L	M
CP4/0C5	4/0	10.37 (263)	1.44 (37)	1.12 (28)	3.62 (92)	.96 (24)	1.12 (28)
CP250C5	250kcmil	10.37 (263)	1.44 (37)	1.12 (28)	3.62 (92)	.96 (24)	1.12 (28)
CP350C5	350kcmil	10.37 (263)	1.62 (41)	1.12 (28)	3.62 (92)	.96 (24)	1.12 (28)
CP400C5	400kcmil	10.37 (263)	1.62 (41)	1.12 (28)	3.62 (92)	.96 (24)	1.12 (28)
CP500C5	500kcmil	10.37 (263)	1.88 (48)	1.62 (41)	3.62 (92)	1.19 (30)	1.50 (38)
CP600C5	600kcmil	10.50 (267)	2.50 (64)	2.00 (51)	3.75 (95)	1.31 (33)	2.00 (51)
CP750C5	750kcmil	10.50 (267)	2.50 (64)	2.00 (51)	3.75 (95)	1.31 (33)	2.00 (51)



Type C5

Cable Type

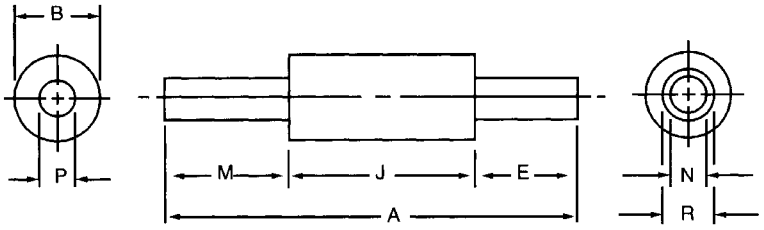
TYPE 1 —Cable to cable
TYPE 2 —Bus to cable
TYPE 3 —Cable to offset bus
TYPE 5 —Bus to offset bus
TYPE 6 —Mole to cable
TYPE 7 —Bus to bus
TYPE 8 —Mole to offset bus



** kcmil = MCM*

Type C6 – Dimensions (Mole to Cable - Copper)

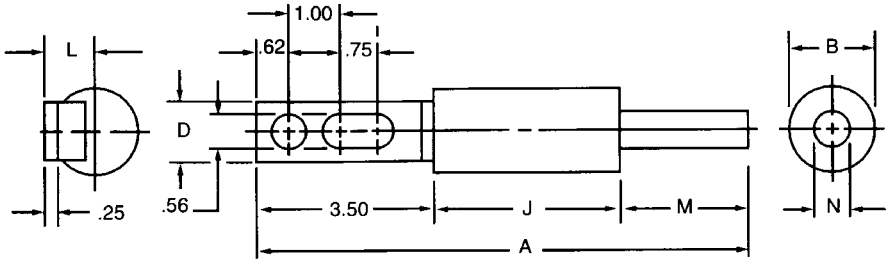
Catalog No.	Cable* Size	Dimensions - Inches (mm)							
		A	B	E	J	M	N	P	R
CP4/0C6	4/0	7.87 (200)	1.44 (37)	1.75 (44)	3.62 (92)	2.50 (64)	.55 (14)	.52 (13)	.68 (17)
CP250C6	250kcmil	8.00 (203)	1.44 (37)	1.88 (48)	3.62 (92)	2.50 (64)	.62 (16)	.58 (14)	.75 (19)
CP350C6	350kcmil	8.12 (206)	1.62 (41)	2.00 (51)	3.62 (92)	2.50 64)	.71 (18)	.68 (17)	.88 (22)
CP500C6	500kcmil	9 .38 (238)	1.88 (48)	2.88 (73)	3.62 (92)	2.88 (73)	.85 (22)	.81 (21)	1.05 (27)
CP750C6	750kcmil	9.51 (427)	2.50 (64)	2.88 (73)	3.75 (95)	2.88 (73)	1.06 (27)	1.00 (25)	1.32 (34)



Type C6

Type C8 – Dimensions (Mole to Offset Bus - Copper)

Catalog No.	Cable* Size	Dimensions - Inches (mm)						
		A	B	D	J	L	M	N
CP4/0C8	4/0	9.62 (244)	1.44 (37)	1.12 (28)	3.62 (92)	.96 (24)	2.50 (64)	.52 (14)
CP250C8	250kcmil	9.62 (244)	1.44 (37)	1.12 (28)	3.62 (92)	.96 (24)	2.50 (64)	.58 (13)
CP350C8	350kcmil	9.62 (244)	1.62 (41)	1.12 (28)	3.62 (92)	.96 (24)	2.50 (64)	.68 (17)
CP500C8	500kcmil	10.00 (254)	1.88 (48)	1.62 (41)	3.62 (92)	1.19 (30)	2.88 (73)	.81 (21)
CP750C8	750kcmil	10.13 (257)	2.50 (64)	2.00 (51)	3.75 (95)	1.31 (33)	2.88 (73)	1.00 (25)



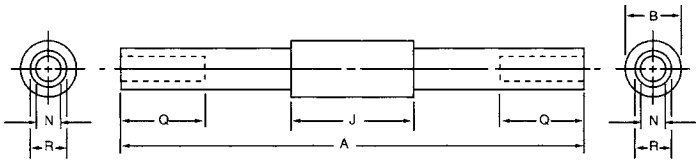
Type C8

** kcmil = MCM*

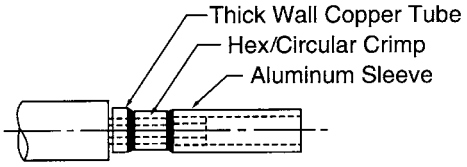
CP 600V Cable Protectors

Type A1 – Dimensions (Cable to Cable - Aluminum)

Catalog No.	Cable* Size	Dimensions - Inches (mm) A	B	J	N	Q	R
CP4/0A1	4/0	13.88 353)	1.44 (37)	3.62 (92)	.55 (14)	2.50 (64)	.85 (22)
CP250A1	250kcmil	13.88 (353)	1.44 (37)	3.62 (92)	.59 (15)	2.50 (64)	.94 (24)
CP350A1	350kcmil	13.88 (353)	1.62 (41)	3.62 (92)	.71 (18)	2.50 (64)	1.13 (29)
CP500A1	500kcmil	15.38 (391)	1.88 (48)	3.62 (92)	.85 (22)	2.88 (73)	1.33 (34)
CP750A1	750kcmil	15.50 (394)	2.50 (64)	3.75 (95)	1.06 (27)	2.88 (73)	1.62 (41)



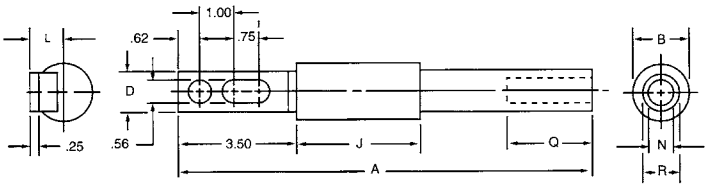
Type A1



Typical Terminal Assembly Details

Type A3 – Dimensions (Cable to Offset Bus - Aluminum)

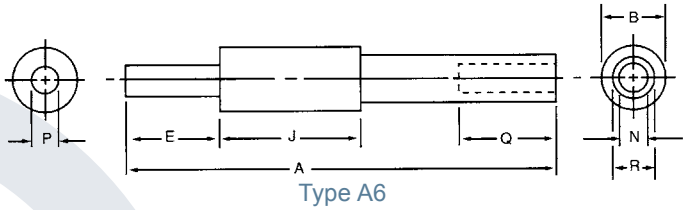
Catalog No.	Cable* Size	Dimensions - Inches (mm) A	B	D	J	L	N	Q	R
CP4/0A3	4/0	12.25(311)	1.44 (37)	1.12 (28)	3.62 (92)	.96 (24)	.55 (14)	2.50 (64)	.85 (22)
CP250A3	250kcmil	12.25 (311)	1.44 (37)	1.12 (28)	3.62 (92)	.96 (24)	.59 (15)	2.50 (64)	.94 (24)
CP350A3	350kcmil	12.25 (311)	1.62 (41)	1.12 (28)	3.62 (92)	.96 (24)	.71 (18)	2.50 (64)	1.13 (29)
CP500A3	500kcmil	13.00 (330)	1.88 (48)	1.62 (41)	3.62 (92)	1.19 (30)	.85 (22)	2.88 (73)	1.33 (34)
CP750A3	750kcmil	13.12 (333)	2.50 (64)	2.00 (51)	3.75 (95)	1.31 (33)	1.06 (27)	2.88 (73)	1.62 (41)



Type A3

Type A6 – Dimensions (Mole to Cable - Aluminum)

Catalog Number	Cable* Size	Dimensions - Inches (mm) A	B	E	J	N	P	Q	R
CP4/0A6	4/0	11.25 (286)	1.44 (37)	2.50 (64)	3.62 (92)	.55 (14)	.52 (13)	2.50 (64)	.85 (22)
CP250A6	250kcmil	11.25 (286)	1.44 (37)	2.50 (64)	3.62 (92)	.59 (15)	.58 (14)	2.50 (64)	.94 (24)
CP350A6	350kcmil	11.25 (286)	1.62 (41)	2.50 (64)	3.62 (92)	.71 (18)	.68 (17)	2.50 (64)	1.13 (29)
CP500A6	500kcmil	12.38 (314)	1.88 (48)	2.88 (73)	3.62 (92)	.85 (22)	.81 (21)	2.88 (73)	1.33 (34)
CP750A6	750kcmil	12.50 (318)	2.50 (64)	2.88 (73)	3.75 (95)	1.06 (27)	1.00 (25)	2.88 (73)	1.59 (41)



Type A6

Type 5 – Use Copper Cable Protectors Type C5

Type 8 – Use Copper Cable Protectors Type C8

** kcmil = MCM*

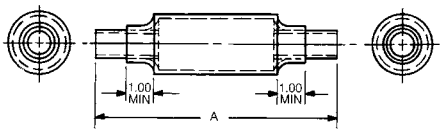
Note: Inside surface of sleeve ends is coated with oxide inhibitor and capped.

For the most current product performance data visit ep.mersen.com and use catalog search.

Copper Cable Protectors with Heat Shrinkable Tubing*

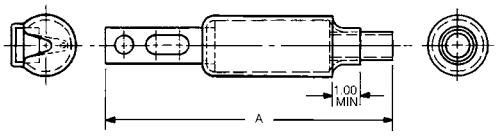
Type C1, Copper Cable – Dimensions

Cable Size	A		Catalog No. Cable Protector With Heat Shrinkable Tubing
	Inches	(mm)	
4/0	7.12	(180)	CP4/0C1-HS
250kcmil	7.38	(188)	CP250C1-HS
350kcmil	7.62	(194)	CP350C1-HS
500kcmil	9.38	(238)	CP500C1-HS
750kcmil	9.51	(242)	CP750C1-HS



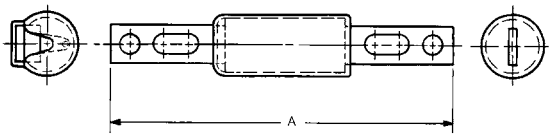
Type C3, Copper Cable – Dimensions

Cable Size	A		Catalog No. Cable Protector With Heat Shrinkable Tubing
	Inches	(mm)	
4/0	8.87	(225)	CP4/0C3-HS
250kcmil	9.00	(229)	CP250C3-HS
350kcmil	9.12	(232)	CP350C3-HS
500kcmil	10.00	(254)	CP500C3-HS
750kcmil	10.13	(257)	CP750C3-HS



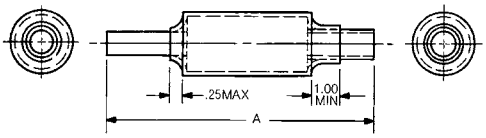
Type C5, Copper Cable – Dimensions

Cable Size	A		Catalog No. Cable Protector ith Heat Shrinkable Tubing
	Inches	(mm)	
4/0	10.37	(263)	CP4/0C5-HS
250kcmil	10.37	(263)	CP250C5-HS
350kcmil	10.37	(263)	CP350C5-HS
500kcmil	10.37	(263)	CP500C5-HS
750kcmil	10.50	(267)	CP750C5-HS



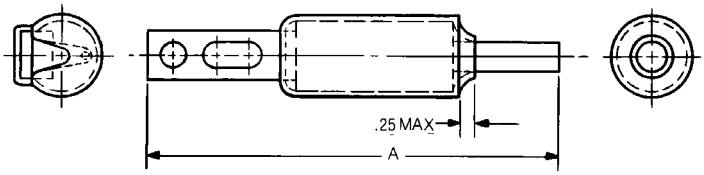
Type C6, Copper Cable – Dimensions

Cable Size	A		Catalog No. Cable Protector With Heat Shrinkable Tubing
	Inches	(mm)	
4/0	7.87	(200)	CP4/0C6-HS
250kcmil	8.00	(203)	CP250C6-HS
350kcmil	8.12	(206)	CP350C6-HS
500kcmil	9.38	(238)	CP500C6-HS
750kcmil	9.51	(242)	CP750C6-HS



Type C8, Copper Cable – Dimensions

Cable Size	A		Catalog No. Cable Protector With Heat Shrinkable Tubing
	Inches	(mm)	
4/0	9.62	(244)	CP4/0C8-HS
250kcmil	9.62	(244)	CP250C8-HS
350kcmil	9.62	(244)	CP350C8-HS
500kcmil	10.00	(254)	CP500C8-HS
750kcmil	10.13	(257)	CP750C8-HS



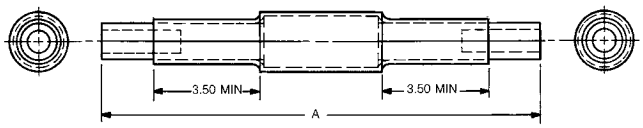
** Transparent heat shrinkable tubing is supplied separately with -HS Catalog No. Maximum curing conditions: 5 seconds at 450˚F.*

CP 600V Cable Protectors

Aluminum Cable Protectors with Heat Shrinkable Tubing*

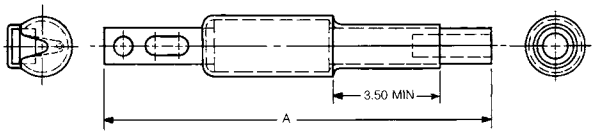
Type A1, Aluminum Cable – Dimensions

Cable Size	A Inches	A (mm)	Catalog No. Cable Protector With Heat Shrinkable Tubing
4/0	13.88	(353)	CP4/0A1-HS
250kcmil	13.88	(353)	CP250A1-HS
350kcmil	13.88	(353)	CP350A1-HS
500kcmil	15.38	(391)	CP500A1-HS
750kcmil	15.50	(394)	CP750A1-HS



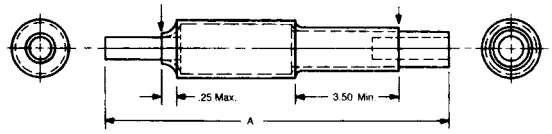
Type A3, Aluminum Cable – Dimensions

Cable Size	A Inches	A (mm)	Catalog No. Cable Protector With Heat Shrinkable Tubing
250kcmil	12.25	(311)	CP250A3-HS
350kcmil	12.25	(311)	CP350A3-HS
4/0	12.25	(311)	CP4/0A3-HS
500kcmil	13.00	(330)	CP500A3-HS
750kcmil	13.12	(333)	CP750A3-HS



Type A6, Aluminum Cable – Dimensions

Cable Size	A Inches	A (mm)	Catalog No. Cable Protector With Heat Shrinkable Tubing
4/0	11.25	(286)	CP4/0A6-HS
250kcmil	11.25	(286)	CP250A6-HS
350kcmil	11.25	(286)	CP350A6-HS
500kcmil	12.38	(314)	CP500A6-HS
750kcmil	12.50	(318)	CP750A6-HS



Type 5 – Use Copper Cable Protectors Type C5

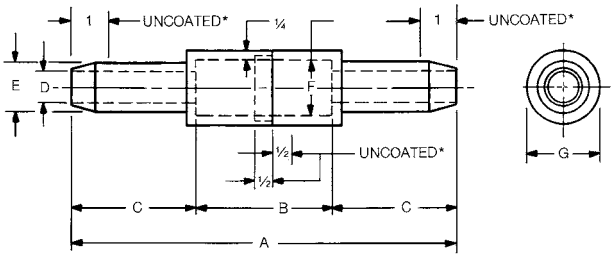
Type 8 – Use Copper Cable Protectors Type C8

* *Transparent heat shrinkable tubing is supplied separately with -HS Catalog Numbers. Maximum curing conditions: 5 seconds at 450˚F.*

Molded Rubber Insulating Sleeves**

For Type C1 Copper Cable Protectors – Dimensions

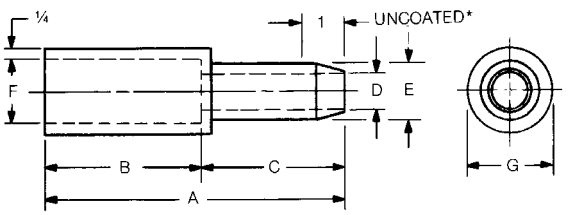
Catalog No.	Cable Size	Dimensions - Inches (mm) A	B	C	D	E	F	G
4/0CCR	4/0	10.44 (265)	3.69 (94)	3.38 (86)	.83 (21)	1.33 (33)	1.50 (38)	2.00 (51)
500CCR	500kcmil	14.19 (360)	3.69 (94)	5.25 (133)	1.31 (33)	1.81 (46)	1.94 (49)	2.44 (62)



INSULATING SLEEVE

For Type C3 Copper Cable Protectors – Dimensions

Catalog No.	Cable Size	Dimensions - Inches (mm) A	B	C	D	E	F	G
4/0CBR	4/0	7.06 (179)	3.69 (94)	3.38 (86)	.83 (21)	1.33 (33)	1.50 (38)	2.00 (51)
500CBR	500kcmil	8.94 (227)	3.69 (94)	5.25 (133)	1.31 (33)	1.81 (46)	1.94 (49)	2.44 (62)



INSULATING SLEEVE

** *Molded rubber insulating sleeves are ordered by their own catalog numbers, and not as suffixes to the cable protector catalog numbers. Neoprene coated except as noted.*

CP 600V Cable Protectors

Mersen Cable Protectors have standard commercial splicing sleeve dimensions. Any crimping tool suitable for standard splicing sleeves, can be used. Follow crimping tool manufacturers instructions. Some crimping tool examples are shown below. It is recommended to use at least 2 crimps.

Cable Protector Splicing Sleve Dimensions

Cable Size (MCM or kcmil)	Copper		Aluminum	
	ID	OD	ID	OD
#2	0.31 (7.87)	0.42 (10.69)	-	-
1/0	0.39 (9.91)	0.52 (13.21)	-	-
2/0	0.44 (11.18)	0.56 (14.22)	-	-
4/0	0.55 (13.97)	0.68 (17.27)	0.54 (13.8)	0.84 (21.5)
250	0.62 (15.75)	0.75 (19.05)	0.59 (15.1)	0.94 (23.7)
350	0.71 (18.03)	0.88 (22.35)	0.71 (18.0)	1.13 (28.7)
400	0.75 (19.05)	0.94 (23.88)	-	-
500	0.82 (20.83)	1.05 (26.67)	0.84 (21. 2)	1.31 (33.3)
600	0.94 (23.88)	1.07 (27.18)	0.92 (23.4)	1.44 (36.6)
750	1.06 (26.92)	1.32 (33.53)	1.03 (26.2)	1.59 (40.4)
1000	1.16 (29.46)	1.50 (38.1)	-	-

Panduit - Copper

Cable Size (MCM or kcmil)	CT-920, CT-920CH, CT-930, CT-930CH, CT-2920	
	Die	Die Color & Die No.
#2	CD-920-2	Brown P33
1/0	CD-920-1/0	Pink P42
2/0	CD-920-2/0	Black P45
4/0	CD-920-4/0	Purple P54
250	CD-920-250*	Yellow P62
350	CD-920-350	Red P71
400	CD-920-400	Blue P76
500	CD-920-500	Brown P87
600	CD-920-600	Green P94
750	CD-920-750	Black P106

** Copper Tap Connector Part Nos: HTCT250-8, HTCT250-2, HTCT250-250*
** Tap Connector Die Part No: CD-930H-250*

Panduit - Aluminum

Cable Size (MCM or kcmil)	CT-920, CT-920CH, CT-930, CT-930CH, CT-2920	
	Die	Die Color & Die No.
#2	CD-920-1/0	Pink P42
1/0	CD-920-3/0**	Tan P50 (Orange P50)
2/0	CD-920-4/0	Olive P54 (Purple 54)
4/0	CD-920-300	White P66
250	CD-920-350	Red P71
350	CD-920-500	Brown P87
400	CD-920-600	Green P94
500	CD-920-500A	Pink P99
600	CD-920-750	Black P106
750	-	-

*** Aluminum Tap Connector Part No: HTAP2-8-L (PANDUIT Die Color & Die No)*

Note: Crimp Tools CT 2940 and CT940H may be used with adapter CD-940-DA

CP 600V Cable Protectors

Thomas & Betts - Copper

Cable Size (MCM or kcmil)	13642M (13400) Hydraulic Head		TBM14 (14 TON) Head		TBM15 (15 TON) Head		Head	
	Die Cat No.	Die Code	Die Cat No.	Die Code	Die Cat No.	Die Code	Die Cat No.	Die Code
#2	11735	33	15528	33	15528	33	11402	33
1/0	11737	42	15508	42	15508	42	11334	42
2/0	11738	45	15526	45	15526	45	11405	45
4/0	11740	54	15511	54	15511	54H	11407	54H
250	11771	62	15510-CK	62	15510-CK	62	297-31669-7	62
350	11743	71H	15514-CK	71H	15514-CK	71H	11363	71
400	11744	76H	15512	76H	15512	76H	11410	76
500	11746-TB	87H	15506	87H	15506	87H	11423	87
600	11748	99H	15536-CK	94H	15536-CK	94H	11364	94
750	-	-	15515-CK	106H	15515-CK	106H	74506	106
1000			-	-	15603	125H	11416	125

Thomas & Betts - Aluminum

Cable Size (MCM or kcmil)	13642M (13400) Hydraulic Head		TBM14 Head		TBM15 Head		21940 (40 TON) Head	
	Die Cat No.	Die Code	Die Cat No.	Die Code	Die Cat No.	Die Code	Die Cat No.	Die Code
4/0	11742	66H	15534	66H	15534	66H	11409	66
250	11744	76H	15512	76H	15512	76H	11410	76
350	11747	94H	15536-CK	94H	15536-CK	94H	11364	94
400	-	-	-	-	-	-	-	-
500	11749	106H	15515-CK	106H	15515-CK	106H	74506	106
600	11751	112H	15504	115H	15609	112H	11426	112
750	-	-	-	-	15602	140H	11418	140

Burndy - Copper

Cable Size (MCM or kcmil)	Burndy Hypress and Die Set			
	Y35	Y39	Y750	Y46*
#2	U2CRT	U2CRT	U2CRT	U2CRT
1/0	U25RT	U25RT	U25RT	U25RT
2/0	U26RT	U26RT	U26RT	U26RT
4/0	U28RT	U28RT	U28RT	U28RT
250	U29RT	U29RT	U29RT	U29RT
350	U31RT	U31RT	U31RT	U31RT
400	U32RT	U32RT	U32RT	U32RT
500	-	U34RT	U34RT	U34RT
600	-	U36RT	U36RT	U36RT
750	-	U39RT	U39RT	U39RT
1000	-	-	-	P44RT**

* Requires PUADP-1 Adapter

** PUADP-1 Adapter not required

Note: Use Burndy Dies with Ilsco ILC-15H crimp tool by installing adapter part no ILD-PADP

Burndy - Aluminum

Cable Size (MCM or kcmil)	Burndy Hypress and Die Set	
	Y35	Y39
#2	-	-
1/0	-	-
2/0	U26ART	U26ART
4/0	U28ART	U28ART
250	U29ART	U29ART
350	U31ART	U31ART
400	U32ART	U32ART
500	-	U34ART
600	-	U36ART
750	-	U39ART-2
1000	-	-

* Requires PUADP-1 Adapter

** PUADP-1 Adapter not required

2CL 250V Cable Protectors

250V Cable Protectors

Mersen 2CL Cable Protectors are special purpose limiters which are crimped or bolted to cables or terminals to clear and isolate faults quickly, increasing the reliability of service entrance and distribution runs. They are 250VAC current limiting with a 200,000A interrupting rating, yet will carry low cable overloads which are handled by standard protective devices. These cable protectors are rated for both copper and aluminum cabling per their corresponding cable size.

Features/Benefits:

- Fiberglass bodies for dimensional stability in harsh environments
- Catalog number stamped into terminal for permanent identification
- 250VAC Rated
- Shorter in length, smaller dimensions than standard 600VAC rated cable limiters



Ratings:

Sizes 1 to 500 kcmil
copper and aluminum
(CC, CF types copper only)

Volts : 250VAC
IR : 200kA I.R. AC

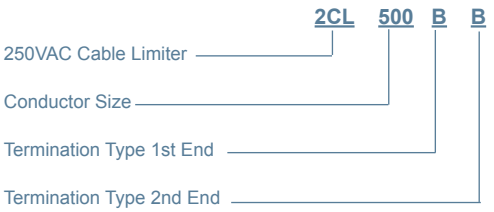
Approvals:

- Self Certified

Catalog Numbers

Type	Termination	Cable Size	Catalog No.
BB	Blade to Blade	1	2CL1BB
		2	2CL2BB
		3	2CL3BB
		4	2CL4BB
		1/0	2CL10BB
		2/0	2CL20BB
		3/0	2CL30BB
		4/0	2CL40BB
		250	2CL250BB
		350	2CL350BB
		500	2CL500BB
BF	Blade to Offset Bus	1	2CL1BF
		2	2CL2BF
		3	2CL3BF
		4	2CL4BF
		1/0	2CL10BF
		2/0	2CL20BF
		3/0	2CL30BF
		4/0	2CL40BF
		250	2CL250BF
		350	2CL350BF
		500	2CL500BF
CC	Cable to Cable	1/0	2CL10CC
		2/0	2CL20CC
		4/0	2CL40CC
		250	2CL250CC
		350	2CL350CC
		500	2CL500CC
CF	Cable to Offset Bus	1/0	2CL10CF
		2/0	2CL20CF
		4/0	2CL40CF
		250	2CL250CF
		350	2CL350CF
		500	2CL500CF

Catalog Numbering System



**Please consult factory for special terminations.*

A60C Low Voltage Capacitor Fuses

600V Low Voltage Capacitor Fuses

Mersen low voltage capacitor fuses provide advanced safety for power correction and harmonic filtering equipment. A capacitor fuse isolates a shorted capacitor before it can damage surrounding equipment or personnel. Typical capacitor failures occur when the internal dielectric can no longer withstand the applied voltage, resulting in a low impedance current path and generating excessive heat and pressure that can cause violent case rupture. Mersen low voltage capacitor fuses will isolate the shorted capacitor before case rupture occurs while routinely withstanding inrush current at startup.



Features/Benefits:

- High interrupting rating
- Current-limiting
- Capacitor inrush withstand capability
- Direct mount
- Optional blown fuse indication

Catalog Numbers (amps)

Without indicator	With indicator
A60C10-121	-
A60C15-121	-
A60C20-121	-
A60C25-121	A60C25-121TI
A60C30-121	-
A60C35-121	A60C35-121TI
A60C40-121	A60C40-121TI
A60C50-121	A60C50-121TI
A60C60-121	A60C60-121TI
-	A60C75-121TI
A60C80-121	A60C80-121TI
A60C100-121	A60C100-121TI
A60C125-121	A60C125-121TI
A60C150-121	A60C150-121TI
A60C175-121	A60C175-121TI
A60C200-121	A60C200-121TI
A60C225-121	A60C225-121TI
A60C250-121	A60C250-121TI
A60C300-121	A60C300-121TI

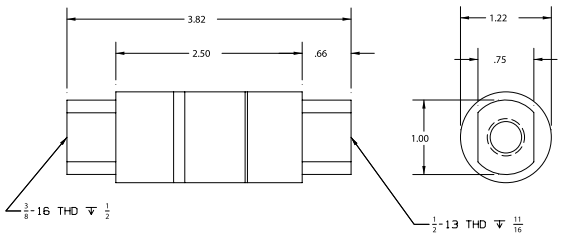
Ratings:

Volts : 600VAC
Amps : 10 to 300A
IR : 200kA I.R.

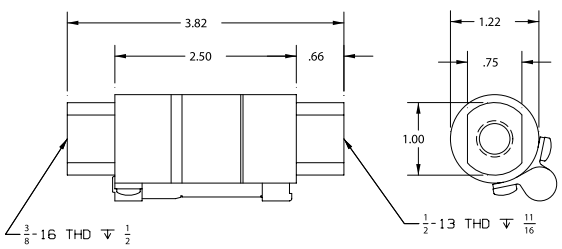
Approvals:

- UL Recognized Component File E60314
- Tested by UL to CSA standard C22.2 No. 248.1

Dimensions



A60C without Indicator



A60C with Indicator

A4BX Welder Protectors

Welder protectors

Mersen Welder Protectors are special purpose limiters used to provide isolation of faulted welding equipment and protection for the cable drop supplying the welder. Welder Protectors have a high thermal capacity and are less affected by high ambient temperatures and extended weld times than similar size Class J, K, or R fuses*. Welder Protectors should only be applied for isolation of short circuited welding circuits. Overload protection must be provided for by other means.

**Contact factory for Class L sizes and ratings.*



Ratings:

Volts : 600VAC
Amps : 100 to 600A
IR : 200kA I.R.

Approvals:

- Self Certified

Catalog Numbers (amps)

Class K Dimension	Class J Dimension
A4BX100-150	-
A4BX125-150	-
A4BX150-150	-
A4BX200-150	A4BX200-150J
A4BX225-150	A4BX225-150J
A4BX300-150	A4BX300-150J
A4BX400-150	A4BX400-150J
A4BX500-150	-
A4BX600-150	-

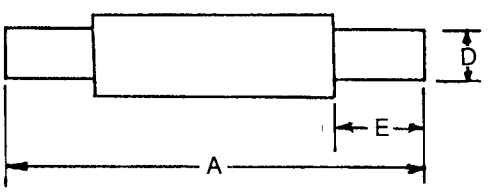
**For larger ratings consult factory.*

A4BX (amps) - 150; Class K Dimensions

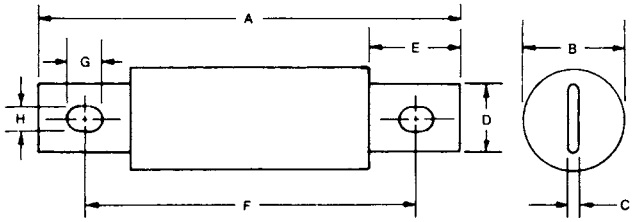
Ampere Rating	Inches							
	A	B	C	D	E	F	G	H
100	7-7/8	1	1/8	23/32	2-5/8	-	-	-
125-200	9-5/8	1-1/2	3/16	1-1/8	3-7/16	-	-	-
225-400	11-5/8	2	1/4	1-5/8	4-7/16	-	-	-
500-600	13-3/8	2-1/2	1/4	2	5-5/16	-	-	-

A4BX (amps) - 150J; Class J Dimensions

200	5-3/4	1-1/2	3/16	1-1/8	1-1/2	4-3/8	3/8	9/32
225-400	7-1/8	2	1/4	1-5/8	2-3/16	5-1/4	17/32	13/32



Class K



Class J

A2Y/A6Y Form 600

Form 600 fuses

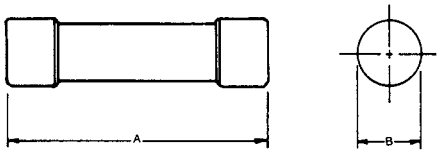
Mersen Form 600 fuses are the original current-limiting fuses, pre-dating all the standards. Their 500V DC rating (through 600A) is a useful feature for special fusing applications. Form 600 fuses provide a high degree of current limitation in AC and DC applications. Types 1 and 3 are dimensionally interchangeable with Class H and K fuses. Types 4 and 5 have unique rejection dimensions and are not interchangeable.

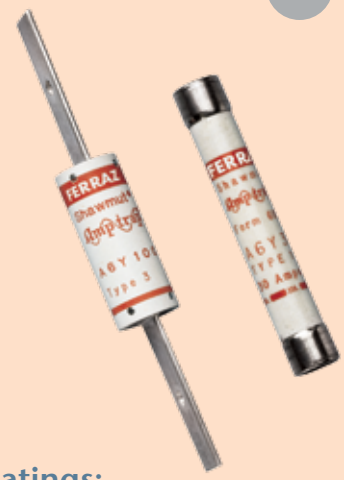
Catalog Numbers (amps)

250V		600V	
A2Y1-1	A2Y200-3	A6Y1-1	A6Y200-3
A2Y2-1	A2Y200-4	A6Y2-1	A6Y200-4
A2Y3-1	-	A6Y3-1	A6Y200-5
A2Y5-1	-	A6Y5-1	A6Y225-3
A2Y6-1	-	A6Y6-1	A6Y225-4
A2Y8-1	-	A6Y8-1	A6Y225-5
A2Y10-1	A2Y250-3	A6Y10-1	A6Y250-3
A2Y15-1	A2Y250-4	A6Y15-1	A6Y250-4
A2Y20-1	-	A6Y20-1	A6Y250-5
A2Y25-1	A2Y300-3	A6Y25-1	A6Y300-3
A2Y30-1	A2Y300-4	A6Y30-1	A6Y300-4
A2Y35-1	-	A6Y35-1	A6Y300-5
A2Y40-1	A2Y350-3	A6Y40-1	A6Y350-3
A2Y45-1	A2Y350-4	A6Y45-1	A6Y350-4
A2Y50-1	A2Y400-3	A6Y50-1	A6Y400-3
A2Y60-1	A2Y400-4	A6Y60-1	A6Y400-4
A2Y70-3	-	A6Y70-3	A6Y400-5
A2Y70-4	A2Y450-3	A6Y70-4	A6Y450-3
A2Y70-5	A2Y450-4	-	A6Y450-4
A2Y80-3	-	A6Y80-3	A6Y450-5
A2Y80-4	A2Y500-3	A6Y80-4	A6Y500-3
A2Y90-3	A2Y500-4	A6Y90-3	A6Y500-4
A2Y90-4	A2Y500-5	-	A6Y500-5
A2Y100-3	A2Y600-3	A6Y100-3	A6Y600-3
A2Y100-4	A2Y600-4	A6Y100-4	A6Y600-4
A2Y125-3	A2Y600-5	A6Y125-3	A6Y600-5
A2Y125-4	-	A6Y125-4	A6Y650-4
-	-	A6Y125-5	A6Y800-4
A2Y150-3	-	A6Y150-3	A6Y800-5
A2Y150-4	-	A6Y150-4	A6Y1000-4
-	-	A6Y150-5	A6Y1000-5
A2Y175-3	-	A6Y175-3	A6Y1200-4
A2Y175-4	-	A6Y175-4	A6Y1200-5
-		A6Y175-5	

Type 1, 1-60 Amperes Class K Dimensions

Ampere Rating	Inches A	Inches B
A2Y - 1-60A		
1-30	2	9/16
35-60	3	13/16
A6Y - 1-60A		
1-30	5	13/16
35-60	5-1/2	1-1/16





Ratings:

A2Y

Volts : 250VAC
: 500VDC
Amps : 1 to 600A
IR : 200kA I.R.AC
: 100kA I.R. DC

A6Y

Volts : 600VAC
: 500VDC
Amps : 1 to 8A (500VAC)
: 10 to 1200A (600VAC)
: 1 to 600A (500VDC)
IR : 200kA I.R. AC
: 100kA I.R. DC

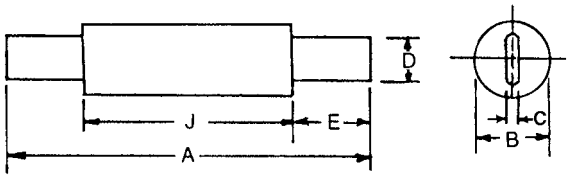
Approvals:

- UL Recognized Component File E60314
- DC Tested to UL248-1 (1-600A)

A2Y/A6Y Form 600

Type 3, 70-600 Amps, Class K Dimensions

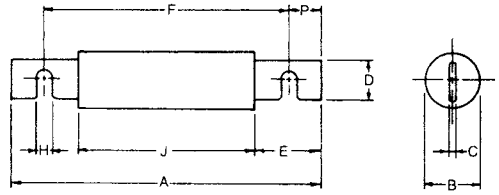
Ampere Rating	Inches					
	A	B	C	D	E	J
250 VAC/500 VDC - A2Y (Amp) - 3						
70-100	5-7/8	1	1/8	23/32	1-5/8	2-21/32
125-200	7-1/8	1-1/2	3/16	1-1/8	2-3/16	2-25/32
225-400	8-5/8	2	1/4	1-5/8	2-15/16	2-25/32
450-600	10-3/8	2-1/2	1/4	2	3-13/16	2-25/32
600 VAC/500 VDC - A6Y (Amp) - 3						
70-100	7-7/8	1	1/8	23/32	2-5/8	2-21/32
110-200	9-5/8	1-1/2	3/16	1-1/8	3-7/16	2-25/32
225-400	11-5/8	2	1/4	1-5/8	4-7/16	2-25/32
450-600	13-3/8	2-1/2	1/4	2	5-5/16	2-25/32



Type 3 70-600A

Type 4, 70-600 Amps – Dimensions

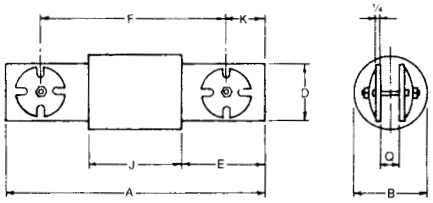
Ampere Rating	Inches								
	A	B	C	D	E	F	H	J	P
250 VAC/500 VDC - A2Y (Amp) - 4									
70-100	5-7/8	1	1/8	23/32	1-5/8	4-7/8	13/64	2-21/32	1/2
125-200	7-1/8	1-1/2	3/16	1-1/8	2-3/16	5-3/4	17/64	2-25/32	11/16
225-400	8-5/8	2	1/4	1-5/8	2-15/16	6-3/4	21/64	2-25/32	15/16
450-600	10-3/8	2-1/2	1/4	2	3-13/16	8-1/8	25/64	2-25/32	1-1/8
600 VAC/500 VDC - A6Y (Amp) - 4									
70-100	7-7/8	1	1/8	23/32	2-5/8	6-7/8	13/64	2-21/32	1/2
125-200	9-5/8	1-1/2	3/16	1-1/8	3-7/16	8-1/4	17/64	2-25/32	11/16
225-400	11-5/8	2	1/4	1-5/8	4-7/16	9-3/4	21/64	2-25/32	15/16
450-600	13-3/8	2-1/2	1/4	2	5-5/16	11-1/8	25/64	2-25/32	1-1/8



Type 4 70-600A

Type 4, 650-1200 Amps – Dimensions

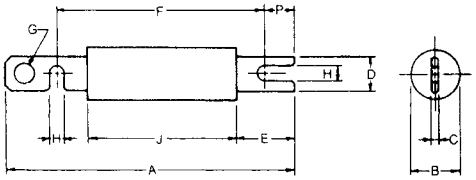
Ampere Rating	Inches							
	A	B	D	E	F	J	K	Q
600 VAC only - A6Y (Amp) - 4								
650-1200	10-1/2	3	2	3-3/8	7-7/8	3-3/4	1-5/16	5/8



Type 4 650-1200A

Type 5, 125-600 Amps – Dimensions

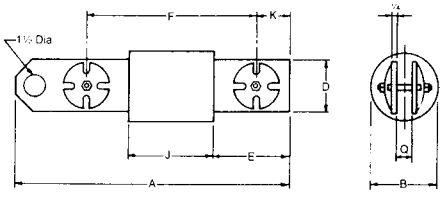
Ampere Rating	Inches									
	A	B	C	D	E	F	G	H	J	P
600 VAC/500 VDC - A6Y (Amp) - 5										
125-200	10-3/4	1-1/2	3/16	1-1/8	3-7/16	8-1/4	3/4	17/64	2-25/32	11/16
225-400	13-1/4	2	1/4	1-5/8	4-7/16	9-3/4	7/8	21/64	2-25/32	15/16
450-600	15-3/16	2-1/2	1/4	2	5-5/16	11-1/8	1	25/64	2-25/32	1



Type 5 125-600A

Type 5, 650-1200 Amps – Dimensions

Ampere Rating	Inches							
	A	B	D	E	F	J	K	Q
600 VAC only - A6Y (Amp) - 5								
650-1200	12-1/8	3	2	3-3/8	7-7/8	3-3/4	1-5/16	5/8



Type 5 650-1200A

Forklift Truck Fuses

Mersen Forklift Truck and Battery Isolator fuses are specially designed for the heavy duty loads associated with DC battery powered equipment such as forklift trucks, hand trucks, motorized work platforms, and other DC battery operated systems. Rugged construction and stud mounted bolt-in design assure a long life in adverse conditions for these fuses. This expanded line of Forklift Truck Fuses can fulfill virtually all of your heavy duty circuit protection needs up to 125V AC or DC. The round body ACK, ACL and ALS fuses combine higher voltage ratings and more ampere ratings with higher interrupting ratings. The flat CNL and CNN style fuses have a lower voltage rating but are also AC and DC, more space saving and have visual “see-thru” indication to show when they have operated.

Features/Benefits:

- All fuses are AC and DC rated
- Expanded ampere ratings
- Time-delay and general purpose types
- Link is visible through window (CNL/CNN)

Highlights:

- AC/DC ratings
- Embossed catalog No’s.
- Stud mounted
- Time-delay - ACK
- General purpose - ACL,ALS

Applications:

- Forklift trucks
- Battery hand trucks
- Motorized work platforms
- Battery systems

Recommended Fuse Blocks for Forklift Truck Fuse Fuses

Fuse	Fuse Block
ACK(70-100)	P243C
ACL(70-120)	P243E
CNL	FTFH, FTFH-1
CNN	FTFH, FTFH-1



Ratings:

ACK:
Volts : 125VAC / DC
Amps : 1 to 400A
IR : 10kA I.R. AC / DC

ACL
Volts : 125VAC / DC
Amps : 30 to 120A
IR : 100kA I.R. AC
: 10kA I.R. DC

ALS
Volts : 125VAC / DC
Amps : 100 to 500A
IR : 10kA I.R. AC / DC

CNL
Volts : 80V AC / DC
Amps : 35 to 500A
IR : 2.5kA I.R. AC / DC

CNN
Volts : 130V AC
Amps : 10-800A

Volts : 75V DC
Amps : 10 to 300A

Volts : 48V DC
Amps : 301-800A
IR : 2.5kA I.R. AC / DC

Approvals:

- UL recognized components (All Products) File E60314

Forklift Truck Fuses

Catalog Numbers (amps)

ACK Fuse

ACK1	ACK20	ACK70	ACK160
ACK2	ACK25	ACK80	ACK175
ACK3	ACK30	ACK90	ACK200
ACK5	ACK35	ACK100	ACK225
ACK6	ACK40	ACK120	ACK250
ACK10	ACK50	ACK140	ACK300
ACK15	ACK60	ACK150	ACK400

ACL Fuse

ACL30	ACL70
ACL35	ACL80
ACL40	ACL90
ACL50	ACL100
ACL60	ACL120

ALS Fuse

ALS100	ALS300
ALS150	ALS350
ALS175	ALS400
ALS200	ALS450
ALS225	ALS500
ALS250	–

CNL/CNN:

CNN			CNL		
CNN10	–	CNN350	–	CNL130	CNL350
CNN35	CNN150	CNN400	CNL35	CNL150	CNL400
CNN40	CNN175	CNN500	CNL40	CNL175	CNL500
CNN50	CNN200	CNN600	CNL50	CNL200	CNL600
CNN60	CNN225	CNN225	CNL60	CNL225	CNL675
CNN80	CNN250	-	CNL80	CNL250	-
CNN90	CNN275	CNN700	–	CNL275	CNL750
CNN100	CNN300	-	CNL100	CNL300	-
CNN125	CNN325	CNN800	CNL125	CNL325	-

Dimensions

Catalog No.	Outline Figure	A In. (mm)	B In. (mm)	C In. (mm)	D In. (mm)	E In. (mm)	F In. (mm)	G In. (mm)
ACK 1-30	1	3.07 (77.9)	2.5 (63.5)	.56 (14.3)	.5 (12.7)	.28 (7.1)	.593 (15)	.03 (.8)
ACK 35-60	1	3.74 (95)	3 (76.2)	.81 (20.6)	.75 (19.1)	.34 (8.7)	.86 (21.8)	.047 (1.2)
ACK 70-100	1	4.46 (113.4)	3.5 (88.9)	1.06 (26.9)	1 (25.4)	.38 (9.5)	1.12 (28.5)	.06 (1.6)
ACK 120-200	1	4.72 (119.8)	3.75 (95.4)	1.06 (26.9)	1 (25.4)	.38 (9.5)	1.12 (28.5)	.06 (1.6)
ACK 225-400	1	4.71 (119.7)	3.75 (95.4)	1.06 (26.9)	1 (25.4)	.38 (9.5)	1.12 (28.5)	.06 (1.6)
ACL 30-60	1	3.07 (77.9)	2.5 (63.5)	.56 (14.3)	.5 (12.7)	.28 (7.1)	.593 (15)	.03 (.8)
ACL 70-120	1	3.49 (88.6)	2.75 (69.9)	.81 (20.6)	.75 (19.1)	.34 (8.7)	.86 (21.8)	.047 (1.2)
ALS 100-500	1	4.71 (119.7)	3.75 (95.4)	1.06 (26.9)	1 (25.4)	.38 (9.5)	1.12 (28.5)	.06 (1.6)
CNL/CNN	2	3.188 (80.9)	2.44 (61.9)	.89 (22.6)	.75 (19.0)	.34 (8.7)	—	—

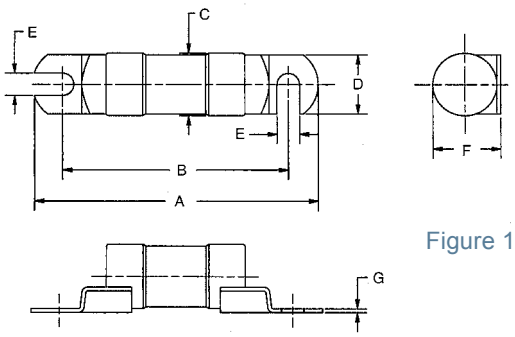


Figure 1

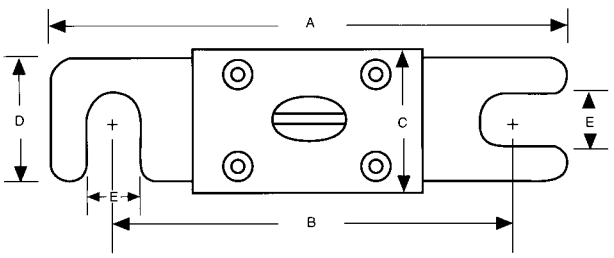


Figure 2

440V DC Ferrule Fuses

Sizes: 14x51, 22x58, 27x60

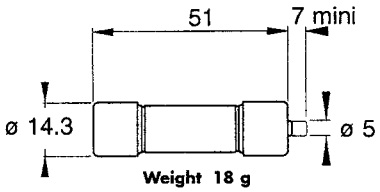
gLB from 2 to 160 A

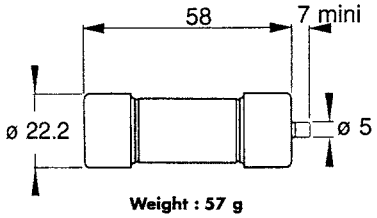


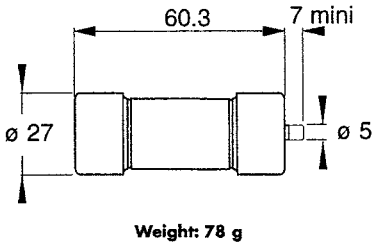
Ratings:

Volts : 440VDC
Amps : 2 to 160A
IR : 100kA I.R.
L/R : 30mSec

Dimensions







Trip force: 4.5N (1lb) at 0 mm-2.5N (1/2lb) at 7 mm (1/4")

Catalog Numbers, Ratings

Size	Current Rating I_N(A)	Interrupting I_N(A)	Watts Loss 0.8 IN	Watts Loss IN	Catalog Number	Ref. No.
14x51	2	@ 440VDC 100 kA L/R = 30 ms	0.29	0.5	CC 4.421 CP gLB 14x51/2	E075720
	6		0.74	1.3	CC 4.421 CP gLB 14x51/6	Q094084
	8		1.1	1.8	CC 4.421 CP gLB 14x51/8	F075721
	10		1.1	1.9	CC 4.421 CP gLB 14x51/10	G075722
	12		1.2	2.0	CC 4.421 CP gLB 14x51/12	R094085
	16		1.2	2.1	CC 4.421 CP gLB 14x51/16	H075723
	20		1.4	2.5	CC 4.421 CP gLB 14x51/20	L221132
	25		1.6	2.8	CC 4.421 CP gLB 14x51/25	J075724
	32		2.4	4.2	CC 4.421 CP gLB 14x51/32	S098410
	40		2.9	5.0	CC 4.421 CP gLB 14x51/40	T098687
	50		3.3	5.7	CC 4.421 CP gLB 14x51/50	H076620
22x58	50	@ 440VDC 100 kA L/R = 30 ms	3.9	6.7	CC 4.421 CP gLB 22x58/50	L076968
	63		4.9	8.5	CC 4.421 CP gLB 22x58/63	M221133
	80		6.2	10.8	CC 4.421 CP gLB 22x58/80	J098563
	100		7.5	13.2	CC 4.421 CP gLB 22x58/100	K099507
27x60	125	@440VDC 100 kA L/R = 30 ms	12.6	22	CC 4.421 CP gLB 27x60/125	H098562
	160		13.8	24.2	CC 4.421 CP gLB 27x60/160	M075704

Blown fuse indicator minimum trip voltage: 20 V

660V DC Ferrule Fuses

Size: 27x60

Features/Benefits:

- Full range D.C. operation
- 27x60mm ceramic cylindrical body
- Blown-fuse indicator striker



Ratings:

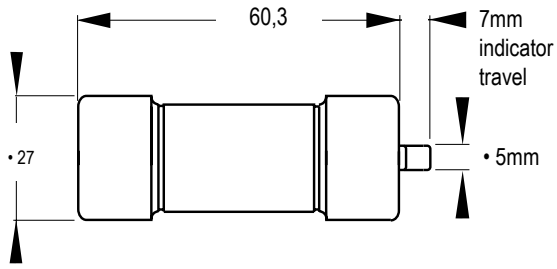
Volts : 660VDC
Amps : 0.8 to 110A
IR : 50kA I.R.
L/R : 15mSec

Catalog Numbers, Ratings

Size (Mm)	Current Rating I_N(A)	Interrupting Rating	Watts Loss 0.8 I_N	Watts Loss I_N	Catalog No.	Ref. No.
27 x 60	0.8	@ 660V DC 50kA L/R = 15ms	0.25	0.4	CC 6,621 CP gRB 27x60/0.8	H098585
	1		0.25	0.4	CC 6,621 CP gRB 27x60/1	J098586
	1.5		0.35	0.6	CC 6,621 CP gRB 27x60/1.5	K098587
	2		0.4	0.7	CC 6,621 CP gRB 27x60/2	P098591
	3.15		0.6	1	CC 6,621 CP gRB 27x60/3.15	Q098592
	4		0.6	1	CC 6,621 CP gRB 27x60/4	R098593
	5		0.7	1.1	CC 6,621 CP gRB 27x60/5	T098595
	6.3		0.8	1.3	CC 6,621 CP gRB 27x60/6.3	Z098600
	8		1.2	2	CC 6,621 CP gRB 27x60/8	L076301
	10		1.3	2.3	CC 6,621 CP gRB 27x60/10	M076302
	12		1.4	2.4	CC 6,621 CP gRB 27x60/12	L075703
	16		1.9	3.3	CC 6,621 CP gRB 27x60/16	N076303
	20		2.4	4.1	CC 6,621 CP gRB 27x60/20	C077006
	25		2.8	4.7	CC 6,621 CP gRB 27x60/25	M075635
	32		3.5	6	CC 6,621 CP gRB 27x60/32	P076304
	40		4.7	8	CC 6,621 CP gRB 27x60/40	Q076305
	50		4.8	8.3	CC 6,621 CP gRB 27x60/50	R076306
	63		5.6	9.6	CC 6,621 CP gRB 27x60/63	P079961
	80		6.4	11.2	CC 6,621 CP gRB 27x60/80	S079964
	100		7.4	12.9	CC 6,621 CP gRB 27x60/100	T099400
	110		7.7	13.7	CC 6,621 CP gRB 27x60/110	S076307

Blown fuse indicator minimum trip voltage: 20V

Dimensions



Indicator Trip Force: 4.5N (1lb) at 0mm-2.5N (1/2lb) at 7mm (1/4")

1000V DC Ferrule Fuses

Size: 20x127



Features/Benefits:

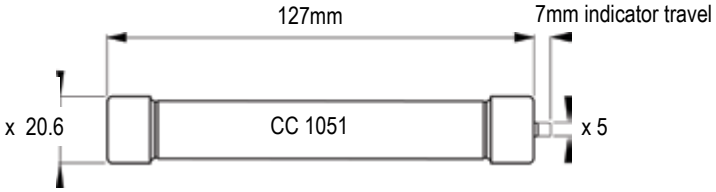
- Full range D.C. operation
- 20x127mm ceramic cylindrical body
- Blown-fuse indicator striker

Catalog Numbers, Ratings

Size (Mm)	Current Rating I_N(A)	Interrupting Rating	Watts Loss 0.8 I_N	Watts Loss I_N	Catalog Number New	Catalog Number Old	Ref. No.
	6		2.0	3.5	CC 1051 CP gRB 20x127/6	D 100 gRB 006 VI	Z088020
	8		2.2	3.8	CC 1051 CP gRB 20x127/8	D 100 gRB 008 VI	T088774
	10		2.4	4.2	CC 1051 CP gRB 20x127/10	D 100 gRB 010 VI	A089493
	12		3.0	5.3	CC 1051 CP gRB 20x127/12	D 100 gRB 012 VI	B089494
20	16	@ 1000V DC	3.7	6.6	CC 1051 CP gRB 20x127/16	D 100 gRB 016 VI	C089495
x	20	100kA	4.4	7.7	CC 1051 CP gRB 20x127/20	D 100 gRB 020 VI	D089496
127	25	L/R = 20ms	5.1	9	CC 1051 CP gRB 20x127/25	D 100 gRB 025 VI	E089497
	32		6.0	10.5	CC 1051 CP gRB 20x127/32	D 100 gRB 032 VI	F089498
	40		7.3	13.2	CC 1051 CP gRC 20x127/40	D 100 gRB 040 VI	S086795
	50		8.5	15.5	CC 1051 CP gRC 20x127/50	D 100 gRB 050 VI	F086186
	63		9.6	17.4	CC 1051 CP gRC 20x127/63	D 100 gRB 063 VI	F083656

Blown fuse indicator minimum trip voltage: 50 V
•Use R.M.S. current less than 56 A when mounting in fuse holder.

Dimensions



Indicator Trip Force: 4.5N (1lb) at 0mm-2.5N (1/2lb) at 7mm (1/4")

Ratings:

Volts : 1000VDC
Amps : 6 to 63A
IR : 100kA I.R.
L/R : 20mSec

Max. AC Voltage
(50/60Hz)
1500V@100kA I.R.

Approvals:

- UL recognized component File E76491

1000V DC Ferrule Fuses

Size 36x127

gRB-gRC from 25 to 100 A



Features/Benefits:

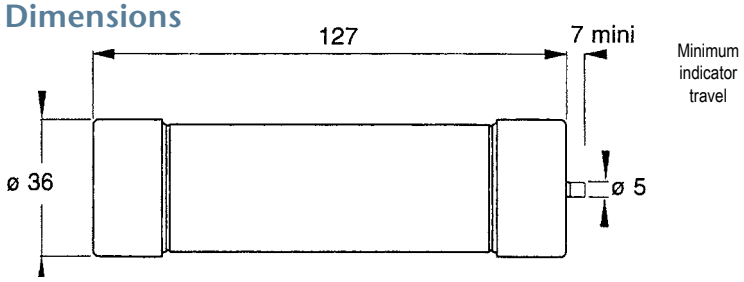
- Full range D.C. operation
- 36x127mm ceramic cylindrical body
- Blown-fuse indicator striker

Catalog Numbers, Ratings

Size (Mm)	Current Rating I_N(A)	Interrupting Rating	Watts Loss 0.8 I_N	Watts Loss I_N	Catalog Number New	Catalog Number Old	Ref. No.
36 x 127	25	@ 1000V DC 100kA L/R = 20ms	5.3	9.4	CC 1051 CP gRB 36x127/25	D 100 gRB 006 VI	H083980
	32		6.4	11.5	CC 1051 CP gRB 36x127/32	D 100 gRB 008 VI	R086495
	40		6.5	11.6	CC 1051 CP gRB 36x127/40	D 100 gRB 010 V I	G089499
						D 100 gRB 012 VI	
	50		8.7	15.4	CC 1051 CP gRB 36x127/50	D 100 gRB 016 VI	H089500
	63		10.5	18.8	CC 1051 CP gRC 36x127/63	D 100 gRB 020 VI	J089501
	80		11.9	21.5	CC 1051 CP gRC 36x127/80	D 100 gRB 025 VI	A083651
	100		13.2	24.1	CC 1051 CP gRC 36x127/100	D 100 gRB 032 VI	Z083650

Blown fuse indicator minimum trip voltage: 50 V

Dimensions



Trip force: 4.5N (1lb) at 0 mm - 2.5N (1/2) at 7 mm

Ratings:

Volts : 1000VDC
Amps : 25 to 100A
IR : 100kA I.R.
L/R : 20mSec

Max AC Voltage
(50/60Hz)
1500V @100k A I.R.

1500V DC Ferrule Fuses

Size: 20x127

Features/Benefits:

- Blown fuse indicator striker .8 to 5A
- 20x127mm ceramic cylindrical body
- Full range D.C. operation



Ratings:

CC 1551 CP gRB

Volts : 1500VDC
Amps : 0.8 to 5A
IR : 100kA I.R. DC
L/R : 100mSec

CC 1500 CP gRB

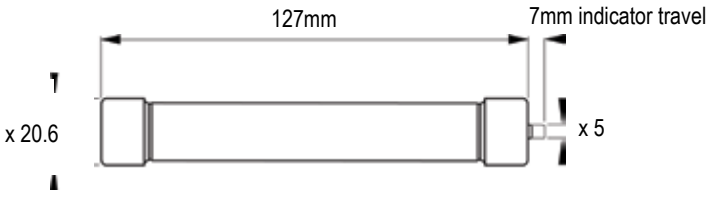
Volts : 1500VDC
Amps : 0.8 to 25 Amps
IR : 30kA I.R. DC
L/R : 30mSec (.8 to 5A)
L/R : 55mSec (6 to 25A)
Max AC Voltage (50/60Hz)
2500@50k A.I.R.

Catalog Numbers, Ratings

Size (Mm)	Current Rating I_N(A)	Interrupting Rating	Watts Loss 0.8 I_N	Watts Loss I_N	Catalog Number New	Catalog Number Old	Ref. No.
	0.8		0.5	0.9	CC 1551 CP gRB 20x127/0.8	D 150 gRB 0.8 VI	E075743
	1	@ 1500V DC	0.5	0.9	CC 1551 CP gRB 20x127/1	D 150 gRB 001 VI	F075744
	1.5	30kA	0.8	1.4	CC 1551 CP gRB 20x127/1.5	D 150 gRB 01.5 VI	G075745
	2	L/R = 30ms	0.9	1.6	CC 1551 CP gRB 20x127/2	D 150 gRB 002 VI	B088367
	3.15		1.2	2.1	CC 1551 CP gRB 20x127/3.15	D 150 gRB 3.15 VI	H075746
	4	@ 1500V DC	1.3	2.1	CC 1551 CP gRB 20x127/4	D 150 gRB 004 VI	J075747
	5	100kA	1.4	2.3	CC 1551 CP gRB 20x127/5	D 150 gRB 005 VI	C088368
	0.8	L/R = 3.4ms	0.5	0.9	CC 1500 CP gRB 20x127/0.8	D 150 gRB 0.8 V	J081842
	1		0.5	0.9	CC 1500 CP gRB 20x127/1	D 150 gRB 001 V	R079894
20	1.5	@ 1000V DC	0.8	1.4	CC 1500 CP gRB 20x127/1.5	D 150 gRB 01.5 V	K081843
x	2	100kA	0.9	1.6	CC 1500 CP gRB 20x127/2	D 150 gRB 002 V	Y099243
127	3.15	L/R = 100ms	1.2	2.1	CC 1500 CP gRB 20x127/3.15	D 150 gRB 3.15 V	L081844
	4		1.3	2.1	CC 1500 CP gRB 20x127/4	D 150 gRB 004 V	Z099244
	5		1.4	2.3	CC 1500 CP gRB 20x127/5	D 150 gRB 005 V	A099245
	6		3.4	6.3	CC 1500 CP gRD 20x127/6	D 150 gRB 006 V	E082804
	8		3.3	6.0	CC 1500 CP gRD 20x127/8	D 150 gRB 008 V	Z080867
	10	@ 1500V DC	3.5	6.1	CC 1500 CP gRD 20x127/10	D 150 gRB 010 V	F081655
	12	30kA	3.9	6.8	CC 1500 CP gRD 20x12712	D 150 gRB 012 V	B080593
	16	L/R = 55ms	5	8.9	CC 1500 CP gRD 20x127/16	D 150 gRB 016 V	Q081457
	20		5.3	9.6	CC 1500 CP gRD 20x127/20	D 150 gRB 020 V	D082803
	25		6.6	12	CC 1500 CP gRD 20x127/25	D 150 gRB 025 V	A080431

Blown fuse indicator minimum trip voltage: 50 V

Dimensions



Indicator Trip Force: 4.5N (1lb) at 0mm-2.5N (1/2lb) at 7mm (1/4")

1500V DC Ferrule Fuses

Size: 20x190



Features/Benefits:

- Blown-fuse indicator striker
  CC 159I CP gRC
- 20x190 ceramic cylindrical body
- Full range D.C. operation
- CC 1500, without indicator

Ratings:

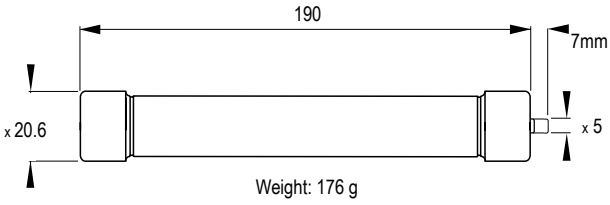
Volts : 1500VDC
Amps : 6 to 32A
IR : 60kA I.R. DC
L/R : 40mSec

Max AC Voltage (50/60 Hz)
3000V @ 50k A I.R.

Catalog Numbers, Ratings

Size	Current Rating I_N(A)	Interrupting I_N(A)	Watts Loss 0.8 I_N	Watts Loss I_N	Catalog Number	Ref. No.
20 x 190	6	@ 1500V DC 60kA L/R = 40ms	4.8	7.8	CC 1591 CP gRC 20x190/6	D083102
	8		5.3	8.8	CC 1591 CP gRC 20x190/8	V083738
	10		6.5	10.5	CC 1591 CP gRC 20x190/10	G087245
	12		7.0	11.5	CC 1591 CP gRC 20x190/12	Y080429
	16		8.0	13	CC 1591 CP gRC 20x190/16	N088378
	20		9.5	15	CC 1591 CP gRC 20x190/20	Q087345
	25		12	19.5	CC 1591 CP gRC 20x190/25	Z080430
	32		16	26	CC 1591 CP gRC 20x190/32	G085911
	6		4.8	7.8	CC 1500 CP gRC 20x190/6	Z089469
	8		5.3	8.8	CC 1500 CP gRC 20x190/8	A089470
	10		6.5	10.5	CC 1500 CP gRC 20x190/10	B089471
	12		7.0	11.5	CC 1500 CP gRC 20x190/12	C089472
	16		8.0	13	CC 1500 CP gRC 20x190/16	D089473
	20		9.5	15	CC 1500 CP gRC 20x190/20	E089474
	25		12	19.5	CC 1500 CP gRC 20x190/25	F089475
	32		16	26	CC 1500 CP gRC 20x190/32	G089476

Dimensions



Indicator Trip Force: 4.5N (1lb) at 0mm - 2.5N (1/2lb) at 7mm (1/4") - when so equipped*

1500V DC Ferrule Fuses

Size 36x190

gRC-gRD from 40 to 100 A



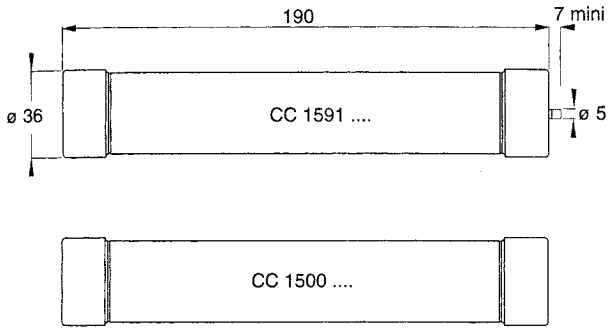
Features/Benefits:

- Full range D.C. operation
- 36x190mm ceramic cylindrical body
- CC 1591, with indicator
- CC 1500, without indicator

Catalog Numbers, Ratings

Size	Current Rating I_N(A)	Interrupting I_N(A)	Watts Loss 0.8 I_N	Watts Loss I_N	Catalog Number	Ref. No.
36 x 190	40	@ 1500 VDC 60kA L/R = 60 ms	14	26	CC 1591 CP gRC 36x190/40	M080419
	50		16.5	30	CC 1591 CP gRC 36x190/50	N080420
	63		20.6	38	CC 1591 CP gRC 36x190/63	P080421
	80		18	33	CC 1591 CP gRD 36x190/80	N221134
	100		23	42	CC 1591 CP gRD 36x190/100	Y220154
	40	@ 1500 VDC 60kA L/R = 30 ms	14	26	CC 1500 CP gRC 36x190/40	H089477
	50		16.5	30	CC 1500 CP gRC 36x190/50	J089478
	63		20.6	38	CC 1500 CP gRC 36x190/63	K089479
	80		18	33	CC 1500 CP gRD 36x190/80	Q078007
	100		23	42	CC 1500 CP gRD 36x190/100	K078025

Dimensions



Trip Force: 4.5N (1lb) at 0 mm-2.5N (1/2lb) at 7mm (1/4") when so equipped

Rating:

Volts : 1500VDC
Amps : 40 to 100A
IR : 60kA I.R. DC

Max AC Voltage (50/60 Hz) 3000V @ 50k A I.R.
CC1591 : L/R=60mSec
CC1500 : L/R=30mSec

4000V DC Ferrule Fuses

Size 36x400

gRC from 0.8 to 20 A

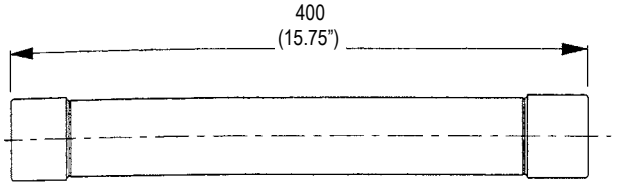
Features/Benefits:

- Full range D.C. operation
- 36x400mm ceramic cylindrical body

Catalog Numbers, Ratings

Size	Current Rating I_N(A)	Interrupting I_N(A)	Watts Loss 0.8 I_N	Watts Loss I_N	Catalog Number	Ref. No.
	.08		1.5	2.5	CC 4000 CP gRC 36x400/0.8	Z220293
	1		1.6	2.7	CC 4000 CP gRC 36x400/1	R221137
	1.5		2.4	14.1	CC 4000 CP gRC 36x400/1.5	S221138
	2		3.0	5.0	CC 4000 CP gRC 36x400/2	Z089423
	3.15		3.9	6.4	CC 4000 CP gRC 36x400/3.15	T221139
36	4	@ 4000 V DC	6.0	10	CC 4000 CP gRC 36x400/4	A089424
x	5	30kA	9.6	16	CC 4000 CP gRC 36x400/5	Y098461
400	6	L/R = 20 ms	11	19	CC 4000 CP gRC 36x400/6	E099847
	8		12	22	CC 4000 CP gRC 36x400/8	V221140
	10		13	23	CC 4000 CP gRC 36x400/10	G098469
	12		15	26	CC 4000 CP gRC 36x400/12	C098396
	16		15	27	CC 4000 CP gRC 36x400/16	Z083052
	20		18.6	33	CC 4000 CP gRC 36x400/20	F099848

Dimensions





Ratings:

Volts : 4000VDC
Amps : .8 to 20A
IR : 30kA I.R. DC
L/R : 20mSec

4000VAC @ 50kA I.R.

750V DC Square Body Fuses

Size: 120



Features/Benefits:

- Blown-fuse indicator
- Square ceramic body
- Full range D.C. operation
- Bladed and tapped versions standard

Ratings:

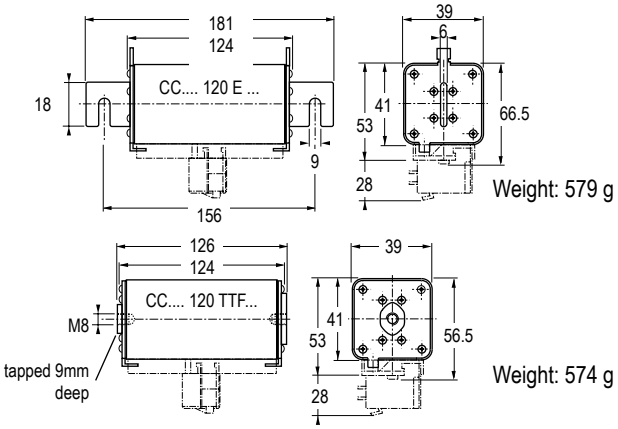
Volts : 750VDC
: 900VDC
Amps : 50 to 160A
IR : 100kA I.R. DC
L/R : 100mSec (750)
L/R : 40mSec (900)

Catalog Numbers, Ratings

Size	Current Rating I_N(A)	Interrupting I_N(A)	Maximum I^2t @900V=L/R 40ms		Watts Loss		Catalog Number	Ref. No.
			Ip=101$_N$	Ip=501$_N$	0.8 I_N	I_N		
120	50	@ 750V= 100kA L/R = 100ms	4.4	8.1	4.4	8.1	CC 7,5 gRC 120 EF 0050	Y084776
	63		5.7	10.4	5.7	10.4	CC 7,5 gRC 120 EF 0063	R085207
	80		7.3	13.4	7.3	13.4	CC 7,5 gRC 120 EF 0080	Q085206
	100		9.1	16.7	9.1	16.7	CC 7,5 gRC 120 EF 0100	P085205
	125		11.5	21	11.5	21	CC 7,5 gRC 120 EF 0125	R086242
	160		15	27	15	27	CC 7,5 gRC 120 EF 0160	N085204
	50	@ 900 V= 100kA L/R = 40ms	4.4	8.1	4.4	8.1	CC 7,5 gRC 120 TTF 0050	B220824
	63		5.7	10.4	5.7	10.4	CC 7,5 gRC 120 TTF 0063	Q082400
	80		7.3	13.4	7.3	13.4	CC 7,5 gRC 120 TTF 0080	Z090435
	100		9.1	16.7	9.1	16.7	CC 7,5 gRC 120 TTF 0100	R082401
	125		11.5	21	11.5	21	CC 7,5 gRC 120 TTF 0125	P085251
	160		15	27	15	27	CC 7,5 gRC 120 TTF 0160	R085253

Microswitch: MC 3E 1-5N Ref. Number: D310020
Contact factory for holder

Dimensions



750V DC Square Body Fuses

Size: 121



Features/Benefits:

- Blown-fuse indicator
- Square ceramic body
- Full range D.C. operation
- Bladed and tapped versions standard

Catalog Numbers, Ratings

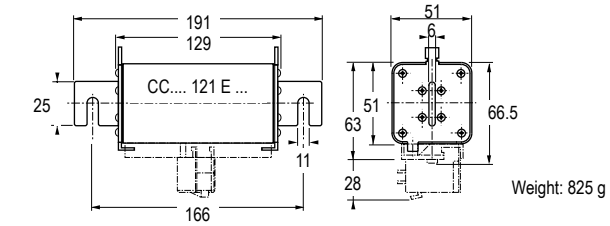
Size	Current Rating I_N(A)	Interrupting I_N(A)	Maximum I^2t @900V=L/R 40ms		Watts Loss		Catalog Number	Ref. No.
			Ip=101$_N$	Ip=501$_N$	0.8 I_N	I_N		
121	200	@ 750V DC	755000	150000	20.5	37.5	CC 7,5 gRC 121 EF 0200	A086710
	250	100kA L/R = 100ms	1250000	250000	25.5	46.7	CC 7,5 gRC 121 EF 0250	M085203
	200	@900V DC	755000	150000	20.5	37.5	CC 7,5 gRC 121 TTF 0200	N085250
	250	100kAL/R = 40ms	1250000	250000	25.5	46.7	CC 7,5 gRC 121 TTF 0250	Q085252

Microswitch: MC 3E 1-5N Ref. Number: D310020
Contact factory for holder

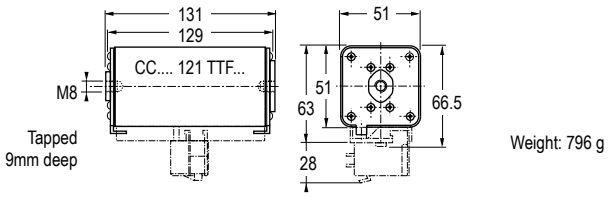
Ratings:

Volts : 750VDC
: 900VDC
Amps : 200 & 250A
IR : 100kA I.R.
L/R : 100mSec (750V)
L/R : 40mSec (900V)

Dimensions



Weight: 825 g



Weight: 796 g

750V DC Square Body Fuses

Size: 122

Features/Benefits:

- Blown-fuse indicator
- Square ceramic body
- Full range D.C. operation
- Bladed and tapped versions standard



Ratings:

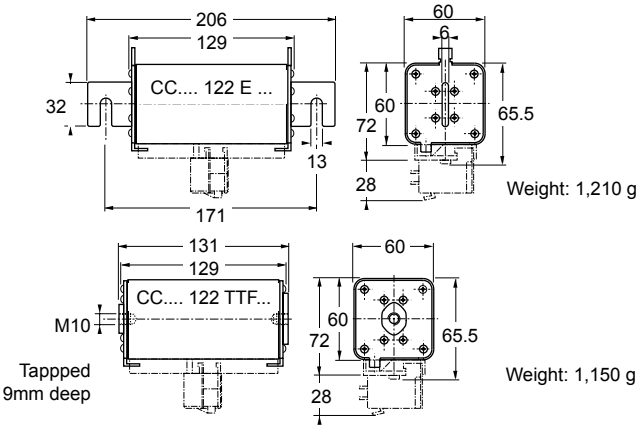
Volts : 750VDC
: 900VDC
Amps : 250 to 500A
IR : 100kA I.R. DC
L/R : 100mSec (750V)
L/R : 40mSec (900V)

Catalog Numbers, Ratings

Size	Current Rating I_N(A)	Interrupting I_N(A)	Maximum I^2t @900V=L/R 40ms		Watts Loss		Catalog Number	Ref. No.
			Ip=101$_N$	Ip=501$_N$	0.8 I_N	I_N		
122	250	@ 750V= 100kA L/R = 100ms	1.25x10^6	250,000	25.5	46.7	CC 7,5 gRC 122 EF 0250	A087331
	315		2x10^6	400,000	31.5	58	CC 7,5 gRC 122 EF 0315	B087332
	350		2.5x10^6	500,000	35	64.5	CC 7,5 gRC 122 EF 0350	W221141
	400		3.1x10^6	600,000	40.5	74.5	CC 7,5 gRC 122 EF 0400	L089388
	450		4x10^6	800,000	49	90	CC 7,5 gRD 122 EF 0450	P220951
	500		6.2x10^{6*}	1.25x10^{6*}	52	95	CC 7,5 gRD 122 EF 0500	Q220952
	250		1.25 x10^6	250,000	25.5	46.7	CC 7,5 gRC 122 TTF 0250	B090437
	315		2x10^6	400,000	31.5	58	CC 7,5 gRC 122 TTF 0315	M085249
	350		2.5x10^6	500,000	35	64.5	CC 7,5 gRC 122 TTF 0350	G220898
	400		3.1x10^6	600,000	40.5	74.5	CC 7,5 gRC 122 TTF 0400	C090438
	450		4x10^{6*}	800,000	49	90	CC 7,5 gRD 122 TTF 0450	R220953
	500		6.2x10^{6*}	1.25x10^{6*}	52	95	CC 7,5 gRD 122 TTF 050	S220954

**MAX. I^2t @ 800V=, L/R=40ms*
Microswitch: MC 3E 1-5N Ref. Number: D310020
Contact factory for holder

Dimensions



660-750V DC Square Body Fuses

Size: 123

Features/Benefits:

- Blown-fuse indicator
- Square ceramic body
- Full range D.C. operation
- Bladed and tapped versions standard

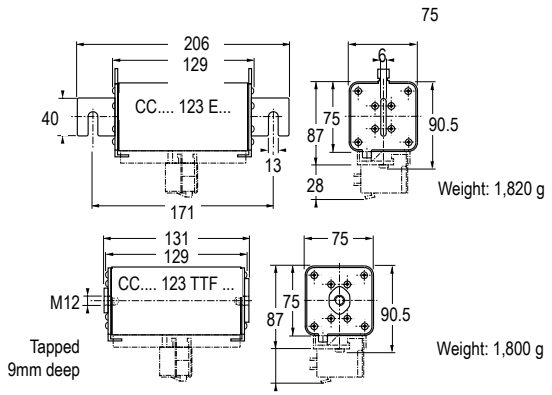


Catalog Numbers, Ratings

Size	Current Rating I_N(A)	Interrupting I_N(A)	Maximum I^2t @900V=L/R 40ms		Watts Loss		Catalog Number	Ref. No.
			Ip=101$_N$	Ip=501$_N$	0.8 I_N	I_N		
123	500	@750VDC 100kA L/R=100ms	$5x10^6$	$1x10^6$	51	93.5	CC 7,5 gRC 123 EF 0500	M089389
	500	@900VDC 100kA L/R = 40ms	$5x10^6$	$1x10^6$	51	93.5	CC 7,5 gRC 123 TTF 0500	D090439
			maximum I^2t (A^2s) @800V = L/R 40ms					
			$I_{p=10\ I_N}$	$I_{p=50\ I_N}$				
	630	@750VDC 100kA L/R=50ms	$7.5x10^6$	$1.5x10^6$	74		CC 7,5 gRB 123 EF 0630	B098556
	700		$10x10^6$	$2x10^6$	82		CC 7,5 gRB 123 EF 0700	Q078191
	750		$10x10^6$	$2x10^6$	82		CC 7,5 gRD 123 EF 0750	F220943
	630		$7.5x10^6$	$1.5x10^6$	74		CC 7,5 gRB 123 TTF 0630	C098557
	700		$10x10^6$	$2x10^6$	82		CC 7,5 gRB 123 TTF 0700	F090441
	750		$10x10^6$	$2x10^6$	82		CC 7,5 gRD 123 TTF 0750	H220945
			maximum I^2t (A^2s) @660V = L/R 30ms					
			$I_{p=10\ I_N}$	$I_{p=50\ I_N}$				
	800	@660VDC 100kA L/R=50ms	$12.15x10^6$	$2.6x10^6$	90		CC 6.6 gRB 123 EF 0800	G220944
	800		$12.15x10^6$	$2.6x10^6$	90		CC 6.6 gRB 123 TTF 0800	J220946

Contact factory for holder

Dimensions



Ratings:

CC 7.5gRC

Volts : 750VDC
: 900VDC
Amps : 500A
IR : 100kA I.R. DC
L/R : 100mSec (750V)
L/R : 40mSec (900V)

CC 7.5gRB, gRD

Volts : 750VDC
Amps : 630 to 750A
IR : 100kA I.R. DC
L/R : 50mSec

CC 6.6gRB

Volts : 660VDC
Amps : 800A
IR : 100kA I.R. DC
L/R : 50mSec

Rated Current (A)	Max. Operating Current (A)
630	550
700	600
750	600
800	650

750V DC Square Body/Special Purpose

Size 2x122

gRC - gRD from 500 to 900 A

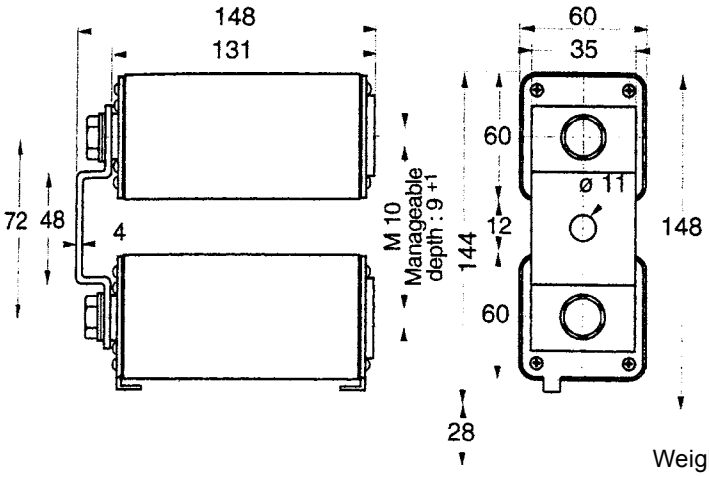


Catalog Numbers, Ratings

Size	Current Rating I_N(A)	Interrupting I_N(A)	Maximum I^2t @900V=L/R 40ms		Watts Loss		Catalog Number	Ref. No.
			$Ip=101_N$	$Ip=501_N$	0.8 I_N	I_N		
2 x 122	500	@ 900V DC 100kA L/R = 40ms	$5x10^6$	$1x10^6$	51	94	CC 7,5 gRC 2122 TTF 0500	Q090473
	630		$8x10^6$	$1.6x10^6$	63	116	CC 7,5 gRC 2122 TTF 0630	R090474
	800		$12.4x10^6$	$2.4x10^6$	81	149	CC 7,5 gRC 2122 TTF 0800	S090475
	900		$16x10^6$	$3.2x10^6$	98	180	CC 7,5 gRD 2122 TTF 0900	T220955
			maximum I^2t (A^2s) @800V = L/R 40ms $I_{p=10\ I_N}$ $I_{p=50\ I_N}$					
	1000	@750VDC 100kA L/R=50ms	$25x10^6$	$4.8x10^6$	104		CC 7,5 gRD 2122 TTF 1000	V220956

Microswitch: MC 3E 1-5N Ref. Number: D310020

Dimensions



Weight: 2,825g

Ratings:

Volts : 900VDC
: 750VDC
Amps : 500 to 1000A
IR : 100kA I.R.
L/R : 40mSec (900V)
L/R : 100mSec (750V)

660-750V DC Square Body/Special Purpose

Size 2x123

gRC - gRB, gRD, gRC - gRD from 1000 to 1600A

Catalog Numbers, Ratings

Size	Current Rating I_N(A)	Interrupting I_N(A)	Maximum I^2t @900V=L/R 40ms Ip=101$_N$	Ip=501$_N$	Watts Loss 0.8 I_N	I_N	Catalog Number	Ref. No.
2 x 123	1000	@750VDC 100kA L/R=100ms @900VDC 100kA L/R = 40ms	$20x10^6$	$4x10^6$	102	87	CC 7,5 gRC 2123 TTF 1000	Z090481
			maximum I^2t (A^2s) @800V = L/R 40ms $I_{p=10\ I_N}$	$I_{p=50\ I_N}$				
	1250	@750VDC 100kA L/R=50ms	$30x10^6$	$6x10^6$	148		CC 7,5 gRB 2123 TTF 1250	D098558
	1400		$40x10^6$	$8x10^6$	164		CC 7,5 gRB 2123 TTF 1400	B090483
	1500		$40x10^6$	$8x10^6$	164		CC 7,5 GRD 2123 TTF 1500	K220947
			maximum I^2t (A^2s) @660V = L/R 30ms $I_{p=10\ I_N}$	$I_{p=50\ I_N}$				
	1600	@660VDC 100kA L/R=50ms	$48.6x10^6$	$10x10^6$	90		CC 6.6 gRB 2123 TTF 1600	L220948

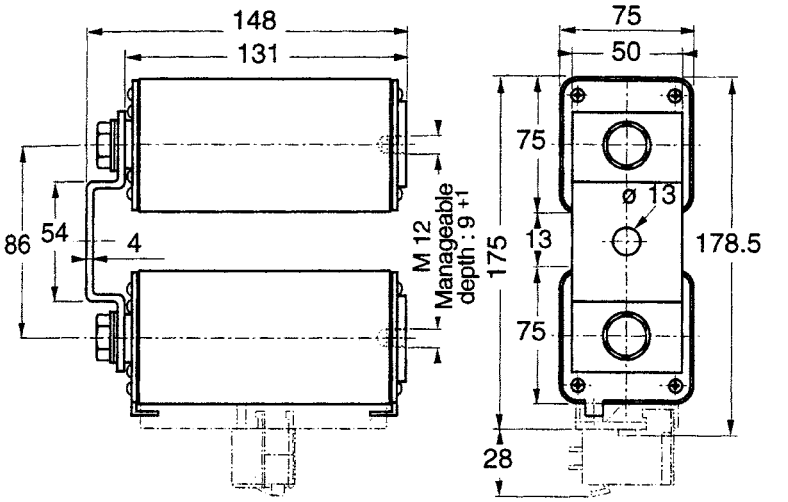
Microswitch: MC 3E 1-5N Ref. Number: D310020



Ratings:

Volts : 900VDC
: 750VDC
: 660VDC
Amps : 1000 to 1600A
IR : 100kA I.R.
L/R : 40mSec (900V, 1000A)
L/R : 50mSec (125 to 1500A)
L/R : 100mSec (750V, 1000A)

Dimensions



Weight: 3,600 g

Rated Current (A)	Max. Operating Current (A)
1250	1100
1400	1200
1500	1200
1600	1300

1200V DC Square Body

Size 72

SRG from 160 to 420 A



Catalog Numbers, Ratings

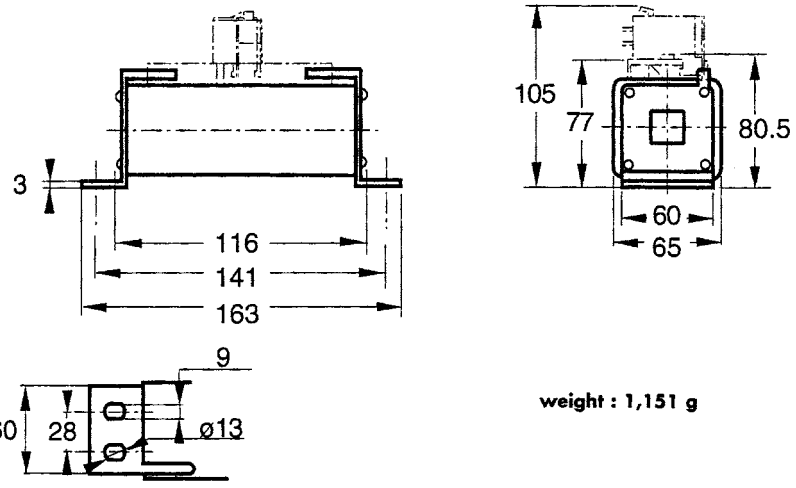
Size	Current Rating I_N(A)	Interrupting I_N(A)	Maximum I^2t @1000V=		Watts Loss		Catalog Number	Ref. No.
			L/R=15ms	L/R=45ms	0.8 I_N	I_N		
72	160	@ 900V DC 100kA L/R = 40ms	12000	20000	41	77.5	CC 12 SRG 72 QF 0160	K079428
	200		21000	36000	48	88	CC 12 SRG 72 QF 0200	L079429
	250		45500	78500	57	96	CC 12 SRG 72 QF 0250	M079430
	315		90000	154000	60	110	CC 12 SRG 72 QF 0315	N079431
	400		182000	314000	66	129	CC 12 SRG 72 QF 0400	P079432
	420		220000	380000	67	131	CC 12 SRG 72 QF 0420	Q079433

Microswitch: MC 3E 1-5N Ref. Number: D310020

Ratings:

Volts : 1200VDC
Amps : 160 to 420A
IR : 100kA I.R.
L/R : 15mSec

Dimensions



weight : 1,151 g

2000V DC Square Body

Size 120

SRC from 20 to 215 A



Catalog Numbers, Ratings

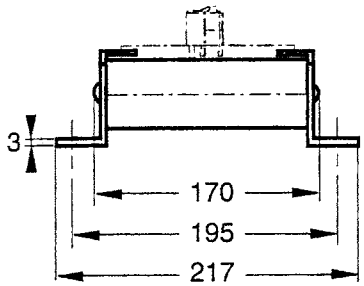
Size	Current Rating I_N(A)	Interrupting I_N(A)	Maximum I^2t @1000V=		Watts Loss		Catalog Number	Ref. No.
			L/R=15ms	L/R=45ms	0.8 I_N	I_N		
120	20	@ 2000VDC = 100kA L/R = 15ms	180	310	8	16	CC 20 SRC 120 QF 0020	J079450
	25		180	310	12.5	25	CC 20 SRC 120 QF 0025	K079451
	32		350	610	14.5	29.5	CC 20 SRC 120 QF 0032	L079452
	40		580	1000	17.5	36	CC 20 SRC 120 QF 0040	M079453
	50		1030	1800	20.5	42	CC 20 SRC 120 QF 0050	N079454
	63		1600	2800	26	53.5	CC 20 SRC 120 QF 0063	P079455
	80		3100	5400	30	61.5	CC 20 SRC 120 QF 0080	Q079456
	100		5800	10000	35	70.5	CC 20 SRC 120 QF 0100	R079457
	125		9200	16000	43	87.5	CC 20 SRC 120 QF 0125	S079458
	160		19200	33200	49	99	CC 20 SRC 120 QF 0160	T079459
	200		45000	78500	49.5	101	CC 20 SRC 120 QF 0200	V079460
	215		55000	95000	52	106	CC 20 SRC 120 QF 0215	W079461

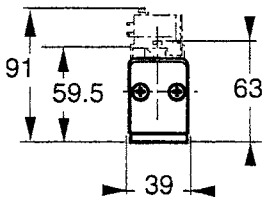
Recommended Standard Microswitch: MCR3E1-5N BS Reference Number: G310023

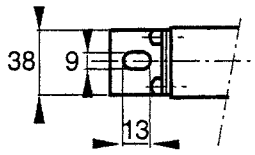
Ratings:

Volts : 2000VDC
Amps : 20 to 215A
IR : 100kA I.R.
L/R : 15mSec

Dimensions







Weight : 745 g

2000V DC Square Body

Size 122

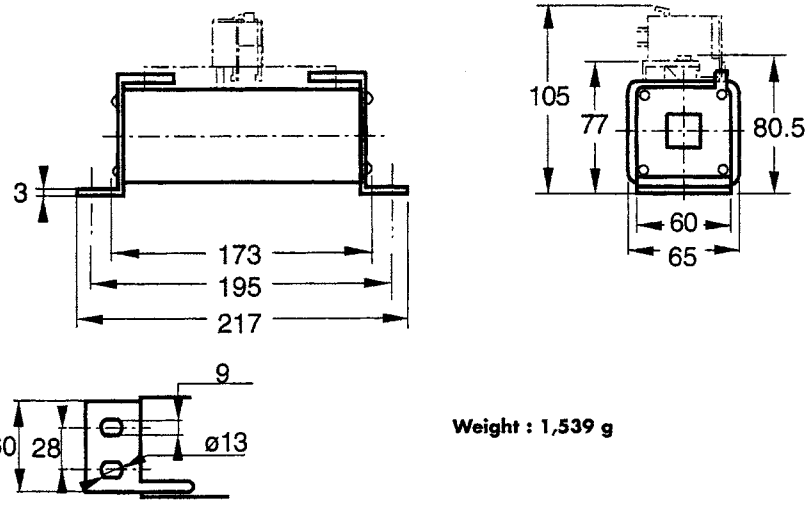
SRD from 160 to 400 A

Catalog Numbers, Ratings

Size	Current Rating I_N(A)	Interrupting I_N(A)	Maximum I^2t @100V=		Watts Loss		Catalog Number	Ref. No.
			L/R=15ms	L/R=45ms	0.8 I_N	I_N		
122	160	@ 1800VDC	15000	25000	52.5	100	CC 20 SRD 122 QF 0160	D076639
	200	100kA	26000	44000	61.5	118	CC 20 SRD 122 QF 0200	X079462
	250	L/R = 30ms	50000	87000	69	131	CC 20 SRD 122 QF 0250	Y079463
	315	@ 2000VDC	117000	200000	74	150	CC 20 SRD 122 QF 0315	Z079464
	400	100kA L/R = 15ms	219000	380000	87	175	CC 20 SRD 122 QF 0400	A079465

Recommended Standard Microswitch: MCR3E1-5N; Reference Number: G310023
Recommended BS Microswitch: MCR3E1-5N BS; Reference Number: P310030

Dimensions



Weight : 1,539 g



Ratings:

Volts : 1800VDC
: 2000VDC
Amps : 160 to 400A
IR : 100kA I.R.
L/R : 30mSec (1800V)
L/R : 15mSec (2000V)

3500-4000V DC Square Body

Size 600

gRB - grD from 6 to 125 A



Catalog Numbers, Ratings

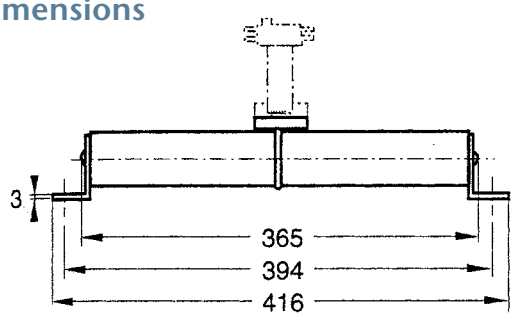
Size	Current Rating I_N(A)	Interrupting I_N(A)	Watts Loss 0.8 I_N	Watts Loss I_N	Catalog Number	Ref. No.
	6		5.3	9.5	CC 35 gRB 600 QF 0006	S083736
	8		7	12.7	CC 35 gRB 600 QF 0008	R083735
	10	@ 3500 V DC	10.2	18.5	CC 35 gRB 600 QF 0010	N089390
	12	30kA	11	20	CC 35 gRB 600 QF 0012	V082220
	16	L/R = 30 ms	13.1	24	CC 35 gRB 600 QF 0016	P089391
	20		14	25.4	CC 35 gRB 600 QF 0020	Q089392
	25		18	32.5	CC 35 gRB 600 QF 0025	R089393
600	32		25.5	46	CC 40 gRB 600 QF 0032	A086963
	40	@ 4000 V DC	35	63	CC 40 gRB 600 QF 0040	B086964
	50	30kA	29	52	CC 40 gRB 600 QF 0050	C086965
	63	L/R = 30 ms	42	76.5	CC 40 gRB 600 QF 0063	D086966
	80		51	92	CC 40 gRB 600 QF 0080	E086967
	80	@ 4000 V DC	3.9	67	CC 40 gRD 600 QF 0080	B075763
	100	30kA	50.5	88	CC 40 gRD 600 QF 0100	C075764
	125	L/R = 30 ms	63	110	CC 40 gRD 600 QF 0125	D075765

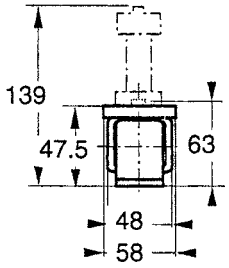
Microswitch: 2R 3E 1-5N BS Ref. Number: J310025

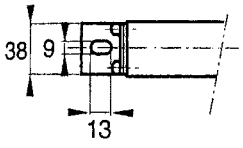
Ratings:

Volts : 3500VDC
: 4000VDC
Amps : 6 to 125A
IR : 30kA I.R.
L/R : 30mSec

Dimensions







Weight: 1,445 g

HP6M 600V DC Midget (10x38mm) Photovoltaic Fuses

About the HP6M Fuse

Mersen's HP6M photovoltaic (PV) fuse series was engineered and designed specifically for the protection of photovoltaic systems. Its enhanced fuse construction makes it ideal for continuous temperature and current cycling withstand adding to system longevity. The 600VDC rated HP6M, designed for low minimum breaking capacity capabilities of 1.35 times the fuse rated current value, allows for safe circuit interruption under typical low fault current conditions produced by PV arrays. Protect your off-grid or grid tied PV system from unexpected ground faults and line faults using Mersen's HelioProtection® fuse line.



Features/Benefits:

- Low fault current interrupting capability
- Durable construction for enhanced system longevity
- Temperature cycle withstand capability
- Guaranteed operation at temperature extremes
- Industries first UL Listed Solution
- Globally accepted

Applications:

- All photovoltaic applications
- PV string/array level protection
- Combiner box applications
- In-line PV module protection
- Inverters
- Battery charge controllers

Ratings:

Volts : 600VDC
Amps : 1 to 30A
IR : 10kA I.R. DC
MBC : 1.35 x In

Photovoltaic Fuse, gPV

Catalog Numbers (amps)

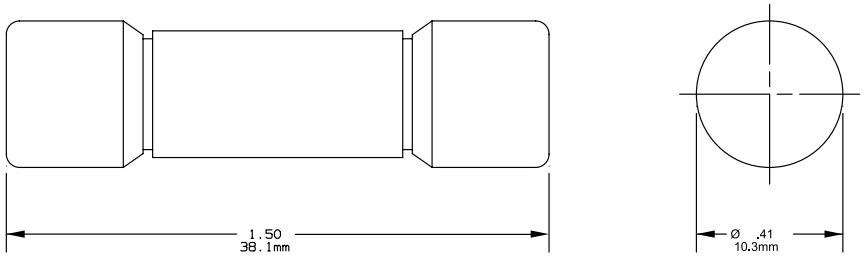
HP6M1	HP6M8
HP6M2	HP6M10
HP6M3	HP6M12
HP6M4	HP6M15
HP6M5	HP6M20
HP6M6	HP6M25
HP6M7	HP6M30

Catalog Numbers - Fuseholder

	UltraSafe™ Non-Indicating	UltraSafe™ Indicating
Screw Type	USM1HEL	USM1IHEL
Spring Type	USGM1HEL	USGM1IHEL

For additional information, view catalog page H2, USCC & USM UltraSafe™ Fuseholders.

Dimensions



Approvals:

- UL Listed to Standard UL2579 File E333668
- CSA Component Certified C22.2
- IEC 60269-6 Approved

HP6J 600V DC Class J Photovoltaic Fuses

About the HP6J Fuse

Mersen's HP6J photovoltaic (PV) fuse series was engineered and designed specifically for the protection of photovoltaic systems. Its enhanced fuse construction makes it ideal for continuous temperature and current cycling withstand adding to system longevity. The 600VDC rated HP6J designed for low minimum breaking capacity capabilities of 1.35 times the fuse rated current value allows for safe circuit interruption under typical low fault current conditions produced by PV arrays. Protect your off-grid or grid tied PV system from unexpected ground faults and line faults using Mersen's Helio Protection fuse line.

Features/Benefits:

- Smallest footprint in the industry
- UL class J dimensions
- Low fault current interrupting capability
- Durable construction for enhanced system longevity
- Temperature cycle withstand capability
- Guaranteed operation at temperature extremes
- Industries first UL Listed Solution
- Globally accepted

Applications:

- Re-combiner (sub-combiner, array combiner, master combiner) applications
- Inverter DC input protection
- Battery charge controllers



Ratings:

Volts : 600VDC
Amps : 70 to 600A
IR : 10kA I.R. DC
MBC : 1.35 x In

Photovoltaic Fuse

Catalog Numbers (amps)

Frame Size 1	Frame Size 2	Frame Size 3	Frame Size 4
HP6J70	HP6J110	HP6J225	HP6J450
HP6J80	HP6J125	HP6J250	HP6J500
HP6J90	HP6J150	HP6J300	HP6J600
HP6J100	HP6J175	HP6J350	
	HP6J200	HP6J400	

Catalog Numbers - Fuseholder

Box Terminal to Box Terminal Configuration, 1-Pole						
Ampere Rating	Clip Configuration	Wire Range	Wire Type	Stud Type	Catalog No.	Temperature Rating of Wire Terminal
100	In-line	2/0 - #6	Cu	-	61006HPJ	
200	Side	350kcmil - #6		-	62001HPJ	90° C
400	In-line	(2) 350kcmil - #6	Al/Cu	-	64031HPJ	
600	In-line	(2) 500kcmil - #4		-	6631HPJ	75° C

For additional configurations and information view Mersen's Solar Power Solutions Guide at http://ep-us.mersen.com/solarpower

Approvals:

- UL Listed to Standard UL2579 File E333668
- CSA Component Certified C22.2

HelioProtection®

UL LISTED

RoHS 2002/95/EC

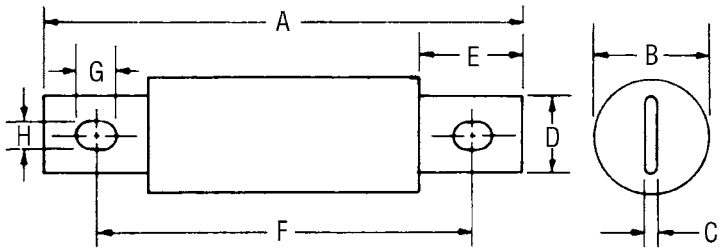
MERSEN

HP6J 600V DC Class J Photovoltaic Fuses

Electrical Specifications

Catalog Number	Ampere Rating (A)	Voltage (VDC)	Interrupting Rating (kA)	Watts Loss @ 80% x In (W)	Watts Loss @ 100% x In (W)
HP6J70	70	600	10	5.8	10
HP6J80	80	600	10	6.4	11
HP6J90	90	600	10	7.5	13
HP6J100	100	600	10	8.1	14
HP6J110	110	600	10	10.4	18
HP6J125	125	600	10	11	19
HP6J150	150	600	10	12.8	22
HP6J175	175	600	10	13.9	24
HP6J200	200	600	10	15.1	26
HP6J225	225	600	10	17.4	30
HP6J250	250	600	10	20.9	36
HP6J300	300	600	10	22	38
HP6J350	350	600	10	23.2	40
HP6J400	400	600	10	24.4	42
HP6J450	450	600	10	33.6	58
HP6J500	500	600	10	34.2	59
HP6J600	600	600	10	39.4	68

Dimensions



Frame Size	Ampere Rating	A		B		C		D		E		F		G		H	
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
1	70-100	4-5/8	117	1-1/16	27	1/8	3.2	3/4	19	1	25	3-5/8	92	3/8	10	9/32	7
2	110-200	5-3/4	146	1-5/8	41	3/16	4.8	1-1/8	29	1-3/8	35	4-3/8	111	17/32	14	9/32	7
3	225-400	7-1/8	181	2-1/8	54	1/4	6.3	1-7/8	41	1-7/8	48	5-1/4	133	17/32	14	13/32	10
4	450-600	8	203	2-1/2	64	3/8	9.5	2	51	2-1/8	54	6	152	11/16	18	17/32	13

HP10M 1000V DC Midget (10x38mm) Photovoltaic Fuses

Engineered to protect photovoltaic applications

Mersen's HP10M photovoltaic (PV) fuse series was engineered and designed specifically for the protection of photovoltaic systems. Its enhanced fuse construction makes it ideal for continuous temperature and current cycling withstand adding to system longevity. The 1000VDC rated HP10M, designed for low minimum breaking capacity capabilities of 1.35 times the fuse rated current value, allows for safe circuit interruption under typical low fault current conditions produced by PV arrays. Protect your off-grid or grid tied PV system from unexpected ground faults and line faults using Mersen's Helio Protection fuse line.



Features/Benefits:

- Low fault current interrupting capability
- Durable construction for enhanced system longevity
- Temperature cycle withstand capability
- Guaranteed operation at temperature extremes
- Industries first UL Listed Solution
- Globally accepted

Applications:

- All photovoltaic applications
- PV string/array level protection
- Combiner box applications
- In-line PV module protection
- Inverters
- Battery charge controllers

Ratings:

Volts : 1000VDC
Amps : 1 to 32A
IR : 50kA I.R. DC
MBC : 1.35 x In

Photovoltaic Fuse, gPV

Catalog Numbers (amps)

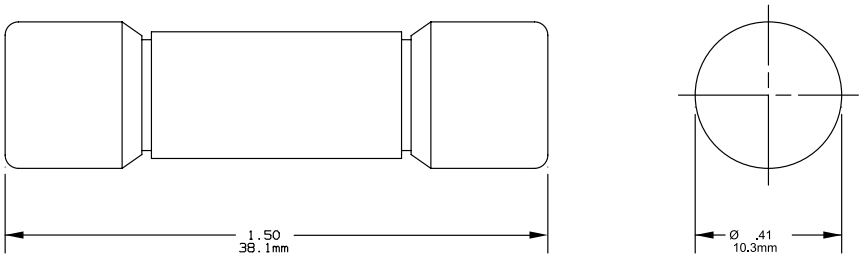
HP10M1	HP10M8
HP10M2	HP10M10
HP10M3	HP10M12
HP10M3½	HP10M15
HP10M4	HP10M20
HP10M5	HP10M25
HP10M6	HP10M30
HP10M7	HP10M32

Catalog Numbers - Fuseholder

	UltraSafe™ Non-Indicating	UltraSafe™ Indicating
Screw Type	USM1HEL	USM1IHEL
Spring Type	USGM1HEL	USGM1IHEL

For additional information, view catalog page H2, USCC & USM UltraSafe™ Fuseholders.

Dimensions



Approvals:

- UL Listed to Standard UL2579 File E333668
- CSA Component Certified C22.2
- IEC 60269-6 Approved

HP10J 1000V DC Class J Photovoltaic Fuses

The industry's most efficient 1000VDC fuses

Mersen's HP10J photovoltaic (PV) fuse series was engineered and designed specifically for the protection of photovoltaic systems. Its enhanced fuse construction makes it ideal for continuous temperature and current cycling withstand adding to system longevity. The 1000VDC rated HP10J designed for low minimum breaking capacity capabilities of 1.35 times the fuse rated current value, allows for safe circuit interruption under typical low fault current conditions produced by PV arrays. Protect your off-grid or grid tied PV system from unexpected ground faults and line faults using Mersen's HelioProtection® fuse line.



Features/Benefits:

- UL Listed to standard 2579 – Photovoltaic Fuses
- Smallest available footprint in the industry
- Enlarged mounting holes
- Low fault current interrupting capability
- Durable construction for enhanced system longevity
- Temperature cycle withstand capability
- Guaranteed operation at temperature extremes
- Blown fuse indicator options available (EI option)
- 200A to 400A available in NH3 mounting

Applications:

- Re-combiner box (sub-combiner, array combiner, master combiner) applications
- Inverter DC input
- Battery charge controllers

Ratings:

Volts : 1000VDC (70A to 600A)
: 600VAC (70A to 400A)
Amps : 70A to 600A
IR : 65kA @ 1000VDC
: 200kA@ 600VAC
MBC : 1.35 x In
Photovoltaic Fuse

Catalog Numbers (amps)

Frame Size 1	Frame Size 2	Frame Size 3
HP10J70	HP10J250	HP10J450
HP10J80	HP10J300	HP10J500
HP10J100	HP10J350	HP10J600
HP10J125	HP10J400	
HP10J160		
HP10J200		

For NH3 mounting on 200A to 400A, add suffix "XL" to catalog number (ex. HP10J400XL). 200A part number is HP10J200/400XL.

For mechanical blown fuse indication, add suffix "EI" to the catalog number (ex. HP10J200EI).

When using the EI Indicator, if remote blown fuse signal is desired, select AOS-Q (quick connect terminal) or AOS-S (screw terminal).

Mersen AOS (Add-on switches) contain one single-pole double-throw (NO-NC) contact rated 4 amperes resistive and 1 ampere inductive at 250VAC maximum.

Approvals:

- UL listed to Standard 2579 File E333668 (70A to 600A)
- UL listed to Standard 248 File E2137 (70A to 400A)
- CSA Component Certified C22.2 (70A to 400A)

HelioProtection®

UL LISTED

RoHS 2002/95/EC

HP10J 1000V DC Class J Photovoltaic Fuses

Class J PV Fuse, 1000VDC, 65kA IR DC, Frame Size 1



Catalog Number	Reference Number	Rated Current I^n (Amps)	Power Dissipation at $0.7xI_n$ (Watts)	Power Dissipation at $0.8xI_n$ (Watts)	Power Dissipation at $1.0xI_n$ (Watts)	Package
HP10J70	Z1040749	70	3	5	10	1
HP10J80	A1040750	80	4	5	10	1
HP10J100	B1040751	100	6	7	15	1
HP10J125	C1040752	125	5	7	14	1
HP10J160	D1040753	160	6	8	16	1
HP10J200	E1040754	200	10	15	27	1

Class J PV Fuse, 1000VDC, 65kA IR DC, Frame Size 2



Catalog Number	Reference Number	Rated Current I_n (Amps)	Power Dissipation at $0.7xI_n$ (Watts)	Power Dissipation at $0.8xI_n$ (Watts)	Power Dissipation at $1.0xI_n$ (Watts)	Package
HP10J250	F1040755	250	13	18	34	1
HP10J300	G1040756	300	16	22	37	1
HP10J350	H1040757	350	17	24	45	1
HP10J400	J1040758	400	19	27	52	1

Class J PV Fuse, 1000VDC, 65kA IR DC, Frame Size 3



Catalog Number	Reference Number	Rated Current I_n (Amps)	Power Dissipation at $0.7xI_n$ (Watts)	Power Dissipation at $0.8xI_n$ (Watts)	Power Dissipation at $1.0xI_n$ (Watts)	Package
HP10J450	K1040759	450	22	27	56	1
HP10J500	K1047107	500	22	31	58	1
HP10J600	L1047108	600	30	43	82	1

Fuse Blocks for Class J PV Fuse, Frame Size 1, 1-Pole, 1000VDC, 100kA SCCR



Catalog Number	Reference Number	Rated Current I_n (Amps)	Terminal Configuration	Wire Range	Wire Insulation Rating	Package
62001HPJ	S1037385	200	Box-Box	350kcmil - #6	90°C	1
62041HPJ	Q1043961	200	Box-Stud	350kcmil - #6	90°C	1
62011HPJ	Q1033680	200	Stud-Stud	350kcmil - #6	90°C	1

Fuse Blocks for Class J PV Fuse, Frame Size 2, 1-Pole, 1000VDC, 100kA SCCR



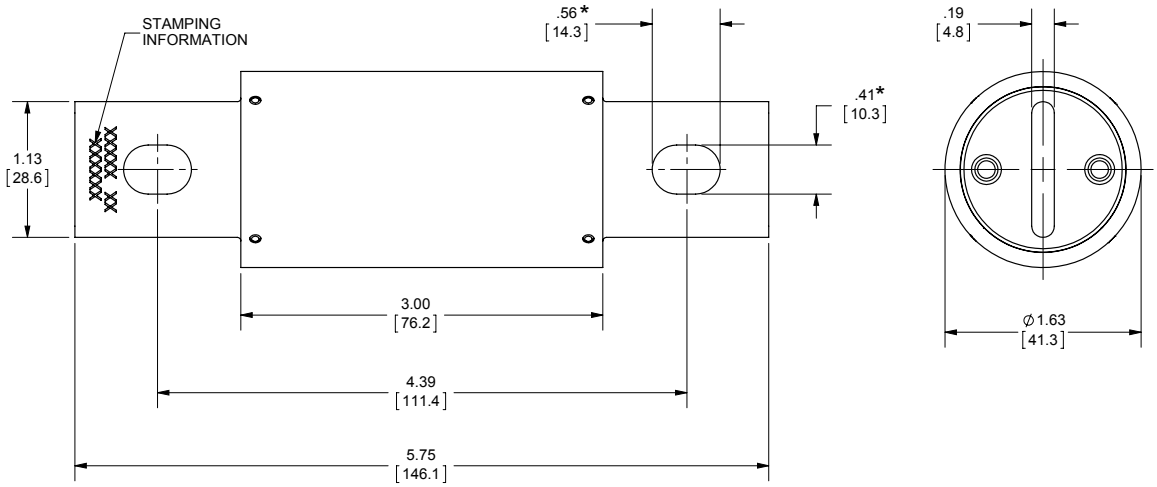
Catalog Number	Reference Number	Rated Current I_n (Amps)	Terminal Configuration	Wire Range	Wire Insulation Rating	Package
64031HPJ	T1037386	400	Box-Box	(2) 350kcmil - #6	90°C	1
64041HPJ	R1043962	400	Box-Stud	(2) 350kcmil - #6	90°C	1
64011HPJ	S1043963	400	Stud-Stud	(2) 350kcmil - #6	90°C	1

Fuse Blocks for Class J PV Fuse, Frame Size 3, 1-Pole, 1000VDC, 100kA SCCR

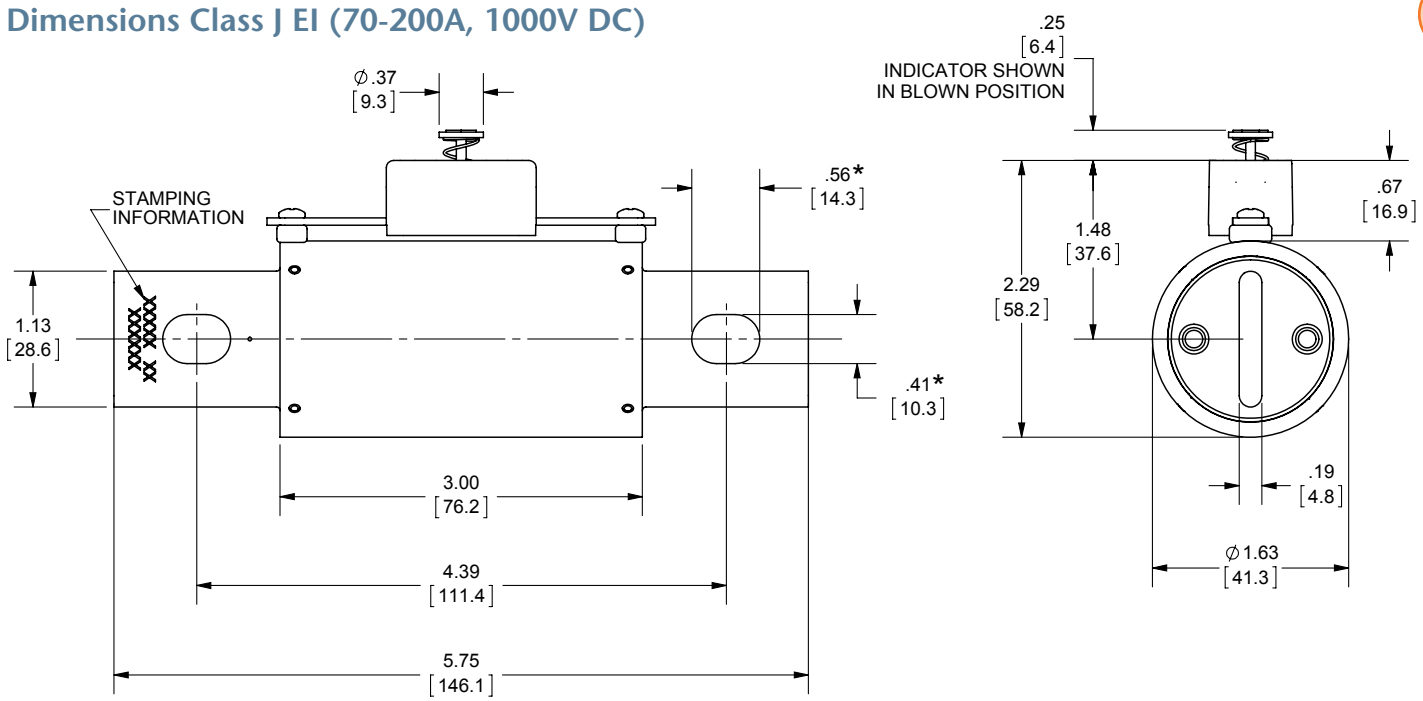
Catalog Number	Reference Number	Rated Current I_n (Amps)	Terminal Configuration	Wire Range	Wire Insulation Rating	Package
6631HPJ		600	Box-Box	(2) 350kcmil - #6	90°C	1
6641HPJ		600	Box-Stud	(2) 350kcmil - #6	90°C	1
6611HPJ		600	Stud-Stud	(2) 350kcmil - #6	90°C	1

HP10J 1000V DC Class J Photovoltaic Fuses

Dimensions Class J (70-200A, 1000V DC)



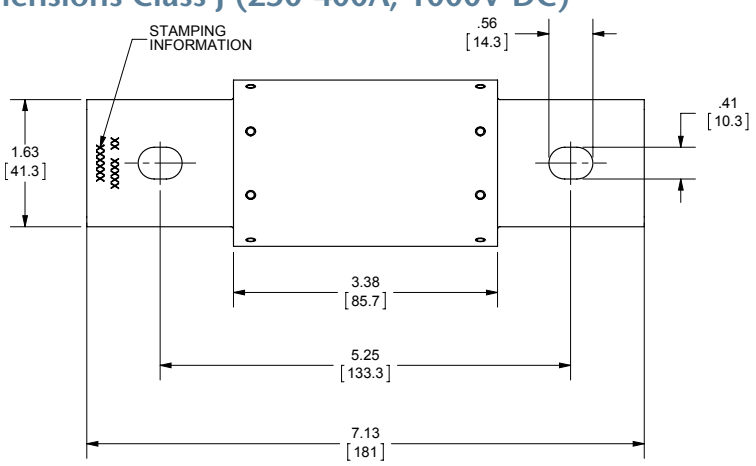
Dimensions Class J EI (70-200A, 1000V DC)



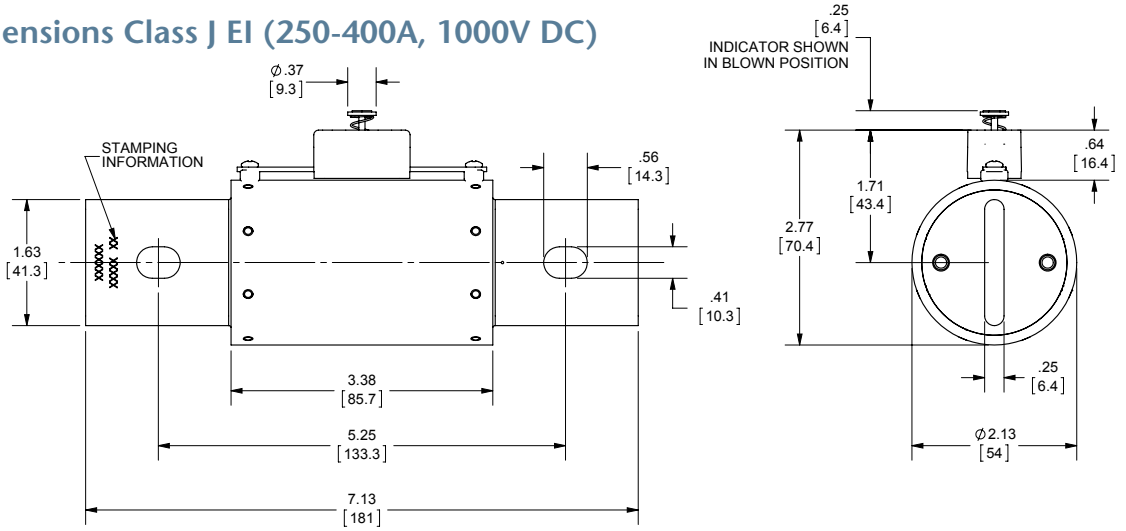
** Enlarged mounting holes designed to accept 5/16" DIA bolt sizes.*

HP10J 1000V DC Class J Photovoltaic Fuses

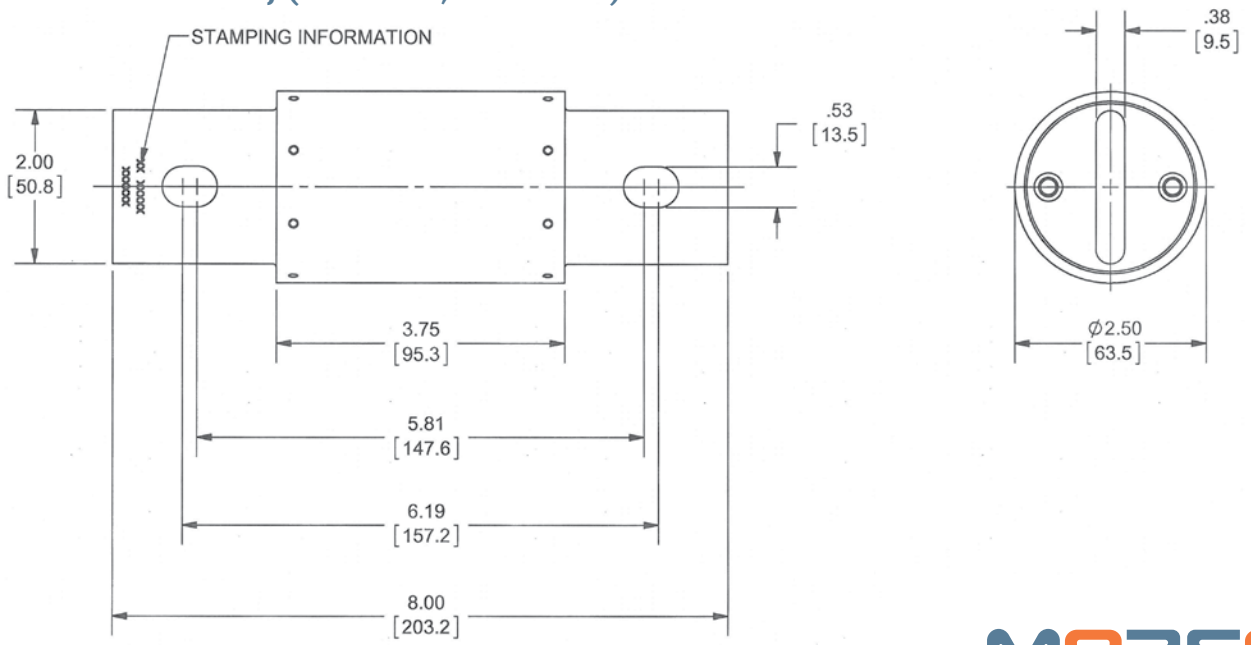
Dimensions Class J (250-400A, 1000V DC)



Dimensions Class J EI (250-400A, 1000V DC)



Dimensions Class J (450-600A, 1000V DC)



HP10NH 1000V DC Size NH Photovoltaic Fuses

About the HP10NH Fuse

Mersen's HP10NH photovoltaic (PV) fuse series was engineered and designed specifically for the protection of photovoltaic systems. Its enhanced fuse construction makes it ideal for continuous temperature and current cycling withstand adding to system longevity. The 1000VDC rated HP10NH designed for low minimum breaking capacity capabilities of 1.35 times the fuse rated current value, allows for safe circuit interruption under typical low fault current conditions produced by PV arrays. Protect your off-grid or grid tied PV system from unexpected ground faults and line faults using Mersen's HelioProtection® Fuse line.



Features/Benefits:

- Global acceptance
- Low fault current interrupting capability
- Durable construction for enhanced system longevity
- Temperature cycle withstand capability
- High efficiency with low power losses

Applications:

- Re-combiner box (sub-combiner, array combiner, master combiner) applications
- Inverter DC input
- Battery charge controllers

Ratings:

Volts : 1000VDC
Amps : 50 to 250A
IR : 50kA I.R. DC
MBC : 1.35 x In

Photovoltaic Fuse, gPV

Catalog Numbers (amps)

Size NH1	
HP10NH1GPV50	HP10NH1GPV100
HP10NH1GPV63	HP10NH1GPV125
HP10NH1GPV80	HP10NH1GPV160

Size NH2
HP10NH2GPV200
HP10NH2GPV250

Catalog Numbers - Fuse Block

Catalog Number	Ampere Rating (A)	Voltage Rating (V)	No. of Poles	For use with	Description
HPBB11PPR	250	1000	1	NH1	Open Style
HPBB11PPRFS					Open Style with Protective Cover
HPBB21PPR	315	1000	1	NH2	Open Style
HPBB21PPRFS					Open Style with Protective Cover

For additional information view the HPBB open style fuse block data sheet

Catalog Number - Accessory

Catalog Number	Description
NHHANDLE	Fuse Puller for Size NH 00-4

Approvals:

- IEC 60269-6 Certification
- UL Listed to standard 2579, File E358319

HelioProtection®

UL LISTED CE

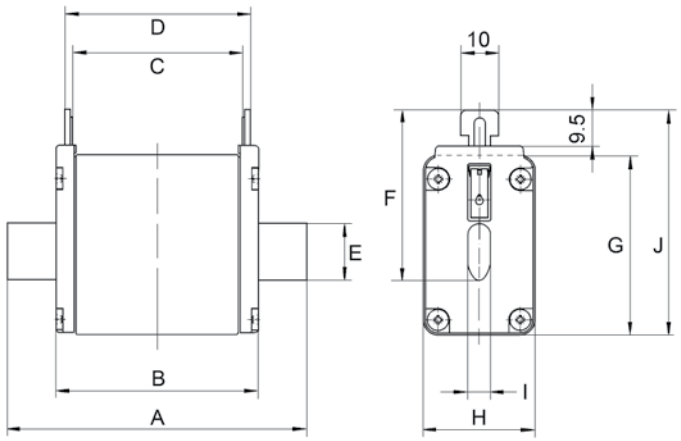
RoHS 2002/95/EC

HP10NH 1000V DC Size NH Photovoltaic Fuses

Electrical Specifications

Catalog Number	Reference Number	Size	Ampere Rating (A)	Voltage Rating (VDC)	Interrupting Rating (kA)	Watts Loss @ 70% x In (W)	Watts Loss @ 100% x In (W)
HP10NH1GPV50	Z1028283	NH1	50	1000	50	4.6	11
HP10NH1GPV63	A1028284	NH1	63	1000	50	5.4	13
HP10NH1GPV80	B1028285	NH1	80	1000	50	6.1	15
HP10NH1GPV100	C1028286	NH1	100	1000	50	7.2	17
HP10NH1GPV125	D1028287	NH1	125	1000	50	7.4	18
HP10NH1GPV160	E1028288	NH1	160	1000	50	9.6	23
HP10NH2GPV200	X1037619	NH2	200	1000	50	12	29
HP10NH2GPV250	Y1037620	NH2	250	1000	50	14	34

Dimensions (mm)



Size	A	B	C	D	E	F	G	H	I	J
NH1	135	70.8	63	68	20	40	52.5	39.5	6	64.5
NH2	150	68	63	68	26	48.5	60	51	6	72

HP15G 1500VDC Class G (10x57mm) Photovoltaic Fuses

Engineered to protect photovoltaic applications

Mersen's HP15G photovoltaic (PV) fuse series was engineered and designed specifically for the protection of photovoltaic systems. Its enhanced fuse construction makes it ideal for continuous temperature and current cycling withstand adding to system longevity. The 1500VDC rated HP15G, designed for low minimum breaking capacity capabilities of 1.35 times the fuse rated current value, allows for safe circuit interruption under typical low fault current conditions produced by PV arrays. In addition to the standard ferrule terminal, a unique wire crimp terminal (CC option) permits solderless wire-to-fuse connection for overmold encapsulation of fuse and wiring. Protect your off-grid or grid tied PV system from unexpected ground faults and line faults using Mersen's Helio Protection fuse line.



Features/Benefits:

- Low fault current interrupting capability
- Durable construction for enhanced system longevity
- Temperature cycle withstand capability
- Guaranteed operation at temperature extremes
- Industry's first UL Listed Solution
- Globally accepted

Applications:

- In-line PV module protection

Ratings:

Volts : 1500VDC
Amps : 2½ A-5A
IR : HP15G2½ to 4A, Self Certified to 50kA I.R.
: HP15G5, 10kA I.R.
MBC : 1.35 x In

Photovoltaic Fuse, gPV

Catalog Numbers (amps)

Figure 1	HP15G2½	HP15G3	HP15G3½	HP15G4	HP15G5
Figure 2	HP15G2½CC	HP15G3CC	HP15G3½CC	HP15G4CC	HP15G5CC

CC terminal (Fig. 2): Recommended crimping tool: T & B Sta-Kon ERG4002 #10 -12 AWG (6-4 mm²)

Approvals:

- UL Listed to Standard UL2579 File E333668
- IEC 60269-6

Dimensions

Figure 1

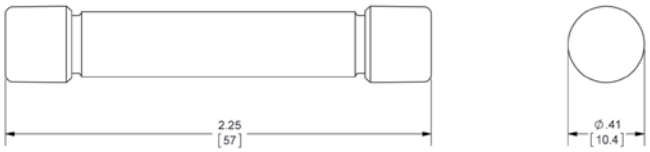
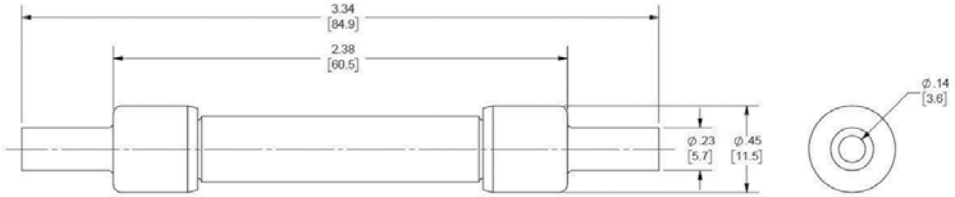


Figure 2



HP15M 1500VDC Midget (10x85mm) Photovoltaic Fuses

Engineered to protect photovoltaic applications

Mersen's HP15M photovoltaic (PV) fuse series was engineered and designed specifically for the protection of photovoltaic systems. Its enhanced fuse construction makes it ideal for continuous temperature and current cycling withstand adding to system longevity. The 1500VDC rated HP15M, designed for low minimum breaking capacity capabilities of 1.35 times the fuse rated current value, allows for safe circuit interruption under typical low fault current conditions produced by PV arrays. Protect your off-grid or grid tied PV system from unexpected ground faults and line faults using Mersen's Helio Protection fuse line.



Features/Benefits:

- Low fault current interrupting capability
- Durable construction for enhanced system longevity
- Temperature cycle withstand capability
- Guaranteed operation at temperature extremes
- Globally accepted
- Recommended Fuse holder: US15M1HEL

Applications:

- All photovoltaic applications
- PV string/array level protection
- Combiner box applications
- In-line PV module protection
- Inverters
- Battery charge controllers

Ratings:

Volts : 1500VDC
Amps : 4A - 32A
SCCR : 50kA

Photovoltaic Fuse

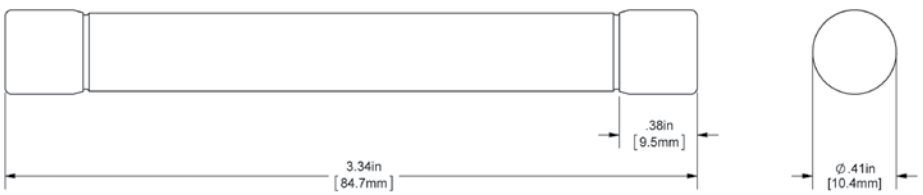
Catalog Numbers (amps)

Catalog Number	Reference Number	Rated Current In (Amps)	Power Dissipation at 0.7xIn (Watts)	Power Dissipation at 0.8xIn (Watts)	Power Dissipation at 1.0xIn (Watts)	Package
HP15M4	F1059569	4	0.84	1.16	1.97	5
HP15M5	X1055053	5	0.84	1.16	1.97	5
HP15M6	Q1053667	6	0.97	1.37	2.42	5
HP15M7	R1053668	7	0.97	1.37	2.43	5
HP15M8	S1053669	8	1.04	1.50	2.60	5
HP15M10	T1053670	10	1.23	1.77	3.09	5
HP15M12	V1053671	12	1.15	1.70	2.89	5
HP15M15	W1053672	15	1.39	1.91	3.48	5
HP15M20	X1053673	20	1.71	2.47	4.28	5
HP15M25	Y1053674	25	2.13	3.08	5.35	5
HP15M30	Z1053675	30	2.56	3.61	6.40	5
HP15M32	G1059570	32	2.56	3.61	6.40	5

Approvals:

- UL Listed to Standard UL2579
- CSA Component Pending
- IEC 60269-6

Dimensions



HP15NH 1500V DC gPV Photovoltaic Fuses

1500VDC for Future Trends and Higher Efficiencies

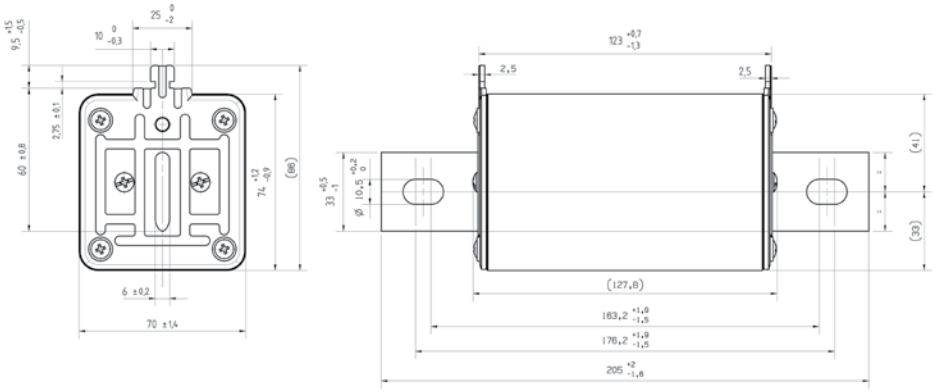
Mersen's HelioProtection HP15NH photovoltaic (PV) fuse series is designed specifically for protection of photovoltaic arrays. Low minimum breaking capacity of 1.35 times the fuse rated current value meets both IEC and UL (pending) standards, allowing for safe circuit interruption under typical low fault current conditions produced by PV arrays. Typical applications include re-combiner box, master combiner box and inverter inputs.



Catalog Numbers and Electrical Characteristics

Voltage (VDC)	Amperage (A)	Catalog Number	Reference Number	Watts Loss @ 70% x In (W)	Watts Loss @ 100% x In (W)	Interrupting Rating (kA)	Size
1500	160	HP15NH3LGPV160B	T1048679	15	35	50	NH3L
	200	HP15NH3LGPV200B	V1048680	17	40		
	250	HP15NH3LGPV250B	W1048681	19	45		
	315	HP15NH3LGPV315B	X1048682	21	52		
	350	HP15NH3LGPV350B	Y1048683	23	56		
	400	HP15NH3LGPV400B	Z1048684	24	59		

Dimensions



Approvals:

- UL listed to 2579
- IEC 60269-6 Certified, gPV
- RoHS Compliant

Catalog Numbers – Fuse Blocks

For use with	Voltage (VDC)	Amperage (A)	Terminal Type	Protective Cover	Catalog Number
NH3L	1500	500 max	Stud-Box	Yes	HPBB2XL3L1PBFS
			Stud-Stud	Yes	HPBB2XL3L1PPFS

HP15NH 1500V DC gPV Photovoltaic Fuses

Dimensions

Special purpose gPV fuse link size NH3L without trip indicator (1026471A)

