



Ferraz Shawmut | Eldre | Idealec | FTCAP

ELECTRICAL POWER

HIGH SPEED FUSES AND FUSEGEAR CATALOG



PROTECTION FOR
POWER ELECTRONIC
AND BATTERY-RELATED
APPLICATIONS



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HIGH SPEED FUSES THAT MEET EVERY MAJOR STANDARD

Standards may change from country to country, but the need for safe, reliable electrical protection for semiconductor applications is the same the world over. That's why Mersen offers the best protection solutions on the market today and the widest range of high speed fuses that meets every major International Standard.

HIGH SPEED FUSE SOLUTIONS

Mersen supports OEM designers and equipment-maintenance personnel with a comprehensive line of high speed fuses. Product lines, such as Protistor® PSC Square Body ceramic semiconductor fuses, have been developed to meet worldwide standards and also match every market with complete lines of North American style round semiconductor fuses, IEC Cylindrical, NH DIN German and British BS88 Standards fuses.

TYPICAL APPLICATIONS

- Protection of Power inverters, converters and rectifiers, AC and DC drives
- DC common bus
- Reduced voltage motor starters
- UPS systems
- Protection of Capacitor banks
- Switchboard and control panels
- DC grids

HIGH SPEED FUSES ARE DIFFERENT FROM REGULAR STANDARD FUSES

High speed fuses are used to protect semiconductor devices against overcurrent conditions. They are specifically designed to reduce the I^2t , peak let-through current and arc voltages during a fault condition. There is hardly an electric powered product that exists today that does not rely on semiconductor technology to some degree. That means extending electrical protection to IGBTs, Silicon Carbide (SiC), GaN, thyristors, triacs, diodes, and a host of other solid-state components, and providing a wide range of voltage requirements, unique mounting configurations, and special protection characteristics. High speed fuses differ vastly from standard fuses in performance and purpose, as indicated in the table below:

| | Overcurrent Protection | Standards | Safety Standards | Ratings | Type of Protection | Purpose |
|---|---------------------------|--------------------------------|---|----------------------|----------------------------|---|
| Semiconductor and Special Purpose Fuses | Power Semiconductor | IEC or UL recognized component | Internationally harmonized (UL/IEC/CSA/CCC) | Non-Standard | Ultra-fast and low-energy | Sensitive component and topology protection |
| Standard Fuses | Cable/overload protection | IEC or UL listed component | Local-specific | Defined by Standards | Short circuit and overload | Provides general protection to power sources and AC loads |

High speed fuses from Mersen are designed to:

- Limit the thermal energy (I^2t) let-through
- Interrupt very high potential fault currents in extremely short times
- Limit the let-thru current in case of a fault
- Ride through normal transient overload conditions
- Withstand heavy duty cycling capabilities

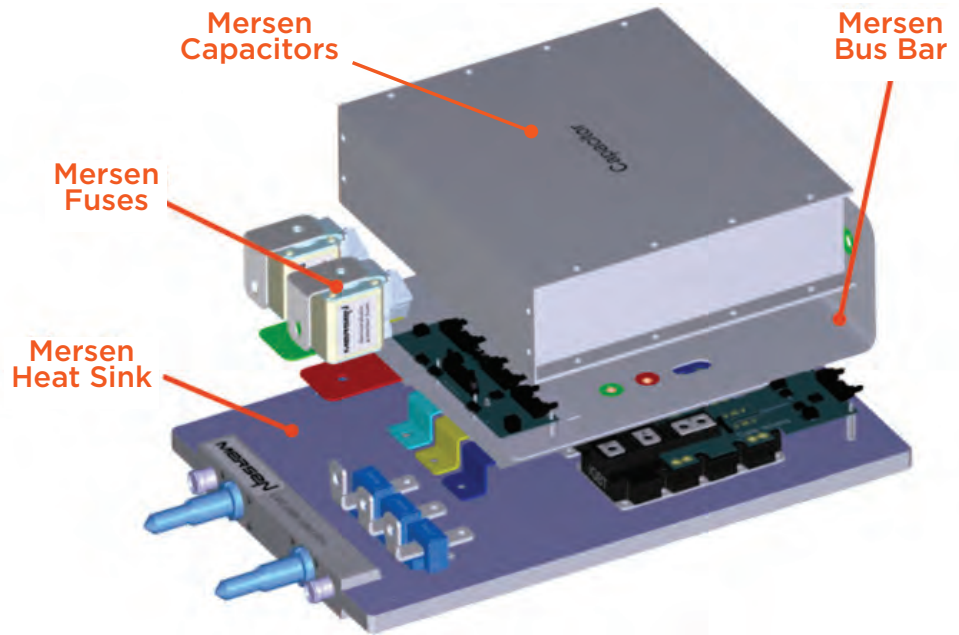
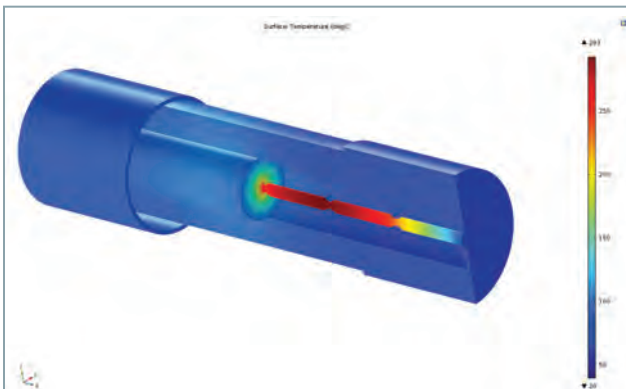
APPLICATION ENGINEERING SUPPORT

Mersen application engineering teams are available to assist our customers with the correct selection of high speed fuses for their applications. Visit ep.mersen.com for more information.

MERSEN HIGH-POWER FUSE TEST LABS

Mersen offers our customers global test capabilities for testing products in North America (Newburyport, Massachusetts) and in Europe (Saint Bonnet de Mure, France). Our labs can conduct fuse performance testing in AC and DC applications under UL/CSA or IEC standards guidelines. We utilize state-of-the-art instruments and software to provide accurate run-testing services and in-depth analysis. For more information on our test capabilities, please contact Mersen.

The labs also play a critical role in custom-fuse development, enabling us to test prototypes quickly and efficiently to keep pace with your development schedule. These labs play a crucial and fundamental role in our quality control program for Mersen's electrical protection products.



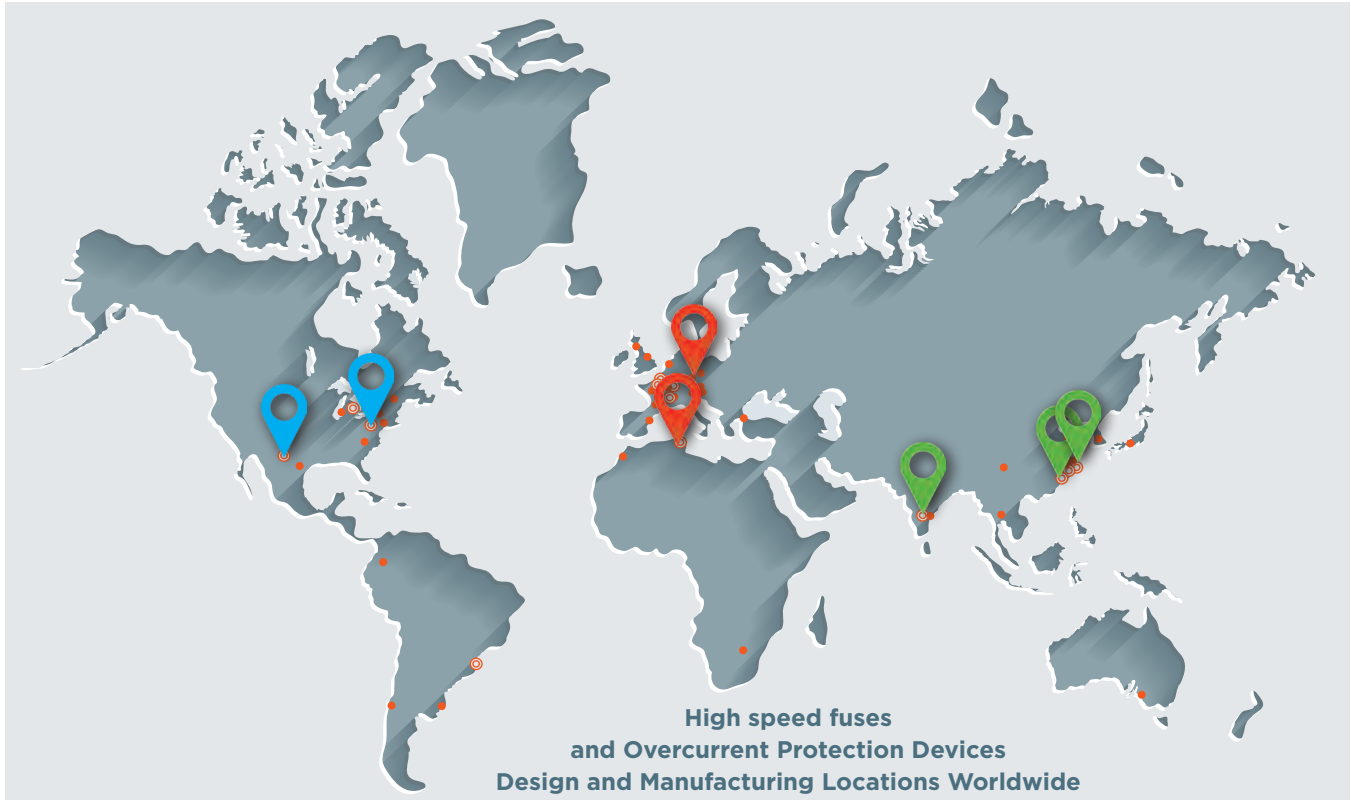
SOLUTIONS FOR POWER MANAGEMENT: TURN TO MERSEN TO BE YOUR DESIGN PARTNER

Combine Mersen square body semiconductor fuses with Mersen's cooling and laminated bus bar solutions and capacitor offering for an optimized system solution to support your power electronics designs. As a design partner with extensive application and product expertise, Mersen is able to maximize system performance, lower total costs, and reduce time to market. Our dedicated power electronics team is available to customize a solution for you. In addition, custom solutions are available for your semiconductor protection needs.

To reduce design time and to optimize performance specifications, Mersen engineering teams can provide state of the art simulations for fuses, heat sinks, and bus bars. Simulations can greatly improve prototype design considerations and reduce manufacturing lead times.

A GLOBAL REPUTATION FOR QUALITY

Mersen's reputation for outstanding technical expertise, product quality, and engineered safety is the result of over a century of design and manufacturing knowledge, coupled with state-of-the-art equipment in various ISO-9001 and ISO-14001 registered facilities around the world.



Newburyport, MA, USA
Design and Test
ISO9001 & ISO14001



Saint-Bonnet, France
Design, Test & Manufacturing
ISO9001 & ISO14001
IRIS & ISO 17025



**Shanghai, China
Wenzhou, China**
Manufacturing
ISO9001 & ISO14001



Juarez, Mexico
Manufacturing
ISO9001 & ISO14001



Tunis, Tunisia
Manufacturing
ISO9001 & ISO14001, OHSAS 18001



Bangalore, India
Manufacturing
ISO9001 & ISO14001

DC FUSES



D100QS Series aR 1000VDC

1000VDC, L/R ≤1ms, 100kA IR, MBC<3kA

Electrification in construction, marine, agriculture, manufacturing, mining, and other industries, in addition to transportation, is a critical trend in cleaner energy. The D100QS North American style round body high-speed fuse series is Mersen's next evolution for high-power conversion applications protection for those industries shifting to Direct Current (DC) systems today. The D100QS fuse series is specifically designed to reduce the I2t, peak let-through current, and arc voltages during fault conditions to protect applications such as battery charging systems and other DC components like relays and contactors.



FEATURES/BENEFITS:

- Lower I2t performance for improved protection of equipment
- Superior cycling ability for long, reliable life on high cyclic loading
- Low watts losses
- High Interrupting rating for optimal short circuit protection
- Designed to provide superior power cycling compared to general purpose fuses
- Built to withstand vibration

APPLICATIONS:

- High Power battery charging and management systems protection
- Energy Storage Systems (ESS)
- Electrical Energy Storage (EES)
- Battery Disconnect Unit (BDU)
- Battery pack protection
- DC Fast-Charging station for EV applications
- Backup protection for DC relay/disconnector/switch
- Protection of 1000VDC or less, UPS and inverters

RATINGS:

- **DC:** 50-300A, 1000VDC, L/R ≤1ms, 100kA IR, MBC<3kA

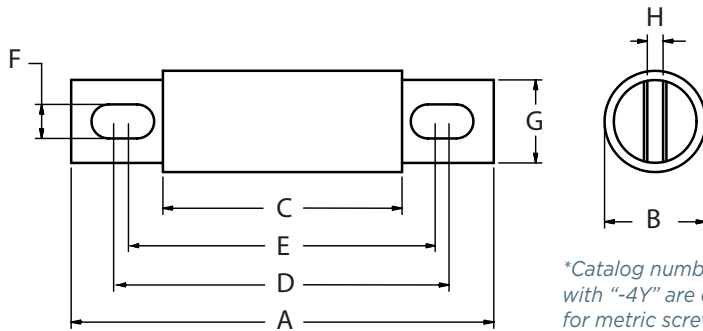
APPROVALS:

- UL Recognized
UL File: E60314
DC: 50-300A, 1000VDC
- REACH/RoHS compliant



DIMENSIONS:

D100QS 50-300A



| Article Number | A | B | C | D | E | F | F* | G | H |
|--------------------------|------------|-------------|-------------|-------------|-------------|-------------|------------|-----------|------------|
| D100QS50 to 100 in [mm] | 4.38 [111] | 1 [25.4] | 2.88 [73] | 3.69 [93.6] | 3.50 [88.9] | 0.31 [7.9] | 0.35 [9.0] | 0.75 [19] | 0.13 [3.2] |
| D100QS125 to 200 in [mm] | 4.38 [111] | 1.22 [31] | 2.88 [73] | 3.69 [93.6] | 3.56 [90.5] | 0.31 [7.9] | 0.35 [9.0] | 1 [25.4] | 0.19 [4.8] |
| D100QS225 to 300 in [mm] | 5.09 [129] | 1.50 [38.1] | 2.84 [72.2] | 4.16 [106] | 3.53 [89.7] | 0.40 [10.2] | - | 1 [25.4] | 0.25 [6.4] |

D100QS Series aR 1000VDC

1000VDC, L/R ≤1ms, 100kA IR, MBC<3kA

PRODUCT RANGE



D100QS100-4



D100QS200-4Y



D100QS300-4

D100QS 50-300A Round Body Fuses

| Catalog number | Max DC voltage, L/R < 1ms (VDC)* | Rated current I _n (A) | Power dissipation | | MBC @1000VDC, L/R < 1ms (A)** | Time to clear MBC (ms) | Weight (kg) | Package |
|-----------------|----------------------------------|----------------------------------|--------------------------|-----------------------|-------------------------------|------------------------|-------------|---------|
| | | | at 0.8I _n (W) | at I _n (W) | | | | |
| D100QS50-4,-4Y | 1000 | 50 | 5.3 | 10 | 960 | 40 | 0.12 | 5 |
| D100QS60-4,-4Y | 1000 | 60 | 6.5 | 12 | 1160 | 40 | 0.12 | 5 |
| D100QS70-4,-4Y | 1000 | 70 | 8.1 | 15 | 1350 | 40 | 0.12 | 5 |
| D100QS80-4,-4Y | 1000 | 80 | 9.7 | 18 | 1540 | 40 | 0.12 | 5 |
| D100QS90-4,-4Y | 1000 | 90 | 11 | 20 | 1730 | 40 | 0.12 | 5 |
| D100QS100-4,-4Y | 1000 | 100 | 13 | 24 | 1920 | 40 | 0.12 | 5 |
| D100QS125-4,-4Y | 1000 | 125 | 12 | 22 | 940 | 80 | 0.19 | 5 |
| D100QS150-4,-4Y | 1000 | 150 | 16 | 29 | 1130 | 80 | 0.19 | 5 |
| D100QS175-4,-4Y | 1000 | 175 | 19 | 35 | 1320 | 80 | 0.19 | 5 |
| D100QS200-4,-4Y | 1000 | 200 | 22 | 41 | 1510 | 80 | 0.19 | 5 |
| D100QS225-4 | 1000 | 225 | 20 | 37 | 2200 | 80 | 0.3 | 5 |
| D100QS250-4 | 1000 | 250 | 23 | 42 | 2430 | 80 | 0.3 | 5 |
| D100QS300-4 | 1000 | 300 | 29 | 53 | 2920 | 80 | 0.3 | 5 |

Catalog numbers ending with "-4Y" are designated for metric screws

*Time Constant: L/R ≤1ms

**MBC (Minimum Breaking Capacity): Smallest current fuse has been tested to safely open at rated voltage and associated time constant

ACCESSORIES

Fuse blocks



P243C



1SC250



1SC375

| Catalog number | Item number | Rated DC voltage | Application DC Fuses | Contact Materials | Weight |
|-------------------------------------|-------------|------------------|--|-------------------|---------|
| P243 Fuse blocks | | | | | |
| P243C | P243C | 700 V | D70QS fuses from 225 to 600A | Tin-Plated Copper | 0.12 kg |
| P266 Fuse blocks | | | | | |
| P266A | P266A | 1000 V | D100QS fuses from 225 to 300A | Stainless Steel | 0.39 kg |
| 1SC/1MSC Modular Fuse blocks | | | | | |
| 1SCM8 | 1SCM8 | 1000 V | D100QS up to 200A and D70QS up to 400A | Zinc-Plated Steel | 68 g |
| 1SC250 | 1SC250 | 1000 V | D100QS up to 200A and D70QS up to 400A | Zinc-Plated Steel | 68 g |
| 1SC375 | 1SC375 | 1000 V | D100QS 225A-300A and D70QS 450A-600A | Zinc-Plated Steel | 68 g |
| 1SCM10 | 1SCM10 | 1000 V | D100QS 225A-300A and D70QS 450A-600A | Zinc-Plated Steel | 68 g |

D70QS Series aR 700VDC

700VDC, L/R ≤1ms, 20kA IR

Electrification in construction, marine, agriculture, manufacturing, mining, and other industries, in addition to transportation, is a critical trend in cleaner energy. The D70QS North American style round body high-speed fuse series is Mersen's next evolution for high-power conversion applications protection for those industries shifting to Direct Current(DC) systems today. The D70QS fuse series is specifically designed to reduce the I2t, peak let-through current, and arc voltages during fault conditions to protect applications such as battery charging systems and other DC components like relays and contactors.



FEATURES/BENEFITS:

- Lower I2t performance for improved protection of equipment
- Superior cycling ability for long, reliable life on high cyclic loading
- Low watts losses
- High Interrupting rating for optimal short circuit protection

APPLICATIONS:

- High Power battery charging and management systems protection
- Energy Storage Systems (ESS)
- Electrical Energy Storage (EES)
- Battery Disconnect Unit (BDU)
- Battery pack protection
- DC Fast-Charging station for EV applications
- Backup protection for DC relay/disconnector/switch
- Protection of 700VDC or less, UPS and inverters

APPROVALS:

- UL Recognized
UL File: E60314
DC: 50-600A, 700VDC
- Power Cycling & Vibration
- REACH/RoHS compliant

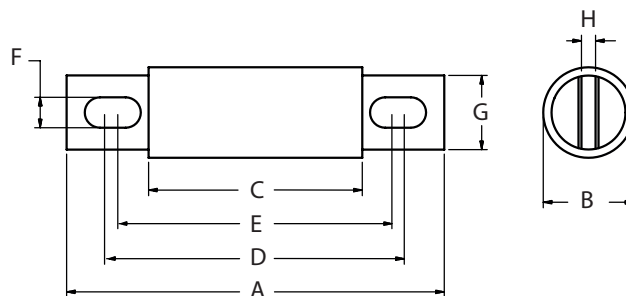


RATINGS:

- **DC:** 50-600A, 700VDC, L/R ≤1ms, 20kA IR

DIMENSIONS:

D70QS_-4 (50-600A)



| Article Number | A | B | C | D | E | F | G | H |
|----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|
| D70QS50 to 100 in (mm) | 3.63 (92.2) | 1 (25.4) | 2.13 (54.1) | 2.94 (74.7) | 2.75 (69.8) | 0.31 (7.9) | 0.50 (19) | 0.13 (3.2) |
| D70QS125 to 200 in (mm) | 3.63 (92.2) | 1.22 (31) | 2.13 (54.1) | 2.94 (74.7) | 2.81 (71.4) | 0.31 (7.9) | 1 (25.4) | 0.19 (4.8) |
| D70QS225 to 400 in (mm) | 4.34 (110) | 1.50 (38.1) | 2.09 (53.1) | 3.41 (86.6) | 2.78 (70.6) | 0.41 (10.4) | 1 (25.4) | 0.25 (6.4) |
| D70QS450 to 600 in (mm) | 4.47 (114) | 2 (50.8) | 2.22 (56.4) | 3.53 (89.7) | 2.91 (73.9) | 0.41 (10.4) | 1.5 (38.1) | 0.25 (6.4) |

D70QS Series aR 700VDC

700VDC, L/R ≤1ms, 20kA IR

PRODUCT RANGE



D70QS100-4

D70QS 50-100A Round Body Fuse

| Catalog number | Rated DC voltage | Rated current I _n | Power dissipation at 0.5 I _n | Min. breaking capacity (MBC)* | Max. time to clear MBC | Weight |
|----------------|------------------|------------------------------|---|-------------------------------|------------------------|--------|
| D70QS50-4 | 700 V | 50 A | 1.4 W | 380 A | 50 ms | 99 g |
| D70QS60-4 | 700 V | 60 A | 1.8 W | 460 A | 50 ms | 99 g |
| D70QS70-4 | 700 V | 70 A | 2.2 W | 540 A | 50 ms | 99 g |
| D70QS80-4 | 700 V | 80 A | 2.5 W | 610 A | 50 ms | 99 g |
| D70QS90-4 | 700 V | 90 A | 2.7 W | 690 A | 50 ms | 99 g |
| D70QS100-4 | 700 V | 100 A | 3.1 W | 760 A | 50 ms | 99 g |



D70QS200-4

D70QS 125-200A Round Body Fuse

| Catalog number | Rated DC voltage | Rated current I _n | Power dissipation at 0.5 I _n | Min. breaking capacity (MBC)* | Max. time to clear MBC | Weight |
|----------------|------------------|------------------------------|---|-------------------------------|------------------------|---------|
| D70QS125-4 | 700 V | 125 A | 3.8 W | 870 A | 60 ms | 0.17 kg |
| D70QS150-4 | 700 V | 150 A | 4.5 W | 1040 A | 60 ms | 0.17 kg |
| D70QS175-4 | 700 V | 175 A | 5.2 W | 1210 A | 60 ms | 0.17 kg |
| D70QS200-4 | 700 V | 200 A | 5.9 W | 1380 A | 60 ms | 0.17 kg |



D70QS400-4

D70QS 225-400A Round Body Fuse

| Catalog number | Rated DC voltage | Rated current I _n | Power dissipation at 0.5 I _n | Min. breaking capacity (MBC)* | Max. time to clear MBC | Weight |
|----------------|------------------|------------------------------|---|-------------------------------|------------------------|---------|
| D70QS225-4 | 700 V | 225 A | 6.7 W | 1190 A | 140 ms | 0.26 kg |
| D70QS250-4 | 700 V | 250 A | 7.4 W | 1320 A | 140 ms | 0.26 kg |
| D70QS300-4 | 700 V | 300 A | 8.8 W | 1580 A | 140 ms | 0.26 kg |
| D70QS350-4 | 700 V | 350 A | 10.2 W | 1840 A | 140 ms | 0.26 kg |
| D70QS400-4 | 700 V | 400 A | 11.7 W | 2100 A | 140 ms | 0.26 kg |



D70QS 450-600A Round Body Fuse

| Catalog number | Rated DC voltage | Rated current I _n | Power dissipation at 0.5 I _n | Min. breaking capacity (MBC)* | Max. time to clear MBC | Weight |
|----------------|------------------|------------------------------|---|-------------------------------|------------------------|---------|
| D70QS450-4 | 700 V | 450 A | 12.4 W | 2200 A | 360 ms | 0.52 kg |
| D70QS500-4 | 700 V | 500 A | 13.9 W | 2460 A | 360 ms | 0.52 kg |
| D70QS600-4 | 700 V | 600 A | 16.6 W | 2950 A | 360 ms | 0.52 kg |

*Time Constant: L/R ≤1ms

ACCESSORIES

D70QS600-4



P243C

Fuse blocks

| Catalog number | Item number | Rated DC voltage | Application DC Fuses | Contact Materials | Weight |
|-------------------------------------|-------------|------------------|--|-------------------|---------|
| P243 Fuse blocks | | | | | |
| P243C | P243C | 700 V | D70QS fuses from 225 to 600A | Tin-Plated Copper | 0.12 kg |
| P266 Fuse blocks | | | | | |
| P266A | P266A | 1000 V | D100QS fuses from 225 to 300A | Stainless Steel | 0.39 kg |
| 1SC/1MSC Modular Fuse blocks | | | | | |
| 1SCM8 | 1SCM8 | 1000 V | D100QS up to 200A and D70QS up to 400A | Zinc-Plated Steel | 68 g |
| 1SC250 | 1SC250 | 1000 V | D100QS up to 200A and D70QS up to 400A | Zinc-Plated Steel | 68 g |
| 1SC375 | 1SC375 | 1000 V | D100QS 225A-300A and D70QS 450A-600A | Zinc-Plated Steel | 68 g |
| 1SCM10 | 1SCM10 | 1000 V | D100QS 225A-300A and D70QS 450A-600A | Zinc-Plated Steel | 68 g |



1SC250

A high-angle, top-down view of a sleek, blue and white high-speed train traveling on a modern, elevated railway track. The train is moving away from the viewer, following the curve of the tracks. The surrounding area appears to be a construction or development site, with sandy ground, concrete barriers, and some industrial structures in the background. The lighting is bright, suggesting a clear day.

STANDARD HIGH
SPEED FUSES

A13X

Amp-Trap® Form 101, 130VAC, 100VDC; 1-6000A

A13X Amp-Trap® Form 101 High speed fuses are designed for the specific protection of diodes and other semiconductor devices rated 130VAC or less. A13X fuses are very compact relative to their ampere ratings, especially the hockey-puck type in the higher ampere ratings.

FEATURES/BENEFITS: FUSE BLOCKS

- Low I²t minimizes damage to protected components on short circuit
- Controlled arc voltage reduces stress to circuit components during fuse clearing
- Choice of mounting types helps in equipment design

| Current Rating I _n (A) | Catalog No. | Pole |
|-----------------------------------|------------------|------|
| 1-30 | 30311 | 1 |
| 31-60 | 60306J | 1 |
| 61-100 | P243D | 1 |
| 101-200 | P243D | 1 |
| 201-450 | P243D | 1 |
| 500-600 | P243G | 1 |
| 70-400 | 1SC250 or 1SCM8 | |
| 450-800 | 1SC375 or 1SCM10 | |

See Fusegear section for product details.



RATINGS:

- **AC:** 1-25A, 130VAC, 8kA IR; 70-250A, 130VAC, 7.9kA IR
- **DC:** 70-2000A, 100VDC, 10kA IR, L/R≤10ms; 2500-3000A, 100VDC, 20kA IR, L/R≤10ms

APPLICATIONS:

- Protection of heavy-duty devices such as electrochemical rectifiers

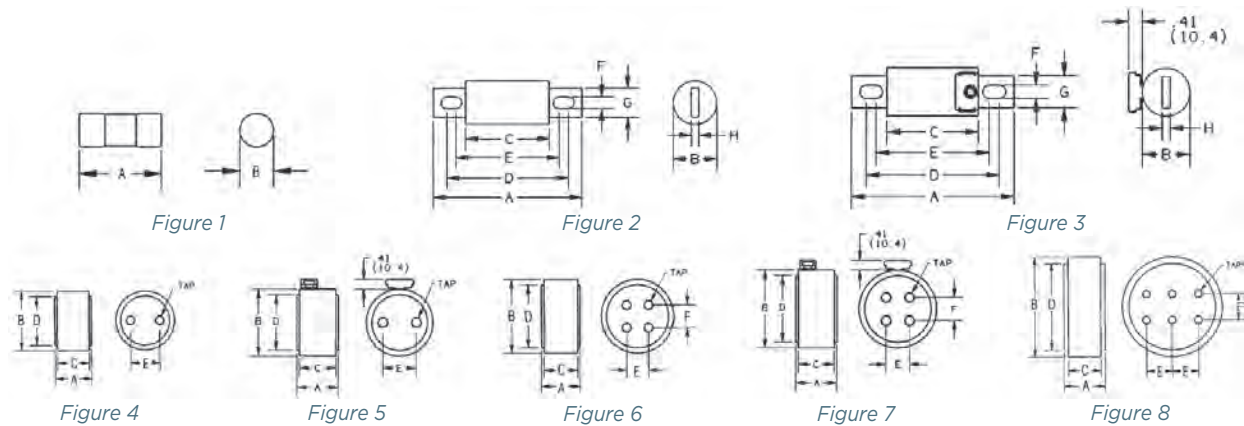
APPROVALS:

- UL Recognized Component File # E60314
- AC: 1-25A, 130VAC, 70-250A, 130VAC
- DC: 70-2000A, 100VDC, 2500-3000A, 100VDC



DIMENSIONS:

| Outline Ref. | Mounting Type | Fig. | Dimensions - Inches (mm) | | | | | | | | Tap | |
|------------------|---------------|-------|--------------------------|------------|------------|------------|------------|------------|------------|-----------|-----|-----------------|
| | | | A | B | C | D | E | F | G | H | | |
| A13X1 to 30 | 2 | 1 | 1.5(38.1) | 0.41(10.4) | - | - | - | - | - | - | - | - |
| A13X35 to 60 | 1 | 1 | 2(50.8) | 0.81(20.6) | - | - | - | - | - | - | - | - |
| A13X70 to 450 | 4, 4TA* | 2, 3* | 2.66(67.6) | 1.13(28.7) | 1.16(29.5) | 2.19(55.6) | 1.91(48.5) | 0.31(7.9) | 0.88(22.4) | 0.19(4.8) | - | - |
| A13X500 to 1000 | 4, 4TA* | 2, 3* | 3.5(88.9) | 1.5(38.1) | 1.25(31.8) | 2.56(65) | 1.94(49.3) | 0.41(10.4) | 1(25.4) | 0.25(6.4) | - | - |
| A13X1000 to 2000 | 128 | 4 | 1.88(47.8) | 2(50.8) | 1.63(41.4) | 1.75(44.5) | 1(25.4) | - | - | - | - | 3/8-24-1/2 Deep |
| A13X2500 to 3000 | 128, 128TA* | 4, 5* | 1.88(47.88) | 3(76.2) | 1.63(41.4) | 2.5(63.5) | 1.5(38.1) | - | - | - | - | 1/2-20-1/2 Deep |
| A13X3500 to 4000 | 128, 128TA* | 6, 7* | 1.88(47.88) | 3.5(88.9) | 1.63(41.4) | 3(76.2) | 1.06(27) | 1.06(27) | - | - | - | 1/2-20-1/2 Deep |
| A13X5000 to 6000 | 128 | 8 | 2.38(60.5) | 5.75(146) | 1.88(47.7) | 5(127) | 1.5(38.1) | 1.5(38.1) | - | - | - | 1/2-20-1/2 Deep |



CATALOG NUMBERS:

| Catalog No. | Current Rating I _n (A) | Dimen. Fig. |
|-------------|-----------------------------------|-------------|
| A13X1-2 | 1 | 1 |
| A13X2-2 | 2 | 1 |
| A13X3-2 | 3 | 1 |
| A13X4-2 | 4 | 1 |
| A13X5-2 | 5 | 1 |
| A13X6-2 | 6 | 1 |
| A13X7-2 | 7 | 1 |
| A13X8-2 | 8 | 1 |
| A13X10-2 | 10 | 1 |
| A13X12-2 | 12 | 1 |
| A13X15-2 | 15 | 1 |
| A13X20-2 | 20 | 1 |
| A13X25-2 | 25 | 1 |
| A13X30-2 | 30 | 1 |
| A13X35-1 | 35 | 1 |
| A13X40-1 | 40 | 1 |
| A13X40-4TI | 40 | 2 |
| A13X45-1 | 45 | 1 |
| A13X50-1 | 50 | 1 |
| A13X50-4 | 50 | 2 |
| A13X55-1 | 55 | 1 |
| A13X60-1 | 60 | 1 |
| A13X70-4 | 70 | 2 |
| A13X70-4TI | 70 | 2 |
| 4A13X80-4 | 80 | 2 |
| 4A13X80-4TI | 80 | 2 |
| A13X90-4 | 90 | 2 |
| A13X100-4 | 100 | 2 |
| A13X100-4TI | 100 | 2 |
| A13X130-4 | 130 | 2 |
| A13X130-4TI | 130 | 2 |
| A13X150-4 | 150 | 2 |
| A13X150-4TA | 150 | 3 |
| A13X150-4TI | 150 | 2 |
| A13X200-4 | 200 | 2 |
| A13X200-4TA | 200 | 3 |

| Catalog No. | Current Rating I _n (A) | Dimen. Fig. |
|----------------|-----------------------------------|-------------|
| A13X250-4 | 250 | 2 |
| A13X250-4TI | 250 | 2 |
| A13X300-4 | 300 | 2 |
| A13X300-4TA | 300 | 3 |
| A13X300-4TI | 300 | 2 |
| A13X350-4 | 350 | 2 |
| A13X350-4TI | 350 | 2 |
| A13X400-4 | 400 | 2 |
| A13X400-4TA | 400 | 3 |
| A13X400-4TI | 400 | 2 |
| A13X450-4 | 450 | 2 |
| A13X450-4TA | 450 | 3 |
| A13X500-4 | 500 | 2 |
| A13X500-4TA | 500 | 3 |
| A13X600-4 | 600 | 2 |
| A13X600-4TA | 800 | 3 |
| A13X800-4 | 800 | 2 |
| A13X1000-4 | 1000 | 2 |
| A13X1000-4TA | 1000 | 3 |
| A13X1000-4TI | 1000 | 2 |
| A13X1000-128 | 1000 | 4 |
| A13X1000-128TA | 1000 | 5 |
| A13X1200-128 | 1200 | 4 |
| A13X1200-128TA | 1200 | 5 |
| A13X1500-128 | 1200 | 4 |
| A13X1500-128TA | 1500 | 5 |
| A13X2000-128 | 2000 | 4 |
| A13X2000-128TA | 2000 | 5 |
| A13X2500-128 | 2500 | 4 |
| A13X2500-128TA | 2500 | 5 |
| A13X3000-128 | 3000 | 4 |
| A13X3000-128TA | 3000 | 5 |
| A13X3500-128 | 3500 | 6 |
| A13X4000-128 | 4000 | 6 |
| A13X4000-128TA | 4000 | 7 |
| A13X5000-128 | 5000 | 8 |
| A13X6000-128 | 6000 | 8 |

For ampere ratings and styles not listed, contact Technical Services at 978-465-4853 or TechnicalServices.EP@mersen.com.

A15QS

Amp-Trap® Form 101, 150VAC/VDC; 1-6000A

A15QS Amp-Trap® Form 101 high speed fuses are designed for the specific protection of diodes and other semiconductor devices rated 150VAC/DC. The A15QS product line's compact design is perfect for those applications with limited available space.

FEATURES/BENEFITS: FUSE BLOCKS:

- **Low I²t minimizes** damage to protected components on short circuit
- **Controlled arc voltage** reduces stress to circuit components during fuse clearing
- **Choice of mounting types** provides options for unique termination requirements

| Current Rating I _n (A) | Catalog No. | Poles |
|-----------------------------------|------------------|-------|
| 1-30 | 30311 | 1 |
| 31-60 | U71006 | 1 |
| 500-600 | P243G | 1 |
| 40-450 | P243D | 1 |
| 20-400 | 1SC250 or 1SCM8 | 1 |
| 450-800 | 1SC375 or 1SCM10 | 1 |

See Fusegear section for product details.



RATINGS:

- **AC:** 1-6000A, 150VAC, 100kA IR
- **DC:** 1-4000A, 150VDC, 50kA IR, L/R≤10ms

APPLICATIONS:

- Protection of heavy duty devices such as electrochemical rectifiers

APPROVALS:

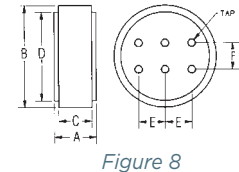
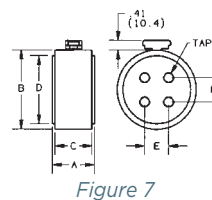
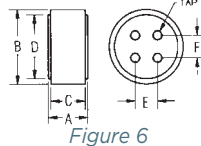
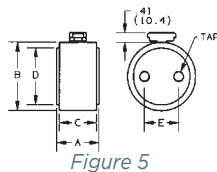
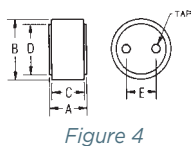
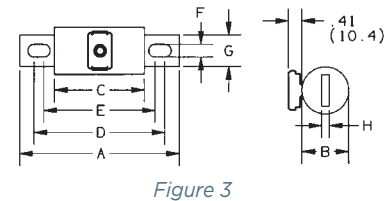
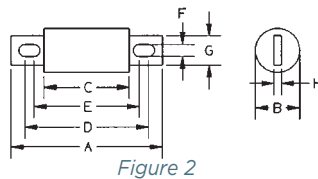
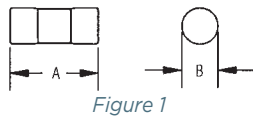
- UL Recognized Component
UL File E60314
- AC: 1-4000A, 150VAC
- DC: 1-4000A, 150VDC



DIMENSIONS:

| Outline Ref. | Mounting Type | Fig. | Dimensions - Inches (mm) | | | | | | | | | Tap |
|-------------------|---------------|-------|--------------------------|------------|------------|------------|------------|------------|------------|------------|---|-----------------|
| | | | A | B | C | D | E | F | G | H | | |
| A15QS1 to 30 | 2 | 1 | 1.50(38.1) | 0.41(10.4) | - | - | - | - | - | - | - | - |
| 15QS35 to 60 | 1 | 1 | 2.00(50.8) | 0.81(20.6) | - | - | - | - | - | - | - | - |
| A15QS20 to 450 | 4, 4TI*, 4IL* | 2, 3* | 2.66(67.6) | 1.00(25.4) | 1.16(29.5) | 2.19(55.6) | 1.88(47.6) | 0.31(7.9) | 0.74(18.8) | 0.125(3.2) | - | - |
| A15QS500 to 1000 | 4, 4TI*, 4IL* | 2, 3* | 3.50(88.9) | 1.50(38.1) | 1.25(31.8) | 2.56(65.0) | 1.94(49.3) | 0.41(10.4) | 1.00(25.4) | 0.25(6.4) | - | - |
| A15QS750 to 2000 | 128, 128IL | 4, 5* | 1.88(47.8) | 2.00(50.8) | 1.63(41.4) | 1.75(44.5) | 1.00(25.4) | - | - | - | - | 3/8-24-1/2 Deep |
| A15QS2500 to 3000 | 128, 128IL | 4, 5* | 1.88(47.88) | 3.00(76.2) | 1.63(41.4) | 2.50(63.5) | 1.50(38.1) | - | - | - | - | 1/2-20-1/2 Deep |
| A15QS3500 to 4000 | 128, 128IL | 6, 7* | 1.88(47.88) | 3.50(88.9) | 1.63(41.4) | 3.00(76.2) | 1.06(27.0) | 1.06(27.0) | - | - | - | 1/2-20-1/2 Deep |
| A15QS4500 to 6000 | 128 | 8 | 2.38(60.5) | 5.75(146) | 1.88(47.7) | 5.00(127) | 1.50(38.1) | 1.50(38.1) | - | - | - | 1/2-20-1/2 Deep |

* Optional Trigger Indicator (TI) and/or (IL) indicator.



A15QS

Amp-Trap® Form 101, 150VAC/VDC; 1-6000A

CATALOG NUMBERS:

| Catalog No. | Current Rating I_n (A) | Dimen. Fig. |
|--------------|--------------------------|-------------|
| A15QS1-2 | 1 | 1 |
| A15QS2-2 | 2 | 1 |
| A15QS3-2 | 3 | 1 |
| A15QS4-2 | 4 | 1 |
| A15QS5-2 | 5 | 1 |
| A15QS6-2 | 6 | 1 |
| A15QS7-2 | 7 | 1 |
| A15QS8-2 | 8 | 1 |
| A15QS10-2 | 10 | 1 |
| A15QS12-2 | 12 | 1 |
| A15QS15-2 | 15 | 1 |
| A15QS20-2 | 20 | 1 |
| A15QS25-2 | 25 | 1 |
| A15QS30-2 | 30 | 1 |
| A15QS35-1 | 35 | 1 |
| A15QS40-1 | 40 | 1 |
| A15QS40-4TI | 40 | 2 |
| A15QS45-1 | 45 | 1 |
| A15QS50-1 | 50 | 1 |
| A15QS50-4 | 50 | 2 |
| A15QS60-1 | 60 | 1 |
| A15QS70-4 | 70 | 2 |
| A15QS70-4TI | 70 | 2 |
| A15QS80-4 | 80 | 2 |
| A15QS80-4TI | 80 | 2 |
| A15QS90-4 | 90 | 2 |
| A15QS100-4 | 100 | 2 |
| A15QS100-4TI | 100 | 2 |
| A15QS130-4 | 130 | 2 |
| A15QS130-4TI | 130 | 2 |
| A15QS150-4 | 150 | 2 |
| A15QS150-4IL | 150 | 3 |
| A15QS150-4TI | 150 | 2 |
| A15QS175-4TI | 175 | 2 |
| A15QS200-4 | 200 | 2 |
| A15QS200-4IL | 200 | 3 |
| A15QS250-4 | 250 | 2 |
| A15QS250-4TI | 250 | 2 |

| Catalog No. | Current Rating I_n (A) | Dimen. Fig. |
|-----------------|--------------------------|-------------|
| A15QS300-4 | 300 | 2 |
| A15QS300-4IL | 300 | 2 |
| A15QS300-4IL | 300 | 3 |
| A15QS350-4 | 350 | 2 |
| A15QS350-4TI | 350 | 2 |
| A15QS400-4 | 400 | 2 |
| A15QS400-4IL | 400 | 3 |
| A15QS400-4TI | 400 | 2 |
| A15QS450-4 | 450 | 2 |
| A15QS450-4IL | 450 | 3 |
| A15QS500-4 | 500 | 2 |
| A15QS500-4IL | 500 | 3 |
| A15QS600-4 | 600 | 2 |
| A15QS600-4IL | 600 | 3 |
| A15QS700-4 | 700 | 2 |
| A15QS800-4 | 800 | 2 |
| A15QS1000-4 | 1000 | 2 |
| A15QS1000-4IL | 1000 | 3 |
| A15QS1000-4TI | 1000 | 2 |
| A15QS1000-128 | 1000 | 4 |
| A15QS1000-128IL | 1000 | 5 |
| A15QS1200-128 | 1200 | 4 |
| A15QS1200-128IL | 1200 | 5 |
| A15QS1500-128 | 1200 | 4 |
| A15QS1500-128IL | 1500 | 5 |
| A15QS2000-128 | 2000 | 4 |
| A15QS2000-128IL | 2000 | 5 |
| A15QS2500-128 | 2500 | 4 |
| A15QS2500-128IL | 2500 | 5 |
| A15QS3000-128 | 3000 | 4 |
| A15QS3000-128IL | 3000 | 5 |
| A15QS3500-128 | 3500 | 6 |
| A15QS4000-128 | 4000 | 6 |
| A15QS4000-128IL | 4000 | 7 |
| A15QS4500-128 | 4500 | * |
| A15QS4500-128IR | 4500 | * |
| A15QS5000-128 | 5000 | 8 |
| A15QS6000-128 | 6000 | 8 |

For ampere ratings and styles not listed, contact Technical Services at 978-465-4853 or TechnicalServices.EP@mersen.com.

A25X

Amp-Trap® Form 101, 250-300VAC; 10-4500A

A25X Amp-Trap® Form 101 High speed fuses are designed for heavy duty rectifiers such as those used in the electro-chemical industry. Originally designed for diode protection, A25X fuses have been particularly reliable in heavy duty applications of many types.

FEATURES/BENEFITS: FUSE BLOCKS:

- Low I²t minimizes damage to protected components on short circuit
- Controlled arc voltage reduces stress to circuit components during fuse clearing
- Choice of mounting types helps in equipment design

| Current Rating I _n [A] | Catalog No. | Poles |
|-----------------------------------|------------------|-------|
| 1-30 | 20306 | 1 |
| 31-60 | P243G | 1 |
| 61-100 | P243 | 1 |
| 101-200 | P243 | 1 |
| 201-400 | P243G | 1 |
| 401-700 | P243G | 1 |
| 35-400 | 1SC250 or 1SCM8 | 1 |
| 450-800 | 1SC375 or 1SCM10 | 1 |

See Fusegear section for product details.



RATINGS:

- **AC:** 10-30VAC, 300VAC, 50kA IR
35-60A, 250VAC, 100kA IR
70-250A, 250VAC, 10,600 A IR
300-4500A, 250VAC

APPLICATIONS:

- Protection of heavy-duty rectifiers and similar heavy power supplies

APPROVALS:

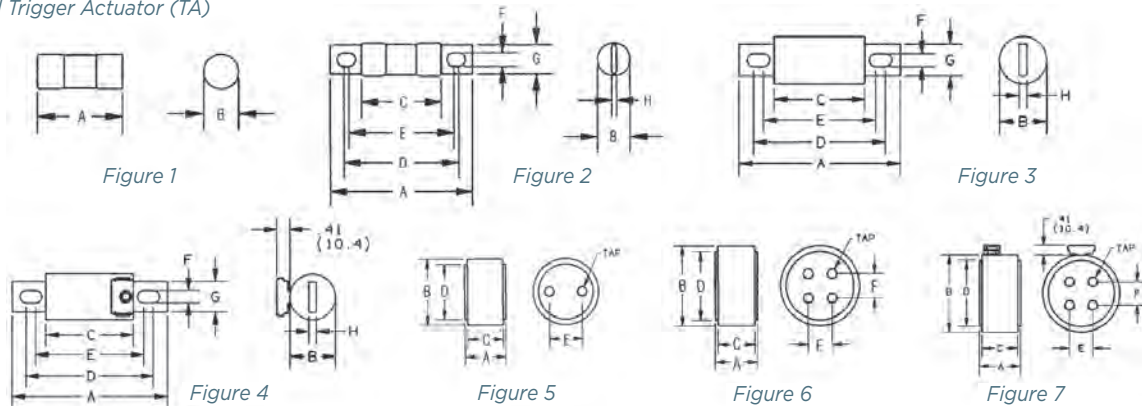
- UL Recognized Component
UL File E60314
- AC: 1-30A, 300VAC
35-60A, 250VAC
70-250A, 250VAC



DIMENSIONS:

| Outline Ref. | Mounting Type | Fig. | Dimensions - Inches (mm) | | | | | | | | Tap | |
|------------------|---------------|-------|--------------------------|------------|------------|------------|------------|------------|------------|-----------|-----|-----------------|
| | | | A | B | C | D | E | F | G | H | | |
| A25X1 to 30 | 1 | 1 | 2(50.8) | 0.56(14.2) | - | - | - | - | - | - | - | - |
| A25X35 to 60 | 4 | 1 | 3.19(81.0) | 0.81(20.6) | 1.63(41.4) | 2.50(63.5) | 2.25(57.5) | 0.34(8.6) | 0.72(18.3) | 0.13(3.3) | - | - |
| A25X70 to 200 | 4 | 3 | 3.13(79.56) | 1.22(31.0) | 1.63(41.4) | 2.44(62) | 2.31(58.7) | 0.31(7.9) | 1.00(25.4) | 0.19(4.8) | - | - |
| A25X225 to 700 | 4, 4TA* | 3, 4* | 3.84(97.5) | 1.5(38.1) | 1.59(40.4) | 2.91(73.9) | 2.28(57.9) | 0.41(10.4) | 1.00(25.4) | 0.25(6.4) | - | - |
| A25X800 | 4, 4TA* | 3, 4* | 3.84(97.5) | 2(50.8) | 1.59(41.4) | 2.91(73.9) | 2.28(57.9) | 0.41(10.4) | 1.50(38.1) | 0.25(6.4) | - | - |
| A25X700 to 1200 | 128 | 5 | 2.59(65.8) | 3(76.2) | 2.34(59.4) | 2.5(63.5) | 1.5(38.1) | - | - | - | - | 3/8-24-1/2 Deep |
| A25X1500 to 2500 | 128, 128TA* | 6, 7* | 2.59(65.8) | 3.5(88.9) | 2.34(59.4) | 3.00(76.2) | 1.5(38.1) | 1.5(38.1) | - | - | - | 3/8-24-1/2 Deep |
| A25X3000 to 4500 | 128, 128TA* | 6, 7* | 2.59(65.8) | 4.5(114) | 2.34(59.4) | 3.75(95.3) | 1.5(38.1) | 1.5(38.1) | - | - | - | 1/2-20-1/2 Deep |

* Optional Trigger Actuator (TA)



CATALOG NUMBERS:

| Catalog No. | Current Rating I _n (A) | Dimen. Fig. |
|-------------|-----------------------------------|-------------|
| A25X1-1 | 1 | 1 |
| A25X2-1 | 2 | 1 |
| A25X3-1 | 3 | 1 |
| A25X4-1 | 4 | 1 |
| A25X5-1 | 5 | 1 |
| A25X6-1 | 6 | 1 |
| A25X7-1 | 7 | 1 |
| A25X8-1 | 8 | 1 |
| A25X9-1 | 9 | 1 |
| A25X10-1 | 10 | 1 |
| A25X12-1 | 12 | 1 |
| A25X15-1 | 15 | 1 |
| A25X20-1 | 20 | 1 |
| A25X25-1 | 25 | 1 |
| A25X30-1 | 30 | 1 |
| A25X35-4 | 35 | 2 |
| A25X40-4 | 40 | 2 |
| A25X50-4 | 50 | 2 |
| A25X60-4 | 60 | 2 |
| A25X70-4 | 70 | 3 |
| A25X80-4 | 80 | 3 |
| A25X90-4 | 90 | 3 |
| A25X100-4 | 100 | 3 |
| A25X100-4TA | 100 | 4 |
| A25X100-4TI | 100 | 3 |
| A25X125-4 | 125 | 3 |
| A25X130-4 | 130 | 3 |
| A25X150-4 | 150 | 3 |
| A25X150-4TA | 150 | 4 |
| A25X150-4TI | 150 | 3 |
| A25X175-4 | 175 | 3 |
| A25X200-4 | 200 | 3 |
| A25X200-4TA | 200 | 4 |
| A25X200-4TI | 200 | 3 |
| A25X225-4 | 225 | 3 |
| A25X250-4 | 250 | 3 |
| A25X250-4TI | 250 | 3 |

| Catalog No. | Current Rating I _n (A) | Dimen. Fig. |
|----------------|-----------------------------------|-------------|
| A25X300-4 | 300 | 3 |
| A25X300-4TA | 300 | 4 |
| A25X300-4TI | 300 | 3 |
| A25X350-4 | 350 | 3 |
| A25X400-4 | 400 | 3 |
| A25X400-4TA | 400 | 4 |
| A25X400-4TI | 400 | 3 |
| A25X450-4 | 450 | 3 |
| A25X500-4 | 500 | 3 |
| A25X500-4TA | 500 | 4 |
| A25X500-4TI | 500 | 3 |
| A25X550-4 | 550 | 3 |
| A25X600-4 | 600 | 3 |
| A25X600-4TA | 600 | 4 |
| A25X600-4TI | 600 | 3 |
| A25X700-4 | 700 | 3 |
| A25X700-128 | 700 | 5 |
| A25X800-4 | 800 | 3 |
| A25X800-4TA | 800 | 4 |
| A25X800-128 | 800 | 5 |
| A25X1000-128 | 1000 | 5 |
| A25X1200-128 | 1200 | 5 |
| A25X1500-128 | 1500 | 6 |
| A25X1500-128TA | 1500 | 7 |
| A25X1600-128 | 1600 | 6 |
| A25X2000-128 | 2000 | 6 |
| A25X2000-128TA | 2000 | 7 |
| A25X2500-128 | 2500 | 6 |
| A25X2500-128TA | 2500 | 7 |
| A25X3000-128 | 3000 | 6 |
| A25X3500-128 | 3500 | 6 |
| A25X3500-128TA | 3500 | 7 |
| A25X4000-128 | 4000 | 6 |
| A25X4500-128 | 4500 | 6 |

For ampere ratings and styles not listed, contact Technical Services at 978-465-4853 or TechnicalServices.EP@mersen.com.

A30QS

Amp-Trap® Form 101, 300VAC/DC; 1-4500A

A30QS Amp-Trap® high speed fuses are intended for the protection of Power Semiconductors such as diodes, phase control SCRs and other power semiconductor devices. The A30QS is recommended for new applications.

FEATURES/BENEFITS: FUSE BLOCKS:

- Low I²t minimizes damage to protected component on short circuit
- Controlled arc voltage reduces stress to circuit components during fuse clearing
- Choice of mounting types helps in equipment design

| Current Rating I _n [A] | Catalog No. | Poles |
|-----------------------------------|------------------|-------|
| 1-30 | 70316+US14 | 1 |
| 31-60 | P243G | 1 |
| 61-100 | P243 | 1 |
| 101-200 | P243 | 1 |
| 401-600 | P243G | 1 |
| 700-800 | 1SC375 | 1 |
| 35-400 | 1SC250 or 1SCM8 | 1 |
| 450-800 | 1SC375 or 1SCM10 | 1 |

See Fusegear section for product details.



RATINGS:

- **AC:** 1-4500A, 300VAC, 200kA IR
- **DC:** 1 to 4500A, 300VDC, 100kA IR, L/R≤10ms

APPLICATIONS:

- Protection of heavy duty rectifiers and similar heavy duty power supplies

APPROVALS:

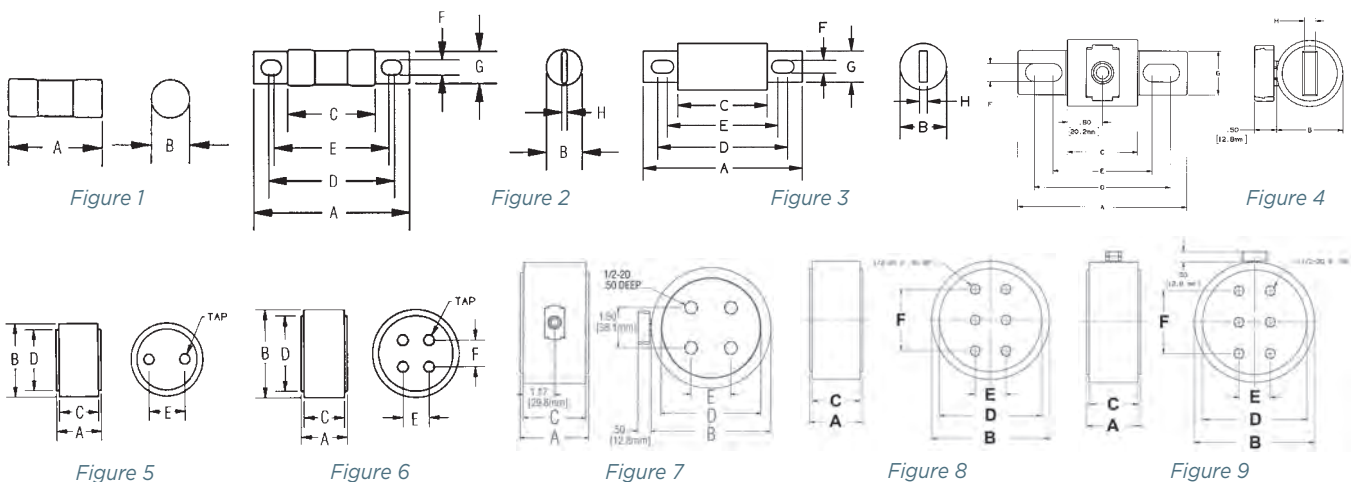
- UL Recognized Component
UL File E60314
- AC: 1-4500A, 300VAC
- DC: 1-4500A, 300VDC



DIMENSIONS:

| Outline Ref. | Mounting Type | Fig. | Dimensions - Inches (mm) | | | | | | | | | Tap |
|-------------------|---------------|-------|--------------------------|-----------|----------|----------|----------|----------|----------|---------|---------------------|-----|
| | | | A | B | C | D | E | F | G | H | | |
| A30QS1 to 30 | 1 | 1 | 2.00(51) | 0.56(14) | - | - | - | - | - | - | - | - |
| A30QS35 to 60 | 4 | 2 | 3.19(81) | 0.83(21) | 1.63(41) | 2.50(64) | 2.25(58) | 0.34(9) | .72(18) | 0.13(3) | - | - |
| A30QS70 to 200 | 4 | 3 | 3.13(80) | 1.22(31) | 1.63(41) | 2.44(62) | 2.19(55) | 0.31(8) | .75(31) | 0.19(5) | - | - |
| A30QS225 to 700 | 4, 4IL* | 3, 4* | 3.84(98) | 1.50(38) | 1.59(40) | 3.10(74) | 2.28(58) | 0.41(10) | 1.00(25) | 0.25(6) | - | - |
| A30QS700 to 1200 | 128 | 5 | 2.59(66) | 3.00(76) | 2.34(59) | 2.50(64) | 1.50(38) | - | - | - | 3/8-24-1/2 Deep (2) | - |
| A30QS1500 to 2500 | 128, 128IL* | 6, 7* | 2.59(66) | 3.50(76) | 2.34(59) | 3.00(64) | 1.50(38) | 1.50(38) | - | - | 3/8-24-1/2 Deep (4) | - |
| A30QS3000 to 4500 | 128, 128IL* | 6, 7* | 2.59(66) | 4.50(114) | 2.34(59) | 3.75(95) | 1.50(38) | 1.50(38) | - | - | 1/2-20-1/2 Deep (4) | - |
| A30QS5000 to 6000 | 128, 128IL* | 8, 9* | 2.58(65.6) | 5.75(146) | 2.34(59) | 5(127) | 1.50(38) | 3(76.2) | - | - | 1/2-20-1/2 Deep (6) | - |

* Optional (IL) indicator.



A30QS

Amp-Trap® Form 101, 300VAC/DC; 1-4500A

CATALOG NUMBERS:

| Catalog No. | Current Rating I_n (A) | Dimen. Fig. |
|--------------|--------------------------|-------------|
| A30QS1-1 | 1 | 1 |
| A30QS2-1 | 2 | 1 |
| A30QS3-1 | 3 | 1 |
| A30QS4-1 | 4 | 1 |
| A30QS5-1 | 5 | 1 |
| A30QS6-1 | 6 | 1 |
| A30QS7-1 | 7 | 1 |
| A30QS8-1 | 8 | 1 |
| A30QS10-1 | 10 | 1 |
| A30QS12-1 | 12 | 1 |
| A30QS15-1 | 15 | 1 |
| A30QS20-1 | 20 | 1 |
| A30QS25-1 | 25 | 1 |
| A30QS30-1 | 30 | 1 |
| A30QS35-4 | 35 | 2 |
| A30QS40-4 | 40 | 2 |
| A30QS50-4 | 50 | 2 |
| A30QS60-4 | 60 | 2 |
| A30QS70-4 | 70 | 3 |
| A30QS80-4 | 80 | 3 |
| A30QS90-4 | 90 | 3 |
| A30QS100-4 | 100 | 3 |
| A30QS100-4TI | 100 | 3 |
| A30QS125-4 | 125 | 3 |
| A30QS130-4 | 130 | 3 |
| A30QS150-4 | 150 | 3 |
| A30QS150-4TI | 150 | 3 |
| A30QS175-4 | 175 | 3 |
| A30QS200-4 | 200 | 3 |
| A30QS200-4TI | 200 | 3 |
| A30QS225-4 | 225 | 3 |
| A30QS250-4 | 250 | 3 |
| A30QS250-4TI | 250 | 3 |

| Catalog No. | Current Rating I_n (A) | Dimen. Fig. |
|-----------------|--------------------------|-------------|
| A30QS300-4 | 300 | 3 |
| A30QS300-4TI | 300 | 3 |
| A30QS350-4 | 350 | 3 |
| A30QS400-4 | 400 | 3 |
| A30QS400-4IL | 400 | 4 |
| A30QS400-4TI | 400 | 3 |
| A30QS450-4 | 450 | 3 |
| A30QS500-4 | 500 | 3 |
| A30QS550-4 | 550 | 3 |
| A30QS600-4 | 600 | 3 |
| A30QS600-4TI | 600 | 3 |
| A30QS600-4IL | 600 | 4 |
| A30QS700-4 | 700 | 4 |
| A30QS700-128 | 700 | 5 |
| A30QS800-4 | 800 | 3 |
| A30QS800-4IL | 800 | 4 |
| A30QS800-128 | 800 | 5 |
| A30QS1000-128 | 1000 | 5 |
| A30QS1000-128IL | 1000 | 5 |
| A30QS1200-128 | 1200 | 5 |
| A30QS1500-128 | 1500 | 6 |
| A30QS1500-128IL | 1500 | 7 |
| A30QS1600-128 | 1600 | 6 |
| A30QS2000-128 | 2000 | 6 |
| A30QS2000-128IL | 2000 | 7 |
| A30QS2500-128 | 2500 | 6 |
| A30QS2500-128IL | 2500 | 7 |
| A30QS3000-128 | 3000 | 6 |
| A30QS3500-128 | 3500 | 6 |
| A30QS3500-128IL | 3500 | 7 |
| A30QS4000-128 | 4000 | 6 |
| A30QS4500-128 | 4500 | 6 |

For ampere ratings and styles not listed, contact Technical Services at 978-465-4853 or TechnicalServices.EP@mersen.com.

A50P

Amp-Trap® Form 101, 500VAC, 450VDC; 10-1600A

A50P Amp-Trap® Form 101 high speed fuses are developed for DC drives, uninterruptable power supplies and similar applications requiring better protection (lower I²t) and superior reliability. The A50P is typically used for replacement.

FEATURES/BENEFITS: FUSE BLOCKS:

- Low I²t minimizes damage to protected components on short circuit
- Controlled arc voltage reduces stress to circuit components during fuse clearing
- Choice of mounting types helps in equipment design

| Current Rating I _n (A) | Mounting Type | Catalog No. | Poles |
|-----------------------------------|---------------|------------------|-------|
| 10-30 | 1 | 70316 | 1 |
| 35-60 | 4 | P243G | 1 |
| 70-200 | 4 | P243E | 1 |
| 225-600 | 4 | P266C | 1 |
| 900-1000 | 4 | FH50F5 | 1 |
| 35-400 | 4 | 1SC250 or 1SCM8 | 1 |
| 450-800 | 4 | 1SC375 or 1SCM10 | 1 |

See Fusegear section for product details.



RATINGS:

- **AC:** 10-1200A, 500VAC, 100kA
1400-1600A, 500VAC
- **DC:** 10 to 800A, 450VDC,
79kA IR, L/R≤10ms
900-1200A, 500VDC,
10kA IR, L/R≤4ms

APPLICATIONS:

- Protection of DC drives, UPS and other equipment of 500 volts or less

APPROVALS:



- UL Recognized Component
UL File 60314
- AC: 10-1200A, 500VAC
- DC: 10-800A, 450VDC
900-1200A, 500VDC

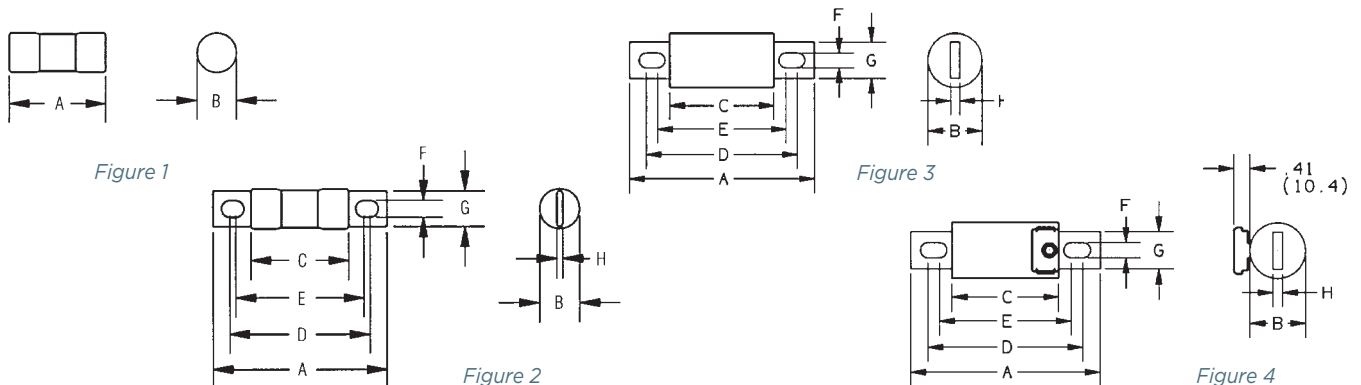
DIMENSIONS (CONT. ON NEXT PAGE):

| Outline Ref. | Mounting Type | Fig. | Dimensions - Inches (mm) | | | | | | | | |
|----------------|---------------|--------|--------------------------|------------|------------|------------|------------|------------|------------|-----------|---|
| | | | A | B | C | D | E | F | G | H | |
| A50P10 to 30 | 1 | 1 | 2.00(50.8) | 0.56(14.2) | - | - | - | - | - | - | - |
| A50P35 to 60 | 1DS* | 1 | 2.25(57.2) | 0.81(20.6) | - | - | - | - | - | - | - |
| A50P35 to 60 | 4 | 2 | 3.19(81.0) | 0.81(20.6) | 1.63(41.4) | 2.50(63.5) | 2.25(57.2) | 0.348(6) | 0.72(18.3) | 0.13(3.3) | |
| A50P70 to 100 | 4 | 3 | 3.63(92.2) | 1.00(25.4) | 2.13(54.1) | 2.94(74.7) | 2.81(71.4) | 0.31(7.9) | 0.75(19.1) | 0.13(3.3) | |
| A50P125 to 200 | 4, 4TA** | 3, 4** | 3.63(92.2) | 1.22(31.0) | 2.13(54.1) | 2.94(74.7) | 2.81(71.4) | 0.31(7.9) | 1.00(25.4) | 0.19(4.8) | |
| A50P225 to 400 | 4, 4TA** | 3, 4** | 4.34(110) | 1.50(38.1) | 2.09(53.1) | 3.41(86.6) | 2.78(70.6) | 0.41(10.4) | 1.00(25.4) | 0.25(6.4) | |
| A50P450 to 600 | 4, 4TA** | 3, 4** | 4.47(114) | 2.00(50.8) | 2.22(56.4) | 3.53(89.7) | 2.91(73.9) | 0.41(10.4) | 1.50(38.1) | 0.25(6.4) | |
| A50P700 to 800 | 4, 4TA** | 3, 4** | 6.47(164) | 2.50(63.5) | 2.22(56.4) | 4.63(118) | 4.31(109) | 0.53(13.5) | 2.00(50.8) | 0.38(9.7) | |

* Use with 60306J fuse block

** Optional Trigger Actuator (TA)

*** Mounting hole is round, diameter F



A50P

Amp-Trap® Form 101, 500VAC, 450VDC; 10-1600A

DIMENSIONS (CONT. FROM PREVIOUS PAGE):

| Outline Ref. | Mounting Type | Fig. | Dimensions - Inches (mm) | | | | | | | | | | |
|------------------|---------------|------|--------------------------|-----------------|----------------|---------------|-----------------|----------------|----------------|----------------|-----------------|----------------|-----------------|
| | | | A | B | C | D | E | F | G | H | J | K | L |
| A50P900 to 1200 | 4 | 3 | 6.97 (177) | 3.00 (76.2) | 3.22 (81.8) | 4.97 (126) | *** | 0.63 (16.0) | 2.38 (60.5) | 0.44 (11.1) | - | - | - |
| A50P1400 to 1600 | 4 | 5 | 10.22 (259.6) | 4.38 (111.1) | 3.22 (81.8) | 6.22 (158) | 5.22 (132.6) | 1.75 (44.5) | 3.5 (88.9) | 0.75 (9.1) | 8.72 (221.5) | 1.62 (41.2) | 8.97 (227.8) |

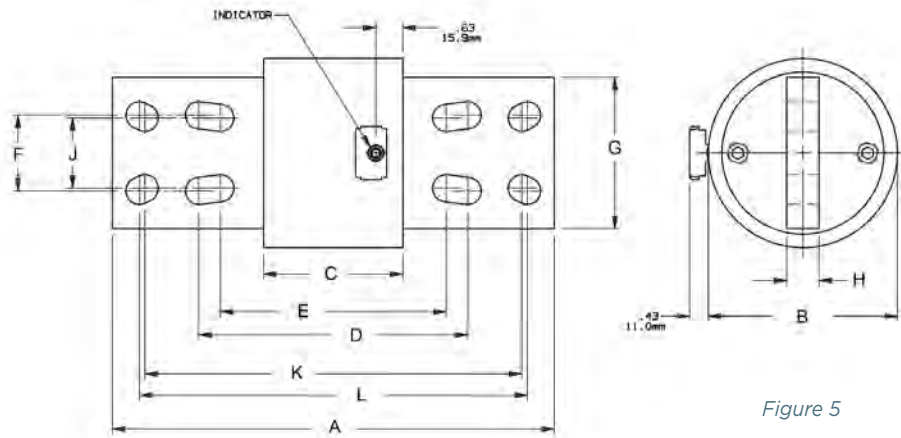


Figure 5

CATALOG NUMBERS:

| Catalog No. | Current Rating I _n (A) | Dimen. Fig. |
|-------------|-----------------------------------|-------------|
| A50P10-1 | 10 | 1 |
| A50P15-1 | 15 | 1 |
| A50P20-1 | 20 | 1 |
| A50P25-1 | 25 | 1 |
| A50P30-1 | 30 | 1 |
| A50P35-4 | 35 | 2 |
| A50P40-4 | 40 | 2 |
| A50P50-4 | 50 | 2 |
| A50P60-4 | 60 | 2 |
| A50P70-4 | 70 | 3 |
| A50P80-4 | 80 | 3 |
| A50P90-4 | 90 | 3 |
| A50P100-4 | 100 | 3 |
| A50P100-4TI | 100 | 3 |
| A50P125-4 | 125 | 3 |
| A50P125-4TA | 125 | 4 |
| A50P125-4TI | 125 | 3 |
| A50P150-4 | 150 | 3 |
| A50P150-4TI | 150 | 3 |
| A50P175-4 | 175 | 3 |
| A50P175-4TI | 175 | 3 |

| Catalog No. | Current Rating I _n (A) | Dimen. Fig. |
|-------------|-----------------------------------|-------------|
| A50P200-4 | 200 | 3 |
| A50P200-4TA | 200 | 4 |
| A50P200-4TI | 200 | 3 |
| A50P225-4 | 225 | 3 |
| A50P250-4 | 250 | 3 |
| A50P250-4TA | 250 | 4 |
| A50P250-4TI | 250 | 3 |
| A50P275-4 | 275 | 3 |
| A50P300-4 | 300 | 3 |
| A50P300-4TA | 300 | 4 |
| A50P300-4TI | 300 | 3 |
| A50P325-4 | 325 | 3 |
| A50P350-4 | 350 | 3 |
| A50P350-4TI | 350 | 3 |
| A50P400-4 | 400 | 3 |
| A50P400-4TA | 400 | 4 |
| A50P400-4TI | 400 | 3 |
| A50P450-4 | 450 | 3 |
| A50P450-4TI | 450 | 3 |
| A50P500-4 | 500 | 3 |
| A50P500-4TI | 500 | 3 |

| Catalog No. | Current Rating I _n (A) | Dimen. Fig. |
|--------------|-----------------------------------|-------------|
| A50P600-4 | 600 | 3 |
| A50P600-4TA | 600 | 4 |
| A50P600-4TI | 600 | 3 |
| A50P700-4 | 700 | 3 |
| A50P700-4TA | 700 | 4 |
| A50P700-4TI | 700 | 3 |
| A50P800-4 | 800 | 3 |
| A50P800-4TA | 800 | 4 |
| A50P800-4TI | 800 | 3 |
| A50P900-4 | 900 | 3 |
| A50P1000-4 | 1000 | 3 |
| A50P1000-4TI | 1000 | 3 |
| A50P1200-4 | 1200 | 3 |
| A50P1200-4TI | 1200 | 3 |
| A50P1400-4 | 1400 | 5 |
| A50P1400-4TA | 1400 | 5 |
| A50P1500-4 | 1500 | 5 |
| A50P1600-4 | 1600 | 5 |
| A50P1600-4TI | 1600 | 5 |
| A50P1600-4TA | 1600 | 5 |

For ampere ratings and styles not listed, contact Technical Services at 978-465-4853 or TechnicalServices.EP@mersen.com.

A50QS

Amp-Trap® Form 101, 500VAC/DC; 35-1200A

A50QS Amp-Trap® Form 101 fuses grew out of the need to improve the overall performance of high speed fuses in response to new equipment requirements. The A50QS encompasses the best protection features – lower I²t to provide better protection for equipment, longer life when subjected to cyclic loading and lower watts loss. A50QS is today's best choice for the protection of dynamic solid state equipment such as motor drives, inverters, UPS, etc.



FEATURES/BENEFITS: FUSE BLOCKS:

- Lowest I²t for greatest protection of semiconductor circuits
- Low watts loss for cooler operation
- Superior cycling ability gives an equipment design advantage
- Ultra compact sizes allow down-sizing of existing equipment

| Current Rating I _n (A) | Mounting Type | Catalog No. | Poles |
|-----------------------------------|---------------|------------------|-------|
| 35-200 | 4 | P243E | 1 |
| 225-600 | 4 | P266C | 1 |
| 900-1000 | 4 | FH50F5* | 1 |
| 35-400 | 4 | 1SC250 or 1SCM8 | 1 |
| 450-800 | 4 | 1SC375 or 1SCM10 | 1 |

*(not UL)

See Fusegear section for product details.

RATINGS:

- **AC:** 35-1200A, 500VAC, 200kA IR
- **DC:** 35-1200A, 500VDC, 87kA IR, L/R≤10ms

APPLICATIONS:

- Protection of 500V or less motor drives, UPS, inverters, etc.

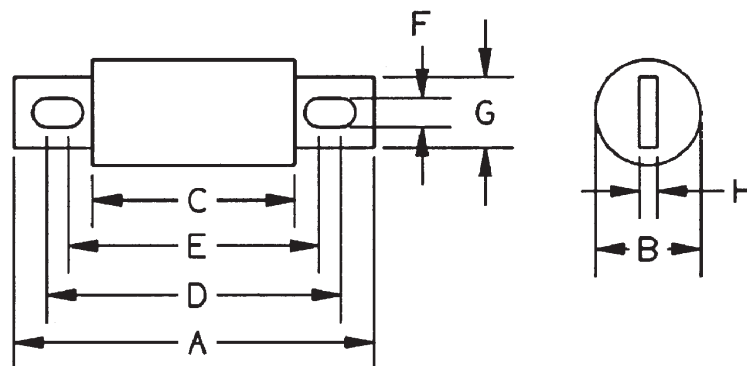
APPROVALS:

- UL Recognized Component
UL File 60314
- CSA Certified LR12636
- AC: 35-1200A, 500VAC
- DC: 35-1200A, 500VDC



DIMENSIONS:

| Catalog Number | Mounting Type | Dimensions - Inches (mm) | | | | | | | |
|------------------|---------------|--------------------------|------------|------------|-------------|-------------|------------|------------|-----------|
| | | A | B | C | D | E | F | G | H |
| A50QS35 to 100 | 4 | 3.63(92.2) | 1.00(25.4) | 2.13(54.1) | 2.94(74.7) | 2.75(69.9) | 0.31(7.9) | 0.75(19.1) | 0.13(3.3) |
| A50QS125 to 200 | 4 | 3.63(92.2) | 1.22(31.0) | 2.13(54.1) | 2.94(74.7) | 2.81(71.4) | 0.31(7.9) | 1.00(25.4) | 0.19(4.8) |
| A50QS225 to 400 | 4 | 4.34(110) | 1.50(38.1) | 2.09(53.1) | 3.41(86.6) | 2.78(70.6) | 0.41(10.4) | 1.00(25.4) | 0.25(6.4) |
| A50QS450 to 600 | 4 | 4.47(114) | 2.00(50.8) | 2.22(56.4) | 3.53(89.7) | 2.91(73.9) | 0.41(10.4) | 1.50(38.1) | 0.25(6.4) |
| A50QS700 to 800 | 4 | 6.47(164.3) | 2.38(60.3) | 2.22(56.4) | 5.00(127.0) | 3.44(87.3) | .53(13.5) | 2.00(50.8) | .38(9.8) |
| A50QS900 to 1200 | 4 | 6.97(177.0) | 2.88(76.2) | 3.22(81.8) | 5.47(138.9) | 4.47(113.5) | .63(15.9) | 2.38(60.3) | .44(11.1) |



NORTH AMERICAN STYLE

A50QS

Amp-Trap® Form 101, 500VAC/DC; 35-1200A

CATALOG NUMBERS:

| Catalog No. | Current Rating I_n (A) |
|-------------|--------------------------|
| A50QS35-4 | 35 |
| A50QS40-4 | 40 |
| A50QS50-4 | 50 |
| A50QS60-4 | 60 |
| A50QS70-4 | 70 |
| A50QS80-4 | 80 |
| A50QS90-4 | 90 |
| A50QS100-4 | 100 |
| A50QS125-4 | 125 |
| A50QS150-4 | 150 |
| A50QS175-4 | 175 |
| A50QS200-4 | 200 |
| A50QS225-4 | 225 |
| A50QS250-4 | 250 |
| A50QS300-4 | 300 |
| A50QS350-4 | 350 |
| A50QS400-4 | 400 |
| A50QS450-4 | 450 |
| A50QS500-4 | 500 |
| A50QS600-4 | 600 |
| A50QS700-4 | 700 |
| A50QS800-4 | 800 |
| A50QS900-4 | 900 |
| A50QS1000-4 | 1000 |
| A50QS1200-4 | 1200 |

For ampere ratings and styles not listed, contact Technical Services at 978-465-4853 or TechnicalServices.EP@mersen.com.

A60Q

Amp-Trap® Form 101, 600VAC/DC; 5-40A

A60Q Amp-Trap® Form 101 high speed fuses feature the only 600VAC/DC rating in the industry of similar size (1-1/2" x 13/32") fuses protecting semiconductors. A60Q also has the lowest I²t of all similar fuses and excellent cycling ability. Applications include inverters and small equipment requiring extremely fast response to faults, without the need to carry sustained heavy overloads.

FEATURES/BENEFITS:

- Lowest I²t of any fuse this size for greater protection
- Excellent cycling ability gives advantage in equipment design
- 600VAC/DC rated

FUSE HOLDERS:

| | |
|------------|-------------------------|
| USM Series | UltraSafe™ Fuse Holders |
| 303 Series | Midget Fuse Blocks |

See Fusegear section for product details.



RATINGS:

- **AC:** 5-40A, 600VAC, 200kA IR
- **DC:** 5-40A, 600VDC, 100 kA IR, L/R≤10ms

APPLICATIONS:

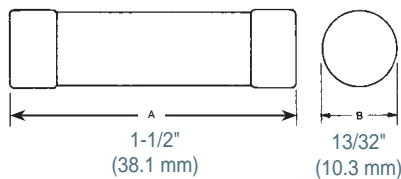
- Protection of small inverters and drives, and equipment requiring the highest degree of protection

APPROVALS:

- UL Recognized component File E60314
- AC: 5-40A, 600VAC
- DC: 5-40A, 600VDC



DIMENSIONS:



CATALOG NUMBERS:

| Catalog No. | Ampere Rating |
|-------------|---------------|
| A6005-2 | 5 |
| A6006-2 | 6 |
| A6008-2 | 8 |
| A60010-2 | 10 |
| A60012-2 | 12 |
| A60015-2 | 15 |
| A60020-2 | 20 |
| A60025-2 | 25 |
| A60030-2 | 30 |
| A60035-2 | 35 |
| A60040-2 | 40 |

For ampere ratings and styles not listed, contact Technical Services at 978-465-4853 or TechnicalServices.EP@mersen.com.

HSJ

600VAC, 1-600A/500VDC , 15-600A

The High Speed J (HSJ) fuse combines the low I²t of a semiconductor fuse and the branch circuit performance of a Class J fuse. This fuse was designed for the starting characteristics of solid state motor controllers. The HSJ can provide branch circuit protection per NEC requirements, as well as very low I²t for protection of power semiconductors.

FEATURES/BENEFITS: **RELATED PRODUCTS:**

- Optimized over-load capability to withstand elevated levels of current during electronic motor controller starts
- Low I²t (thermal energy)
- Excellent cycling ability for frequent starts/stops without nuisance opening
- Mersen certified for 600VAC, 300kA IR

| Current Rating I _n (A) | Catalog Number 600V or Less | |
|--------------------------------------|--------------------------------|--------|
| | 1-Pole | 3-Pole |
| 0-30 | US3J1I | US3J3I |
| 31-60 | US6J1I | US6J3I |
| 61-100 | 61036J | 61038J |
| 101-200 | 62001J | 62003J |
| 201-400 | 64031J | 64033J |
| 401-600 | 6631J | 6633J |

See Fusegear section for product details.



RATINGS:

- **AC:** 15-600V, 600VAC, 200kA IR
- **DC:** 15-600A, 500VDC, 100kA IR, L/R≤10ms
15-600A, 950VDC*

*Contact Tech Services for details

APPLICATIONS:

- Branch circuits
- Control panels
- Electronic motor controllers
- Phase controllers
- Drives
- Soft-starters
- Solid state relays

APPROVALS:

- UL Listed File E2137
- AC: 15-600A, 600VAC
- DC: 15-600A, 500VDC
15-600A, 950VDC*
- CSA certified to standard C22.2 no. 248.8



DIMENSIONS:

| Ampere Rating | Dimen. Fig. | A | | B | | C | | D | | E | | F | | G | | H | |
|---------------|-------------|-------|-----|--------|----|------|-----|-------|----|-------|----|-------|-----|-------|----|-------|----|
| | | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm |
| 1-30 | 1 | 2-1/4 | 57 | 13/16 | 21 | - | - | - | - | - | - | - | - | - | - | - | - |
| 31-60 | 1 | 2-3/8 | 60 | 1-1/16 | 27 | - | - | - | - | - | - | - | - | - | - | - | - |
| 61-100 | 2 | 4-4/8 | 117 | 1-1/8 | 29 | 1/8 | 3.2 | 3/4 | 19 | 1 | 25 | 3-5/8 | 92 | 3/8 | 10 | 9/32 | 7 |
| 101-200 | 2 | 5-3/4 | 146 | 1-5/8 | 41 | 3/16 | 4.8 | 1-1/8 | 29 | 1-3/8 | 35 | 4-3/8 | 111 | 3/8 | 10 | 9/32 | 7 |
| 201-400 | 2 | 7-1/8 | 181 | 2-1/8 | 54 | 1/4 | 6.3 | 1-5/8 | 41 | 1-7/8 | 48 | 5-1/4 | 133 | 17/32 | 13 | 13/32 | 10 |
| 401-600 | 2 | 8 | 203 | 2-1/2 | 64 | 3/8 | 9.5 | 2 | 51 | 2-1/8 | 54 | 6 | 152 | 11/16 | 18 | 17/32 | 13 |

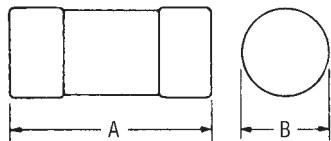


Figure 1: 1-60A

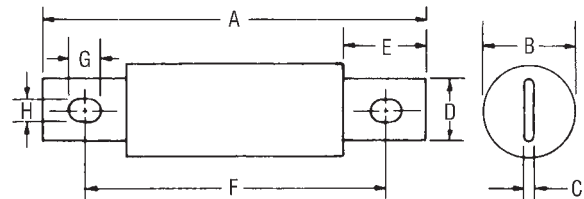


Figure 2: 61-600A

CATALOG NUMBERS:

| Catalog No. | Current Rating I_n (A) | Dimen. Fig. |
|-------------|--------------------------|-------------|
| HSJ1 | 1 | 1 |
| HSJ3 | 3 | 1 |
| HSJ6 | 6 | 1 |
| HSJ10 | 10 | 1 |
| HSJ15 | 15 | 1 |
| HSJ17-1/2 | 17-1/2 | 1 |
| HSJ20 | 20 | 1 |
| HSJ25 | 25 | 1 |
| HSJ30 | 30 | 1 |
| HSJ35 | 35 | 1 |
| HSJ40 | 40 | 1 |
| HSJ45 | 45 | 1 |
| HSJ50 | 50 | 1 |
| HSJ60 | 60 | 1 |
| HSJ70 | 70 | 2 |
| HSJ80 | 80 | 2 |
| HSJ90 | 90 | 2 |
| HSJ100 | 100 | 2 |
| HSJ110 | 110 | 2 |
| HSJ125 | 125 | 2 |
| HSJ150 | 150 | 2 |
| HSJ175 | 175 | 2 |
| HSJ200 | 200 | 2 |
| HSJ225 | 225 | 2 |
| HSJ250 | 250 | 2 |
| HSJ300 | 300 | 2 |
| HSJ350 | 350 | 2 |
| HSJ400 | 400 | 2 |
| HSJ450 | 450 | 2 |
| HSJ500 | 500 | 2 |
| HSJ600 | 600 | 2 |

A60X

Amp-Trap® Form 101, 600VAC; 1-2000A

A60X Amp-Trap® Form 101 high speed fuses are popular for the protection of higher voltage heavy rectifiers such as traction rectifiers. They can carry long sustained overloads common with heavy duty apparatus. 700A through 2000A sizes are of compact, hockey-puck design, able to provide high power protection in a small space.

FEATURES/BENEFITS: FUSE BLOCKS:

- Low I²t minimizes damage to protected components on short circuit
- Controlled arc voltage reduces stress to circuit components during fuse clearing
- Choice of mounting types helps in equipment design

| Current Rating I _n [A] | Catalog No. | Poles |
|-----------------------------------|------------------|-------|
| 1-30 | 60316 | 1 |
| 31-60 | P243C | 1 |
| 61-100 | P243C | 1 |
| 101-200 | P243C | 1 |
| 201-400 | P266A | 1 |
| 401-600 | P266A | 1 |
| 35-400 | 1SC250 or 1SCM8 | 1 |
| 450-800 | 1SC375 or 1SCM10 | 1 |

See Fusegear section for product details.



RATINGS:

- **AC:** 1-30A, 600VAC
35-800A, 600VAC, 200kA IR
900-2000A, 600VAC

APPLICATIONS:

- Protection of heavy traction and electrochemical as well as rectifiers and other heavy-duty equipment

APPROVALS:

- UL Recognized Component
UL file E60314
- AC: 35-800A, 600VAC



DIMENSIONS:

| Outline Ref. | Mounting Type | Fig. | Dimensions - Inches (mm) | | | | | | | | | Tap |
|------------------|---------------|------|--------------------------|------------|------------|------------|------------|------------|------------|----------|---|-----------------|
| | | | A | B | C | D | E | F | G | H | | |
| A60X1 to 30 | 1 | 1 | 5.00[127] | .81[20.6] | - | - | - | - | - | - | - | - |
| A60X35 to 60 | 4 | 2 | 4.38[111] | .81[20.6] | 2.78[70.6] | 3.69[93.7] | 3.44[87.4] | .34[8.6] | .72[18.3] | .13[3.3] | - | - |
| A60X70 to 100 | 4, 4TI*, 4TA | 3, 4 | 4.41[112] | 1.00[25.4] | 2.91[73.9] | 3.72[94.5] | 3.59[91.2] | .31[7.9] | .75[19.1] | .13[3.3] | - | - |
| A60X125 to 200 | 4, 4TI*, 4TA | 3, 4 | 4.41[112] | 1.22[31.0] | 2.91[73.9] | 3.72[94.5] | 3.59[91.2] | .31[7.9] | 1.00[25.4] | .19[4.8] | - | - |
| A60X225 to 400 | 4, 4TI*, 4TA | 3, 4 | 5.13[130] | 1.50[38.1] | 2.88[73.2] | 4.19[106] | 3.56[90.4] | .41[10.4] | 1.00[25.4] | .25[6.4] | - | - |
| A60X450 to 600 | 4, 4TI*, 4TA | 3, 4 | 5.13[130] | 2.00[50.8] | 2.88[73.2] | 4.06[103] | 3.69[93.7] | .41[10.4] | 1.50[38.1] | .25[6.4] | - | - |
| A60X700 to 800 | 4, 4TA* | 3, 4 | 7.25[184] | 2.50[63.5] | 3.00[76.2] | 5.94[151] | 4.56[116] | .53[13.5] | 2.00[50.8] | .38[9.7] | - | - |
| A60X700 to 800 | 128 | 5 | 4.00[102] | 3.00[76.2] | 3.75[95.3] | 2.50[63.5] | 1.50[38.1] | - | - | - | - | 3/8-24-1/2 Deep |
| A60X1000 to 1200 | 128 | 6 | 4.00[102] | 3.50[88.9] | 3.75[95.3] | 3.00[76.2] | 1.50[38.1] | 1.50[38.1] | - | - | - | 3/8-24-1/2 Deep |
| A60X1500 to 2000 | 128 | 6 | 4.00[102] | 4.50[114] | 3.75[95.3] | 3.75[95.3] | 1.50[38.1] | 1.50[38.1] | - | - | - | 1/2-20-1/2 Deep |

* Optional Trigger Actuator (TA) or Trigger Indicator (TI)

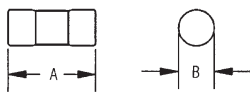


Figure 1

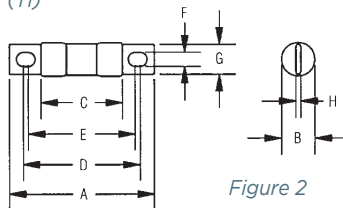


Figure 2

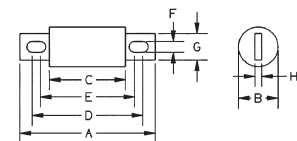


Figure 3

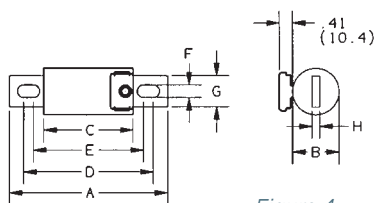


Figure 4

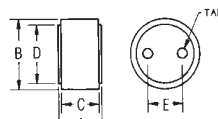


Figure 5

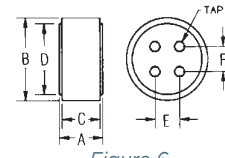


Figure 6

A60X

Amp-Trap® Form 101, 600VAC; 1-2000A

CATALOG NUMBERS:

| Catalog No. | Current Rating I _n (A) | Dimen. Fig. |
|-------------|-----------------------------------|-------------|
| A60X1-1 | 1 | 1 |
| A60X2-1 | 2 | 1 |
| A60X3-1 | 3 | 1 |
| A60X4-1 | 4 | 1 |
| A60X5-1 | 5 | 1 |
| A60X6-1 | 6 | 1 |
| A60X7-1 | 7 | 1 |
| A60X8-1 | 8 | 1 |
| A60X10-1 | 10 | 1 |
| A60X12-1 | 12 | 1 |
| A60X15-1 | 15 | 1 |
| A60X20-1 | 20 | 1 |
| A60X25-1 | 25 | 1 |
| A60X30-1 | 30 | 1 |
| A60X35-4 | 35 | 2 |
| A60X40-4 | 40 | 2 |
| A60X45-4 | 45 | 2 |
| A60X50-4 | 50 | 2 |
| A60X55-4 | 55 | 2 |
| A60X60-4 | 60 | 2 |
| A60X70-4 | 70 | 3 |
| A60X80-4 | 80 | 3 |
| A60X80-4TA | 80 | 4 |
| A60X90-4 | 90 | 3 |
| A60X100-4 | 100 | 3 |
| A60X100-4TA | 100 | 4 |
| A60X125-4 | 125 | 3 |
| A60X125-4TA | 125 | 4 |
| A60X150-4 | 150 | 3 |
| A60X150-4TA | 150 | 4 |
| A60X175-4 | 175 | 3 |
| A60X200-4 | 200 | 3 |
| A60X200-4TA | 200 | 4 |
| A60X200-4TI | 200 | 3 |

| Catalog No. | Current Rating I _n (A) | Dimen. Fig. |
|--------------|-----------------------------------|-------------|
| A60X225-4 | 225 | 3 |
| A60X250-4 | 250 | 3 |
| A60X250-4TA | 250 | 4 |
| A60X250-4TI | 250 | 3 |
| A60X300-4 | 300 | 3 |
| A60X300-4TA | 300 | 4 |
| A60X300-4TI | 300 | 3 |
| A60X350-4 | 350 | 3 |
| A60X350-4TA | 350 | 4 |
| A60X400-4 | 400 | 3 |
| A60X400-4TA | 400 | 4 |
| A60X400-4TI | 400 | 3 |
| A60X450-4 | 450 | 3 |
| A60X450-4TA | 450 | 4 |
| A60X500-4 | 500 | 3 |
| A60X500-4TA | 500 | 4 |
| A60X500-4TI | 500 | 3 |
| A60X600-4 | 600 | 3 |
| A60X600-4TA | 600 | 4 |
| A60X600-4TI | 600 | 3 |
| A60X700-4 | 700 | 3 |
| A60X700-128 | 700 | 7 |
| A60X800-4 | 800 | 3 |
| A60X800-4TA | 800 | 4 |
| A60X800-128 | 800 | 7 |
| A60X1000-128 | 1000 | 8 |
| A60X1200-128 | 1200 | 8 |
| A60X1500-128 | 1500 | 8 |
| A60X1600-128 | 1600 | 8 |
| A60X1800-128 | 1800 | 8 |
| A60X2000-128 | 2000 | 8 |

For ampere ratings and styles not listed, contact Technical Services at 978-465-4853 or TechnicalServices.EP@mersen.com.

A70P

Amp-Trap® Form 101, 700VAC, 650VDC; 10-2000A

A70P Amp-Trap® Form 101 high speed fuses are developed for higher voltage AC and DC drives, UPS systems, reduced voltage motor starters and similar applications where lower I²t and superior reliability are needed. A70P is available in a wide range of ratings and is typically used for replacement.

FEATURES/BENEFITS: FUSE BLOCKS:

- Low I²t minimizes damage to protected components on short circuit
- Controlled arc voltage reduces stress to circuit components during fuse clearing
- Choice of mounting types helps in equipment design

| Current Rating I _n [A] | Catalog No. | Poles |
|-----------------------------------|------------------|-------|
| 10-30 (Type 1) | 70316 | 1 |
| 31-60 | P243C | 1 |
| 61-100 | P243C | 1 |
| 101-200 | P266A | 1 |
| 201-400 | P266A | 1 |
| 401-600 | P266F | 1 |
| 601-800 | 1SC375 | 1 |
| 35-400 | 1SC250 or 1SCM8 | |
| 450-800 | 1SC375 or 1SCM10 | |

See Fusegear section for product details.



RATINGS:

- **AC:** 10-800A, 700VAC, 100kA IR
1000-2000A, 700VAC, 200kA IR
- **DC:** 10-1600A, 650VDC, 100kA IR, L/R≤10ms
2000A, 550VDC, 100kA IR, L/R≤10ms

APPLICATIONS:

- Protection of 700V or less DC drives, UPS, inverters, reduced voltage starters, etc.

APPROVALS:

- UL Recognized Component
UL File E60314
- AC: 10-2000A, 700VAC
- DC: 10-1600A, 650VDC
2000A, 550VDC



DIMENSIONS:

| Outline Ref. | Mounting Type | Fig. | Dimensions - Inches [mm] | | | | | | | | | |
|-----------------|---------------|--------|--------------------------|------------|------------|------------|------------|-----------|------------|-----------|------------|---|
| | | | A | B | C | D | E | F | G | H | J | |
| A70P10 to 30 | 1 | 1 | 2.00[50.8] | .56[14.2] | - | - | - | - | - | - | - | - |
| A70P10 to 30 | 4 | 2 | 2.88[73.2] | .56[14.2] | 1.88[47.8] | 2.50[63.5] | - | .27[6.9] | .41[10.4] | - | - | |
| A70P35 to 60 | 4, 4TA**, 4TI | 3, 4** | 4.38[111] | 1.00[25.4] | 2.88[73.2] | 3.69[93.7] | 3.50[88.9] | .31[7.9] | .75[19.1] | .13[3.2] | - | |
| A70P70 to 100 | 4, 4TA**, 4TI | 3, 4** | 4.38[111] | 1.22[31.0] | 2.88[73.2] | 3.69[93.7] | 3.56[90.4] | .31[7.9] | 1.00[25.4] | .19[4.8] | - | |
| A70P125 to 200 | 4, 4TA**, 4TI | 3, 4** | 5.09[129] | 1.50[38.1] | 2.84[72.1] | 4.16[106] | 3.53[89.7] | .41[10.4] | 1.00[25.4] | .25[6.4] | - | |
| A70P225 to 400 | 4, 4TA**, 4TI | 3, 4** | 5.09[129] | 2.00[50.8] | 2.84[72.1] | 4.16[106] | 3.53[89.7] | .41[10.4] | 1.50[38.1] | .24[6.4] | - | |
| A70P450 to 600 | 4, 4TA**, 4TI | 3, 4** | 7.09[180] | 2.38[60.5] | 2.84[72.1] | 5.25[133] | 4.94[125] | .53[13.5] | 2.00[50.8] | .38[9.7] | - | |
| A70P700 to 800 | 4, 4TI | 5 | 6.81[173] | 2.88[73.2] | 3.31[84.1] | 5.31[135] | - | .63[16.0] | 2.00[50.8] | .38[9.7] | .31[7.9] | |
| A70P900 to 1000 | 4, 4TI | 6 | 7.59[193] | 3.50[88.9] | 3.84[97.5] | 5.97[152] | 5.22[133] | .63[16.0] | 2.75[69.9] | .50[12.7] | 1.38[35.1] | |

** Optional Trigger Actuator

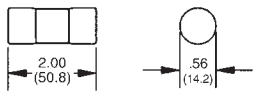


Figure 1

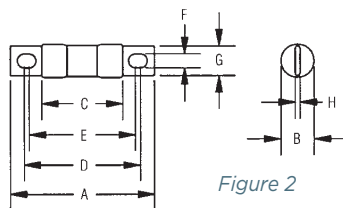


Figure 2

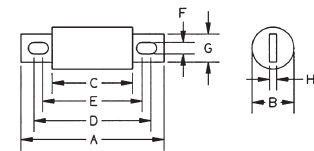


Figure 3

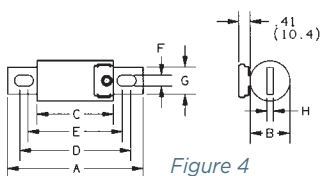


Figure 4

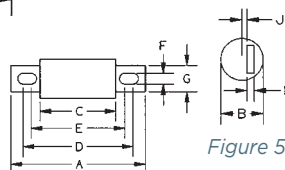


Figure 5

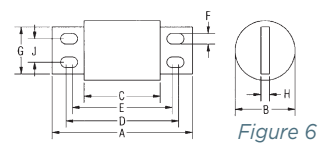


Figure 6

For ampere ratings and styles not listed, contact Technical Services at 978-465-4853 or TechnicalServices.EP@mersen.com.

A70P

Amp-Trap® Form 101, 700VAC, 650VDC; 10-2000A

CATALOG NUMBERS:

| Catalog No. | Current Rating I _n (A) | Dimen. Fig. |
|-------------|-----------------------------------|-------------|
| A70P10-1 | 10 | 1 |
| A70P10-4 | 10 | 2 |
| A70P15-1 | 15 | 1 |
| A70P15-4 | 15 | 2 |
| A70P20-1 | 20 | 1 |
| A70P25-1 | 25 | 1 |
| A70P25-4 | 25 | 2 |
| A70P30-1 | 30 | 1 |
| A70P30-4 | 30 | 2 |
| A70P35-4 | 35 | 3 |
| A70P40-4 | 40 | 3 |
| A70P40-4TA | 40 | 4 |
| A70P40-4TI | 40 | 3 |
| A70P50-4 | 50 | 3 |
| A70P60-4 | 60 | 3 |
| A70P60-4TA | 60 | 4 |
| A70P60-4TI | 60 | 3 |
| A70P70-4 | 70 | 3 |
| A70P70-4TI | 70 | 3 |
| A70P80-4 | 80 | 3 |
| A70P80-4TA | 80 | 4 |
| A70P80-4TI | 80 | 3 |
| A70P90-4 | 90 | 3 |
| A70P100-4 | 100 | 3 |
| A70P100-4TA | 100 | 4 |
| A70P125-4 | 125 | 3 |
| A70P125-4TA | 125 | 4 |
| A70P150-4 | 150 | 3 |
| A70P150-4TA | 150 | 4 |
| A70P150-4TI | 150 | 3 |
| A70P175-4 | 175 | 3 |

| Catalog No. | Current Rating I _n (A) | Dimen. Fig. |
|---------------|-----------------------------------|-------------|
| A70P200-4 | 200 | 3 |
| A70P200-4TA | 200 | 4 |
| A70P200-4TI | 200 | 3 |
| A70P225-4 | 225 | 3 |
| A70P250-4 | 250 | 3 |
| A70P250-4TA | 250 | 4 |
| A70P250-4TI | 250 | 3 |
| A70P300-4 | 300 | 3 |
| A70P350-4 | 350 | 3 |
| A70P400-4 | 400 | 3 |
| A70P400-4TA | 400 | 4 |
| A70P400-4TI | 400 | 3 |
| A70P450-4 | 450 | 3 |
| A70P500-4 | 500 | 3 |
| A70P600-4 | 600 | 3 |
| A70P600-4TA | 600 | 4 |
| A70P600-4TI | 600 | 3 |
| A70P700-4 | 700 | 5 |
| A70P700-4TI | 700 | 5 |
| A70P800-4 | 800 | 5 |
| A70P800-4TI | 800 | 5 |
| A70P900-4 | 900 | 6 |
| A70P1000-4 | 1000 | 6 |
| A70P1200-4* | 1200 | * |
| A70P1400-4* | 1400 | * |
| A70P1500-4* | 1500 | * |
| A70P1600-4* | 1600 | * |
| A70P1600-4TI* | 1600 | * |
| A70P1600-4TA* | 1600 | * |
| A70P2000-4* | 2000 | * |
| A70P2000-4TA* | 2000 | * |

* Contact Technical Services for more information about A70P fuses rated above 1000A.

For ampere ratings and styles not listed, contact Technical Services at 978-465-4853 or TechnicalServices.EP@mersen.com.

A70Q

Amp-Trap® Form 101, 700VAC, 650VDC; 35-600A

A70Q Amp-Trap® high speed fuses were developed for inverter applications requiring extremely low I²t. A70Q fuses provide the most responsive protection for applications not required to sustain heavy overloads. Typically used for replacement purposes.

FEATURES/BENEFITS: FUSE BLOCKS:

- Lowest I²t of any fuse in this voltage rating for best overall protection
- 700VAC, 650VDC rating allows protection of greater variety of circuits
- Solid fill technology for extra reliability in performance

| Current Rating I _n [A] | Catalog No. | Poles |
|-----------------------------------|------------------|-------|
| 35-100 | P243C | 1 |
| 125-400 | P266A | 1 |
| 450-600 | P266F | 1 |
| 35-400 | 1SC250 or 1SCM8 | 1 |
| 250-600 | 1SC375 or 1SCM10 | 1 |

See Fusegear section for product details.



RATINGS:

- **AC:** 35-600A, 700VAC, 200kA IR
- **DC:** 35-600A, 650VDC, 100kA IR, L/R≤10ms

APPLICATIONS:

- Protection of inverters and other equipment requiring the best AC or DC protection in this voltage range

APPROVALS:

- UL Recognized Component
UL File E60314
- AC: 35-600A, 700VAC
- DC: 35-600A, 650VDC



DIMENSIONS:

| Catalog No. | Mounting Type | Dimensions - Inches [mm] | | | | | | | |
|----------------|---------------|--------------------------|------------|------------|------------|------------|-----------|------------|----------|
| | | A | B | C | D | E | F | G | H |
| A70Q35 to 60 | 4 | 4.37[111] | 1.22[31.0] | 1.96[49.8] | 3.69[93.7] | 2.91[73.9] | .34[8.6] | 1.00[25.4] | .19[4.8] |
| A70Q70 to 100 | 4 | 4.37[111] | 1.22[31.0] | 1.96[49.8] | 3.69[93.7] | 2.91[73.9] | .41[10.4] | 1.00[25.4] | .19[4.8] |
| A70Q125 to 200 | 4 | 5.09[129] | 1.50[38.1] | 1.96[49.8] | 4.16[106] | 2.91[73.9] | .41[10.4] | 1.00[25.4] | .25[6.4] |
| A70Q250 to 400 | 4 | 5.09[129] | 2.00[50.8] | 1.96[49.8] | 4.00[102] | 2.94[74.7] | .56[14.2] | 1.50[38.1] | .25[6.4] |
| A70Q450 to 600 | 4 | 7.09[180] | 2.50[63.5] | 1.96[49.8] | 5.72[145] | 3.25[82.6] | .56[14.2] | 2.00[50.8] | .38[9.7] |

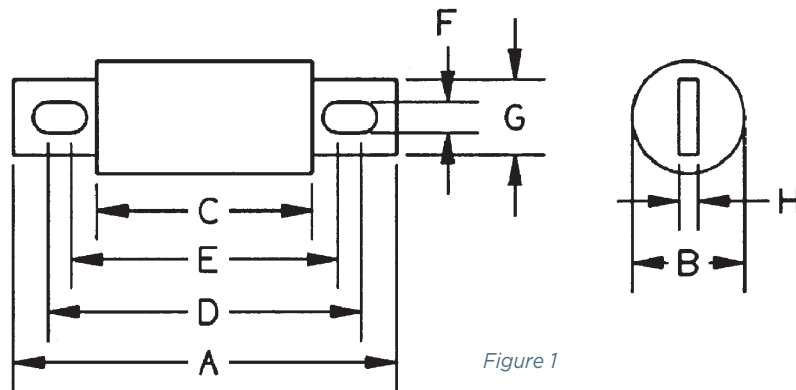


Figure 1

CATALOG NUMBERS:

| Catalog No. | Current Rating I _n [A] |
|-------------|-----------------------------------|
| A70Q35-4 | 35 |
| A70Q40-4 | 40 |
| A70Q50-4 | 50 |
| A70Q60-4 | 60 |
| A70Q70-4 | 70 |
| A70Q80-4 | 80 |
| A70Q90-4 | 90 |
| A70Q100-4 | 100 |
| A70Q125-4 | 125 |
| A70Q150-4 | 150 |
| A70Q175-4 | 175 |
| A70Q200-4 | 200 |
| A70Q250-4 | 250 |
| A70Q300-4 | 300 |
| A70Q350-4 | 350 |
| A70Q400-4 | 400 |
| A70Q450-4 | 450 |
| A70Q500-4 | 500 |
| A70Q600-4 | 600 |

For ampere ratings and styles not listed, contact Technical Services at 978-465-4853 or TechnicalServices.EP@mersen.com.

A70QS

Amp-Trap® French Cylindrical, 700VAC, 700VDC; 6-100A

These Premium Amp-Trap® French Cylindrical high speed fuses are an extension of the popular A70QS product line. They are solid-fill 14mm and 22mm fuses, IEC rated 690VAC, 200kA Interrupting and 700VDC, 100kA interrupting at 10ms time constant. In addition, these fuses have an 890 VDC rating for capacitor discharge applications up to 2.5ms time constant. All ampere ratings are available with a striker. Applications include small inverter drives and UPS systems, with superior I²t for improved protection and performance.



FEATURES/BENEFITS: FUSE BLOCKS:

- International 14x51 mm (2"x9/16") and 22x58mm (2-1/4"x13/16") sizes for worldwide acceptance
- Ferrule mount up to 100A for design versatility
- Very low I²t for improved semiconductor protection
- 700VDC rated for DC protection of equipment with L/R ≤10ms
- Superior cycling ability for longer life on difficult cyclic loading applications
- aR characteristic for semiconductor short-circuit protection
- IEC Tested for 760VAC, IEC rated 690V, tested to 750VAC

| Catalog No. | |
|-------------------|-----------------|
| A70QS-14F or 14FI | UltraSafe™ US14 |
| | 703 |
| | U705 |
| A70QS-22F or 22FI | UltraSafe US22 |
| | U710 |

See Fusegear section for product details.

APPLICATIONS:

- Small inverters, UPS systems, motor drives and similar 700V or less equipment

APPROVALS:

- UL recognized component File E76491
- CSA Certified
- IEC 269-4 Compliance
- AC: 6-100A, 700VAC
- DC: 6-100A, 700VDC



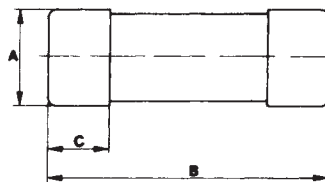
RATINGS:

- **AC:** 6-100A, 700VAC, 200kA IR
- **DC:** 6-100A, 700VDC, 100kA IR, L/R ≤10ms

DIMENSIONS:

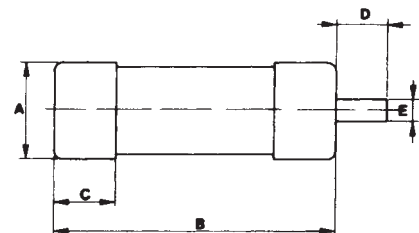
No Striker

| Fuse Size | Dimensions-mm | | |
|-----------|---------------|----|----|
| | A | B | C |
| 14 X 51 | 14 | 51 | 14 |
| 22 X 58 | 22 | 58 | 16 |



With Striker

| Fuse Size | Dimensions-mm | | | | |
|-----------|---------------|----|----|-----|-----|
| | A | B | C | D | E |
| 14 X 51 | 14 | 51 | 14 | 7.5 | 3.8 |
| 22 X 58 | 22 | 58 | 16 | 7.5 | 3.8 |



A70QS

Amp-Trap® French Cylindrical, 700VAC, 700VDC; 6-100A

CATALOG NUMBERS:

| Catalog Number | | Current Rating I_n (A) | Body Size (mm) |
|----------------|---------------|--------------------------|----------------|
| No Striker | With Striker | | |
| A70QS6-14F | A70QS6-14FI | 6 | 14 x 51 |
| A70QS8-14F | A70QS8-14FI | 8 | |
| A70QS10-14F | A70QS10-14FI | 10 | |
| A70QS12-14F | A70QS12-14FI | 12 | |
| A70QS16-14F | A70QS16-14FI | 16 | |
| A70QS20-14F | A70QS20-14FI | 20 | |
| A70QS25-14F | A70QS25-14FI | 25 | |
| A70QS32-14F | A70QS32-14FI | 32 | |
| A70QS40-14F | A70QS40-14FI | 40 | |
| A70QS50-14F | A70QS50-14FI | 50 | |
| A70QS10-22F | A70QS10-22FI | 10 | |
| A70QS15-22F | A70QS15-22FI | 15 | |
| A70QS20-22F | A70QS20-22FI | 20 | |
| A70QS25-22F | A70QS25-22FI | 25 | |
| A70QS32-22F | A70QS32-22FI | 32 | |
| A70QS40-22F | A70QS40-22FI | 40 | |
| A70QS50-22F | A70QS50-22FI | 50 | |
| A70QS63-22F | A70QS63-22FI | 63 | |
| A70QS70-22F | A70QS70-22FI | 70 | |
| A70QS80-22F | A70QS80-22FI | 80 | |
| A70QS90-22F | A70QS90-22FI | 90 | |
| A70QS100-22F | A70QS100-22FI | 100 | |

A70QS

Amp-Trap® Form 101, 700VAC/VDC; 35-800A

A70QS Amp-Trap® high speed fuses were developed in response to the need for improved overall performance of 700V high speed fuses for new equipment requirements. A70QS fuses have lower I²t for better protection, longer life when subjected to cyclic loading, plus lower watts loss.

FEATURES/BENEFITS: FUSE BLOCKS:

- Very Low I²t for improved protection of equipment
- Superior cycling ability for long, reliable life on high cyclic loading
- Low watts loss for cooler operation
- 700VAC/DC rating gives greater design versatility
- Ultra compact sizes allow down-sizing of existing equipment

| Fuse Mounting Type | Current Rating I _n (A) | Catalog No. | Poles |
|--------------------|-----------------------------------|-------------|-------|
| A70QS-4 | 35-200 | P243C | 1 |
| A70QS 4K | 35-400 | 1SCM8 | 1 |
| A70QS-4 | 35-400 | 1SC250 | 1 |
| A70QS-4K | 125-200 | P266A | 1 |
| A70QS-4 | 225-600 | P266A | 1 |
| A70QS-4K | 450-600 | FH70F3 | 1 |
| A70QS 4K | 450-800 | 1SCM10 | 1 |
| A70QS-4 | 450-800 | 1SC375 | 1 |
| A70QS-4 | 700-800 | 1SC375 | 1 |

See Fusegear section for product details.



RATINGS:

- **AC:** 35-800A, 700VAC, 200kA IR
- **DC:** 35-800A, 700VDC, 100kA IR, L/R≤10ms

APPLICATIONS:

- Protection of 700V or less motor drives, UPS, inverters, etc.

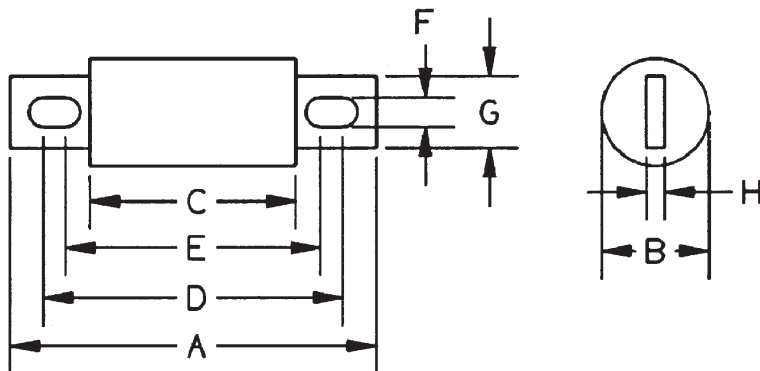
APPROVALS:

- UL Recognized Component UL File E60314
- AC: 35-800A, 700VAC
- DC: 35-800A, 700VDC
- CSA certified File LR 12636



DIMENSIONS:

| Outline Ref. | Mounting Type | Dimensions - Inches (mm) | | | | | | | |
|-----------------|---------------|--------------------------|------------|------------|------------|------------|------------|------------|-----------|
| | | A | B | C | D | E | F | G | H |
| A70QS35 to 100 | 4 | 4.38(111) | 1.00(25.4) | 2.88(73.0) | 3.69(93.6) | 3.50(88.9) | 0.31(7.9) | 0.75(19.0) | 0.13(3.2) |
| A70QS125 to 200 | 4 | 4.38(111) | 1.22(31.0) | 2.88(73.0) | 3.69(93.6) | 3.56(90.5) | 0.31(7.9) | 1.00(25.4) | 0.19(4.8) |
| A70QS125 to 200 | 4K | 5.09(129) | 1.22(31.0) | 2.88(73.0) | 4.19(106) | 3.50(88.0) | 0.41(10.3) | 1.00(25.4) | 0.19(4.8) |
| A70QS225 to 400 | 4 | 5.09(129) | 1.50(38.1) | 2.84(72.2) | 4.16(106) | 3.53(89.7) | 0.40(10.3) | 1.00(25.4) | 0.25(6.4) |
| A70QS450 to 600 | 4 | 5.09(129) | 2.00(50.8) | 2.84(72.2) | 4.16(106) | 3.53(89.7) | 0.41(10.3) | 1.50(38.1) | 0.25(6.4) |
| A70QS450 to 600 | 4K | 7.09(180) | 2.00(50.8) | 2.84(72.2) | 6.16(156) | 3.53(89.7) | 0.53(13.5) | 1.50(38.1) | 0.25(6.4) |
| A70QS700 to 800 | 4 | 7.09(180) | 2.50(63.5) | 2.84(72.2) | 5.28(134) | 4.91(125) | 0.53(13.5) | 2.00(50.8) | 0.38(9.5) |



A70QS

Amp-Trap® Form 101, 700VAC/VDC; 35-800A

CATALOG NUMBERS:

| Catalog No. | Current Rating I_n (A) |
|-------------|--------------------------|
| A70QS35-4 | 35 |
| A70QS40-4 | 40 |
| A70QS50-4 | 50 |
| A70QS60-4 | 60 |
| A70QS70-4 | 70 |
| A70QS80-4 | 80 |
| A70QS90-4 | 90 |
| A70QS100-4 | 100 |
| A70QS125-4 | 125 |
| A70QS125-4K | 125 |
| A70QS150-4 | 150 |
| A70QS150-4K | 150 |
| A70QS175-4 | 175 |
| A70QS175-4K | 175 |

| Catalog No. | Current Rating I_n (A) |
|-------------|--------------------------|
| A70QS200-4 | 200 |
| A70QS200-4K | 200 |
| A70QS225-4 | 225 |
| A70QS250-4 | 250 |
| A70QS300-4 | 300 |
| A70QS350-4 | 350 |
| A70QS400-4 | 400 |
| A70QS450-4 | 450 |
| A70QS450-4K | 450 |
| A70QS500-4 | 500 |
| A70QS500-4K | 500 |
| A70QS600-4 | 600 |
| A70QS600-4K | 600 |
| A70QS700-4 | 700 |
| A70QS800-4 | 800 |

* For ampere ratings and styles not listed (including indicators), contact Technical Services at 978-465-4853 or TechnicalServices.EP@mersen.com.

A100P

Amp-Trap® Form 101, 1000VAC; 15-2000A

A100P Amp-Trap® Form 101 high speed fuses are rated 1000V, extending the range of protection for UPS systems, AC and DC drives, reduced voltage motor starters and similar applications where lower I²t and superior reliability are needed.

FEATURES/BENEFITS:

- Low I²t minimizes damage to protected components on short circuit
- Controlled arc voltage reduces stress to circuit components during fuse clearing
- Wide range of ampere ratings

FUSE BLOCKS:

| Current Rating I _n [A] | Catalog No. | Poles |
|-----------------------------------|------------------|-------|
| 35-100 | P266G | 1 |
| 125-400 | P266L | 1 |
| 35-400 | 1SC250 or 1SCM8 | 1 |
| 500-800 | 1SC375 or 1SCM10 | 1 |

See Fusegear section for product details.



RATINGS:

- **AC:** 15-30A, 1000VAC
35-600A, 1000VAC, 100ka IR
650-2000A, 1000VAC

APPLICATIONS:

- Protection of UPS systems
AC/DC drives, reduced
voltage motor starters and
other semiconductor devices

APPROVALS:

- UL Recognized Component
File E60314
- AC: 35-600A, 1000VAC



DIMENSIONS:

| Outline Ref. | Mounting Type | Fig. | Dimensions - Inches (mm) | | | | | | | | | |
|-----------------|---------------|------|--------------------------|------------|------------|-----------|-----------|------------|------------|------------|------------|---|
| | | | A | B | C | D | E | F | G | H | J | |
| A100P15 to 30 | 1 | 1 | 2.63[66.8] | 0.56[14.2] | - | - | - | - | - | - | - | - |
| A100P35 to 60 | 4, 4TI | 2 | 5.00[127] | 1.00[25.4] | 3.50[88.9] | 4.31[109] | 4.19[106] | 0.31[7.9] | 0.75[19.1] | 0.13[3.3] | - | |
| A100P65 to 100 | 4, 4TI | 2 | 5.00[127] | 1.22[31.0] | 3.50[88.9] | 4.31[109] | 4.19[106] | 0.31[7.9] | 1.00[25.4] | 0.19[4.8] | - | |
| A100P125 to 200 | 4, 4TI | 2 | 5.72[145] | 1.50[38.1] | 3.47[88.1] | 4.78[121] | 4.16[106] | 0.41[10.4] | 1.00[25.4] | 0.25[6.4] | - | |
| A100P225 to 400 | 4, 4TI | 2 | 5.72[145] | 2.00[50.8] | 3.47[88.1] | 4.78[121] | 4.16[106] | 0.41[10.4] | 1.50[38.1] | 0.25[6.4] | - | |
| A100P500 to 600 | 4, 4TI | 2 | 7.72[196] | 2.50[63.5] | 3.47[88.1] | 5.88[149] | 5.56[141] | 0.53[13.5] | 2.00[50.8] | 0.38[9.7] | - | |
| A100P650 to 800 | 4, 4TI | 2 | 7.44[189] | 2.88[73.2] | 3.94[100] | 5.94[151] | - | 0.63[16.0] | 2.00[50.8] | 0.38[9.7] | - | |
| A100P1000 | 4 | 2 | 8.22[209] | 3.38[85.9] | 4.47[114] | 6.59[167] | 5.84[148] | 0.63[16.0] | 2.75[69.9] | 0.50[12.7] | 1.38[35.1] | |

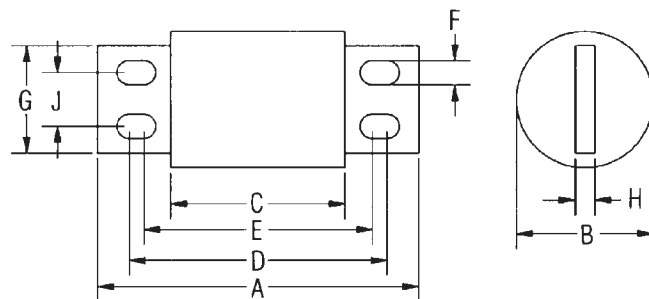
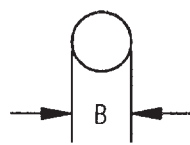
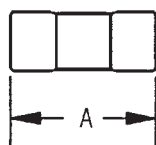


Figure 1

Figure 2

For ampere ratings and styles not listed, contact Technical Services at 978-465-4853 or TechnicalServices.EP@mersen.com.

A100P

Amp-Trap® Form 101, 1000VAC; 15-2000A

CATALOG NUMBERS:

| Catalog No. | Current Rating I _n (A) | Dimen. Fig. |
|--------------|-----------------------------------|-------------|
| A100P15-1 | 15 | 1 |
| A100P20-1 | 20 | 1 |
| A100P25-1 | 25 | 1 |
| A100P30-1 | 30 | 1 |
| A100P35-4 | 35 | 2 |
| A100P40-4 | 40 | 2 |
| A100P50-4 | 50 | 2 |
| A100P50-4TI | 50 | 2 |
| A100P60-4 | 60 | 2 |
| A100P60-4TI | 60 | 2 |
| A100P70-4TI | 70 | 2 |
| A100P80-4 | 80 | 2 |
| A100P80-4TI | 80 | 2 |
| A100P100-4 | 100 | 2 |
| A100P100-4TI | 100 | 2 |
| A100P125-4 | 125 | 2 |
| A100P125-4TI | 125 | 2 |
| A100P150-4 | 150 | 2 |
| A100P150-4TI | 150 | 2 |
| A100P200-4 | 200 | 2 |
| A100P200-4TI | 200 | 2 |
| A100P225-4 | 225 | 2 |
| A100P250-4 | 250 | 2 |
| A100P300-4 | 300 | 2 |
| A100P300-4TI | 300 | 2 |

| Catalog No. | Current Rating I _n (A) | Dimen. Fig. |
|---------------|-----------------------------------|-------------|
| A100P350-4 | 350 | 2 |
| A100P350-4TI | 350 | 2 |
| A100P400-4 | 400 | 2 |
| A100P400-4TI | 400 | 2 |
| A100P500-4 | 500 | 2 |
| A100P500-4TI | 500 | 2 |
| A100P600-4 | 600 | 2 |
| A100P600-4TI | 600 | 2 |
| A100P650-4 | 650 | 2 |
| A100P700-4 | 700 | 2 |
| A100P800-4 | 800 | 2 |
| A100P800-4TI | 800 | 2 |
| A100P1000-4 | 1000 | 2 |
| A100P1000-4TA | 1000 | 2* |
| A100P1200-4 | 1200 | 2 |
| A100P1200-4TI | 1200 | 2 |
| A100P1200-4TA | 1200 | 2* |
| A100P1400-4TA | 1400 | 2* |
| A100P1600-4 | 1600 | 2 |
| A100P1600-4TI | 1600 | 2 |
| A100P1600-4TA | 1600 | 2* |
| A100P2000-4 | 2000 | 2 |
| A100P2000-4TI | 2000 | 2 |
| A100P2000-4TA | 2000 | 2* |

* "-4TA" fuses have an external indicator that is not shown on the drawing. Contact Technical Services for details.

For ampere ratings and styles not listed, contact Technical Services at 978-465-4853 or TechnicalServices.EP@mersen.com.

A120X

Amp-Trap® Form 101, 1200VAC, 1000VDC; 1/2-30A

A120X Amp-Trap® Form 101 high speed fuses, rated 1/2A through 30A, 1200VAC are popular for use in traction drive auxiliary circuits and similar applications. A120X fuses are also suitable for use on 1000VDC auxiliary circuits with low time constants.

FEATURES/BENEFITS:

- 1000VDC rated for wide range of circuits
- Compact size
- Mersen certified 1000VDC

FUSE BLOCKS:

| Current Rating I_n [A] | Catalog No. | Poles |
|-----------------------------|-------------|-------|
| 1/2-30 | P292 | 1 |

See Fusegear section for product details.



RATINGS:

- **AC:** 1/2-30A, 1200VAC, 100kA IR
- **DC:** 1/2-30A, 1000VDC

APPLICATIONS:

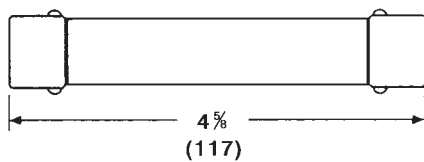
- Protection of traction drive auxiliary circuits, etc.

APPROVALS:

- UL Recognized Component File E 60314
- AC: 1/2-30A, 1200VAC



DIMENSIONS - IN (MM):



CATALOG NUMBERS:

| Catalog No. | Current Rating I_n [A] |
|-------------|--------------------------|
| A120X1/2-1 | 1/2 |
| A120X1-1 | 1 |
| A120X2-1 | 2 |
| A120X3-1 | 3 |
| A120X4-1 | 4 |
| A120X5-1 | 5 |

| Catalog No. | Current Rating I_n [A] |
|-------------|--------------------------|
| A120X6-1 | 6 |
| A120X10-1 | 10 |
| A120X15-1 | 15 |
| A120X20-1 | 20 |
| A120X25-1 | 25 |
| A120X30-1 | 30 |

For ampere ratings and styles not listed, contact Technical Services at 978-465-4853 or TechnicalServices.EP@mersen.com.

PSC Square Body

450-700VAC; 40-2500A; aR

Mersen 690/700V Protistor Semiconductor (PSC) square body fuses provide maximum flexibility in equipment design and ultimate protection for today's power conversion equipment. These square body fuses are available in four different body sizes, each size having more than seven worldwide acceptable mounting styles. The different mounting styles and body sizes along with a broad range of ampere ratings allow greatest flexibility in equipment design.

FEATURES/BENEFITS:

- Choice of mounting styles gives wide choice for equipment design
- Broad range of ampere ratings in a given body size for design flexibility
- UL/CSA/IEC 60269-4 compliance for worldwide semiconductor applications

FUSE BLOCKS:

| Catalog No. |
|-----------------|
| SI TT 30/31 |
| SI TT 32/33 |
| SI DIN 80 630 |
| SI DIN 80 1250 |
| SI DIN 110 630 |
| SI DIN 110 1250 |

See Fusegear section for product details.



RATINGS:

- **Volts:** 450-700 VAC, DC - consult factory
- **Amps:** 40-2500A
- **IR:** 200kA AC

APPLICATIONS:

- Protection of rectifiers, inverters, DC drives, UPS Systems, reduced voltage motor starters, and other equipment in globally accepted applications

APPROVALS:

- UL Recognized Component File E76491
- IEC 60269-4 certified
- CSA 012636 0 000
- CCC approved

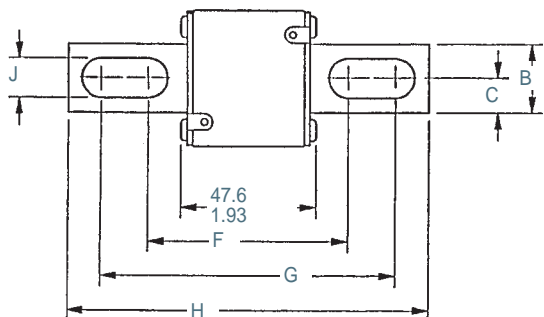


DIMENSIONS:

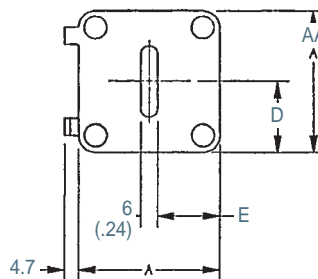
North American Straight Blade, Type KI (Short) and Type LI (Long)

| Body Size | Dimensions - mm (in), Type KI and LI | | | | | Dimensions - mm (in), Type KI | | | | Dimensions - mm (in), Type LI | | | |
|-----------|--------------------------------------|----------|-----------|------------|------------|-------------------------------|--------------|-------------|-----------|-------------------------------|-------------|-------------|-----------|
| | A | B | C | D | E | F | G | H | J | F | G | H | J |
| 30 | 40(1.57) | 25(.98) | 12.5(.49) | 21(.83) | 18(.71) | 68(2.68) | 107(4.21) | 129(5.08) | 10.5(.41) | 87.6(3.45) | 126.6(4.98) | 148.6(5.85) | 10.5(.41) |
| 31 | 51(2.00) | 25(.98) | 12.5(.49) | 25.5(1.00) | 22.5(.89) | 67.6(2.66) | 107.1(4.216) | 128.8(5.07) | 14.3(.56) | 91.6(3.61) | 122.4(4.82) | 148.6(5.85) | 14.6(.57) |
| 32 | 60(2.36) | 32(1.26) | 16(.63) | 30(1.18) | 27(1.06) | 74.2(2.92) | 109(4.29) | 134(5.28) | 14.6(.57) | 94.2(3.71) | 129(5.08) | 153(6.02) | 14.6(.57) |
| 33 | 74.5(2.93) | 40(1.57) | 20(.79) | 37.2(1.46) | 34.2(1.35) | 75.4(2.97) | 107.6(4.24) | 134(5.28) | 15.9(.63) | 94.4(3.72) | 126.6(.98) | 153(6.02) | 15.9(.63) |

Type KI



Type LI



PSC Square Body

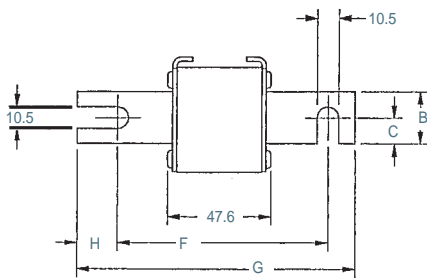
450-700VAC; 40-2500A; aR

DIMENSIONS:

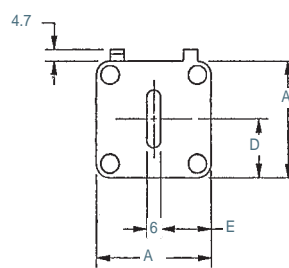
European Blade DIN 80, Type D08A and DIN 110, Type D1A

| Body Size | Dimensions - mm D08A and D1A | | | | | DIN 80, Type D08A | | DIN 110, Type D1A | |
|-----------|------------------------------|----|------|------|-------|-------------------|-----|-------------------|-------|
| | A | B | C | D | E | F | G | F | G |
| 30 | 40 | 25 | 12.5 | 21 | 17 | 77 | 110 | 101.6 | 134.6 |
| 31 | 51 | 25 | 12.5 | 25 | 22.5 | 77 | 110 | 101.6 | 134.6 |
| 32 | 60 | 32 | 16 | 30 | 27 | 77 | 110 | 101.6 | 134.6 |
| 33 | 74.5 | 40 | 20 | 37.2 | 34.25 | 77 | 110 | 101.6 | 134.6 |

Type D08A



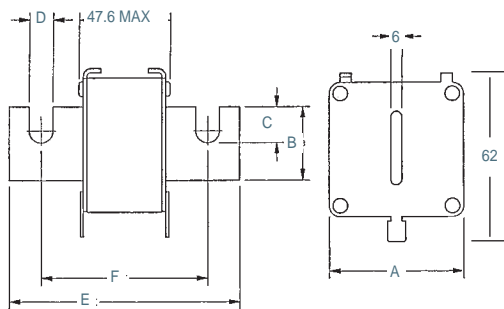
Type D1A



European French Blade, Type EF

| Body Size | Dimensions - mm | | | | | |
|-----------|-----------------|----|------|------|-----|------|
| | A | B | C | D | E | F |
| 30 | 40 | 18 | 11 | 9 | 100 | 76.6 |
| 31 | 50 | 25 | 16 | 10.5 | 110 | 86.5 |
| 32 | 59 | 32 | 21.2 | 13 | 13 | 90.8 |
| 33 | 74.5 | 40 | 19.5 | 13 | 13 | 91 |

Type EF



Body Size 30, 31, 32, 33, 2x32 and 2x33

PSC Square Body

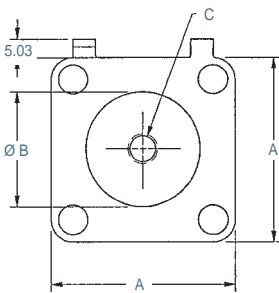
450-700VAC; 40-2500A; aR

DIMENSIONS:

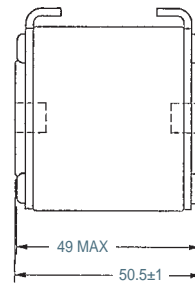
North American Tap Single Hole, Type TTI and TTF

| Body Size | Dimensions - in(mm) TTI and TTF | | TTI | TTF |
|-----------|---------------------------------|------------|---------------|-------------------|
| | A | B | C | C |
| 30 | 1.57(40) | 1.00(25) | 5/16-18 x .35 | M8 x 1.25 x 6 DP |
| 31 | 2.00(50.8) | 1.19(30.2) | 5/16-18 x .35 | M8 x 1.25 x 9 DP |
| 32 | 2.37(60.3) | 1.50(38.1) | 3/8-16 x .35 | M10 x 1.50 x 9 DP |
| 33 | 2.94(74.6) | 1.81(46) | 1/2-13 x .35 | M12 x 1.75 x 9 DP |

Types TTI



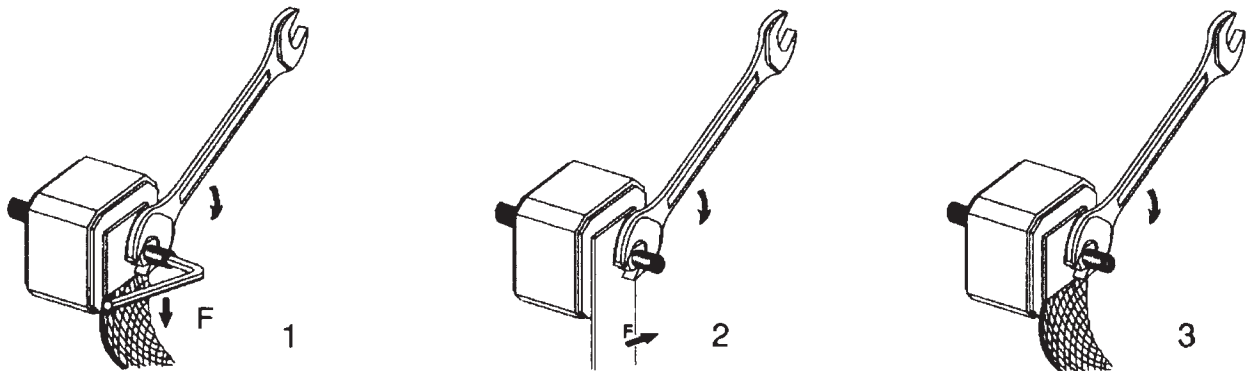
Types TTF



Standard Threaded Studs

| Size | Reference No. per Pair | Dimension Per Pair of Studs | Weight (g) | Max Stud Mounting Torque (Nm)* | Max Nut Tightening Torque (Nm)* | | |
|---------|------------------------|-----------------------------|------------|--------------------------------|---------------------------------|--------|--------|
| | | | | | Fig. 1 | Fig. 2 | Fig. 3 |
| 30 & 31 | S098801 | HC M8 X 30 & M 8 X 35 | 23 | 10 | 13.5 | 13.5 | 13.5 |
| 32 | T098802 | HC M 10 X 30 & M 10 X 50 | 40 | 15 | 26 | 26 | 26 |
| 33 | V098803 | HC M 12 X 35 & M 12 X 50 | 60 | | 46 | 46 | 46 |

*in.lbs = Nm/0.113



PSC Square Body

450-700VAC; 40-2500A; aR

690 Volt European/IEC Style Ratings and Application Data, DIN 110 Mounting

| Body Size | Current Rating I_n (A) | Rated Voltage V_n (V) (IEC) | Melting I^2t ($A^2s \times 10^3$) | Total Clearing $I^2t @ V_n$ ($A^2s \times 10^3$) | Watts Loss @ I_n (W) | Reference No. | Catalog No. | Legacy Description* |
|-----------|--------------------------|-------------------------------|---------------------------------------|--|------------------------|-----------------|------------------|---------------------|
| 30 | 50 | 690 | 0.116 | 0.68 | 9 | G301191 | PC30UD69V50D1A | 6,9URD30D11A0050 |
| | 63 | 690 | 0.2 | 1.2 | 14 | Q300118 | PC30UD69V63D1A | 6,9URD30D11A0063 |
| | 80 | 690 | 0.33 | 1.9 | 19 | R300119 | PC30UD69V80D1A | 6,9URD30D11A0080 |
| | 100 | 690 | 0.47 | 2.7 | 26 | S300120 | PC30UD69V100D1A | 6,9URD30D11A0100 |
| | 125 | 690 | 0.85 | 4.9 | 30 | T300121 | PC30UD69V125D1A | 6,9URD30D11A0125 |
| | 160 | 690 | 1.6 | 9.2 | 37 | V300122 | PC30UD69V160D1A | 6,9URD30D11A0160 |
| | 200 | 690 | 3 | 16.7 | 43 | W300123 | PC30UD69V200D1A | 6,9URD30D11A0200 |
| | 250 | 690 | 5.8 | 32.4 | 50 | X300124 | PC30UD69V250D1A | 6,9URD30D11A0250 |
| | 315 | 690 | 12 | 67 | 55 | Y300125 | PC30UD69V315D1A | 6,9URD30D11A0315 |
| | 350 | 690 | 15.5 | 86 | 60 | Z300126 | PC30UD69V350D1A | 6,9URD30D11A0350 |
| | 400 | 690 | 23 | 130 | 65 | A300127 | PC30UD69V400D1A | 6,9URD30D11A0400 |
| | 450 | 690 | 26 | 165 | 88 | S300695 | PC30UD69V450D1A | 6,9URD30D11A0450 |
| | 500 | 690 | 41 | 264 | 88 | Y301091 | PC30UD69V500D1A | 6,9URD30D11A0500 |
| | 550 | 690 | 52 | 330 | 90 | Z301092 | PC30UD69V550D1A | 6,9URD30D11A0550 |
| 31 | 200 | 690 | 2.6 | 14.6 | 45 | H300019 | PC31UD69V200D1A | 6,9URD31D11A0200 |
| | 250 | 690 | 4.7 | 27 | 52 | J300020 | PC31UD69V250D1A | 6,9URD31D11A0250 |
| | 315 | 690 | 7.5 | 43 | 65 | K300021 | PC31UD69V315D1A | 6,9URD31D11A0315 |
| | 350 | 690 | 10.5 | 59 | 67 | P300048 | PC31UD69V350D1A | 6,9URD31D11A0350 |
| | 400 | 690 | 19 | 110 | 68 | L300022 | PC31UD69V400D1A | 6,9URD31D11A0400 |
| | 450 | 690 | 26.5 | 150 | 70 | M300023 | PC31UD69V450D1A | 6,9URD31D11A0450 |
| | 500 | 690 | 37 | 210 | 72 | N300024 | PC31UD69V500D1A | 6,9URD31D11A0500 |
| | 550 | 690 | 52 | 300 | 75 | P300025 | PC31UD69V550D1A | 6,9URD31D11A0550 |
| | 630 | 690 | 75 | 421 | 85 | Q300026 | PC31UD69V630D1A | 6,9URD31D11A0630 |
| | 700 | 690 | 95 | 530 | 95 | R300027 | PC31UD69V700D1A | 6,9URD31D11A0700 |
| 800 | 690 | 140 | 880 | 120 | H300709 | PC31UD69V800D1A | 6,9URD31D11A0800 | |
| 32 | 400 | 690 | 15 | 86 | 75 | P300186 | PC32UD69V400D1A | 6,9URD32D11A0400 |
| | 450 | 690 | 22 | 124 | 80 | Q300187 | PC32UD69V450D1A | 6,9URD32D11A0450 |
| | 500 | 690 | 28 | 157 | 90 | R300188 | PC32UD69V500D1A | 6,9URD32D11A0500 |
| | 550 | 690 | 37 | 211 | 95 | S300189 | PC32UD69V550D1A | 6,9URD32D11A0550 |
| | 630 | 690 | 54 | 302 | 105 | T300190 | PC32UD69V630D1A | 6,9URD32D11A0630 |
| | 700 | 690 | 76 | 432 | 110 | V300191 | PC32UD69V700D1A | 6,9URD32D11A0700 |
| | 800 | 690 | 115 | 648 | 120 | W300192 | PC32UD69V800D1A | 6,9URD32D11A0800 |
| | 900 | 690 | 170 | 972 | 125 | X300193 | PC32UD69V900D1A | 6,9URD32D11A0900 |
| | 1000 | 690 | 240 | 1350 | 135 | Y300194 | PC32UD69V10CD1A | 6,9URD32D11A1000 |
| 33 | 500 | 690 | 19 | 108 | 105 | S300258 | PC33UD69V500D1A | 6,9URD33D11A0500 |
| | 550 | 690 | 27 | 151 | 110 | T300259 | PC33UD69V550D1A | 6,9URD33D11A0550 |
| | 630 | 690 | 40 | 227 | 120 | V300260 | PC33UD69V630D1A | 6,9URD33D11A0630 |
| | 700 | 690 | 55 | 324 | 125 | W300261 | PC33UD69V700D1A | 6,9URD33D11A0700 |
| | 800 | 690 | 95 | 529 | 130 | X300262 | PC33UD69V800D1A | 6,9URD33D11A0800 |
| | 900 | 690 | 135 | 760 | 135 | Y300263 | PC33UD69V900D1A | 6,9URD33D11A0900 |
| | 1000 | 690 | 170 | 970 | 155 | Z300264 | PC33UD69V10CD1A | 6,9URD33D11A1000 |
| | 1100 | 690 | 240 | 1360 | 160 | A300265 | PC33UD69V11CD1A | 6,9URD33D11A1100 |
| | 1250 | 690 | 350 | 2000 | 180 | B300266 | PC33UD66V12CD1A | 6,9URD33D11A1250 |
| | 1400 | 690 | 480 | 2700 | 200 | C300267 | PC33UD69V14CD1A | 6,9URD33D11A1400 |
| | 1500 | 600 | 500 | | 220 | H301974 | PC33UD60V15CD1A | 6URD33D11A1500 |
| 1600 | 600 | 555 | 3250 | 240 | Z301437 | PC33UD60V16CD1A | 6URD33D11A1600 | |

*Legacy Description for reference only

PSC Square Body

450-700VAC; 40-2500A; aR

690 Volt European/IEC Style Ratings and Application Data, DIN 80 Mounting

| Body Size | Current Rating I_n (A) | Rated Voltage V_n (V) (IEC) | Melting I^2t ($A^2s \times 10^3$) | Total Clearing I^2t @ V_n ($A^2s \times 10^3$) | Watts Loss @ I_n (W) | Reference No. | Catalog No. | Legacy Description* |
|-----------|--------------------------|-------------------------------|---------------------------------------|--|------------------------|---------------|------------------|---------------------|
| 30 | 50 | 690 | 0.116 | 0.68 | 9 | F301926 | PC30UD69V50A | 6,9URD30D08A0050 |
| | 63 | 690 | 0.2 | 1.2 | 14 | E300108 | PC30UD69V63A | 6,9URD30D08A0063 |
| | 80 | 690 | 0.33 | 1.9 | 19 | F300109 | PC30UD69V80A | 6,9URD30D08A0080 |
| | 100 | 690 | 0.47 | 2.7 | 26 | G300110 | PC30UD69V100A | 6,9URD30D08A0100 |
| | 125 | 690 | 0.85 | 4.3 | 30 | H300111 | PC30UD69V125A | 6,9URD30D08A0125 |
| | 160 | 690 | 1.6 | 9.2 | 37 | J300112 | PC30UD69V160A | 6,9URD30D08A0160 |
| | 200 | 690 | 3 | 16.7 | 43 | K300113 | PC30UD69V200A | 6,9URD30D08A0200 |
| | 250 | 690 | 5.8 | 32.4 | 50 | L300114 | PC30UD69V250A | 6,9URD30D08A0250 |
| | 315 | 690 | 12 | 67 | 55 | M300115 | PC30UD69V315A | 6,9URD30D08A0315 |
| | 350 | 690 | 15.5 | 86 | 60 | N300116 | PC30UD69V350A | 6,9URD30D08A0350 |
| | 400 | 690 | 23 | 130 | 65 | P300117 | PC30UD69V400A | 6,9URD30D08A0400 |
| | 450 | 690 | 26 | 165 | 88 | A300403 | PC30UD69V450A | 6,9URD30D08A0450 |
| | 500 | 690 | 41 | 256 | 88 | B300404 | PC30UD69V500A | 6,9URD30D08A0500 |
| | 550 | 690 | 52 | 330 | 90 | C300405 | PC30UD69V550A | 6,9URD30D08A0550 |
| 31 | 200 | 690 | 2.6 | 14.6 | 45 | Y300010 | PC31UD69V200A | 6,9URD31D08A0200 |
| | 250 | 690 | 4.7 | 27 | 52 | Z300011 | PC31UD69V250A | 6,9URD31D08A0250 |
| | 315 | 690 | 7.5 | 43 | 65 | A300012 | PC31UD69V315A | 6,9URD31D08A0315 |
| | 350 | 690 | 10.5 | 59 | 67 | Q300049 | PC31UD69V350A | 6,9URD31D08A0350 |
| | 400 | 690 | 19 | 110 | 68 | B300013 | PC31UD69V400A | 6,9URD31D08A0400 |
| | 450 | 690 | 26.5 | 150 | 70 | C300014 | PC31UD69V450A | 6,9URD31D08A0450 |
| | 500 | 690 | 37 | 210 | 72 | D300015 | PC31UD69V500A | 6,9URD31D08A0500 |
| | 550 | 690 | 52 | 300 | 75 | E300016 | PC31UD69V550A | 6,9URD31D08A0550 |
| | 630 | 690 | 75 | 421 | 85 | F300017 | PC31UD69V630A | 6,9URD31D08A0630 |
| | 700 | 690 | 95 | 530 | 95 | G300018 | PC31UD69V700A | 6,9URD31D08A0700 |
| 800 | 690 | 140 | 880 | 120 | D300406 | PC31UD69V800A | 6,9URD31D08A0800 | |
| 32 | 400 | 690 | 15 | 86 | 75 | E300177 | PC32UD69V400A | 6,9URD32D08A0400 |
| | 450 | 690 | 22 | 124 | 80 | F300178 | PC32UD69V450A | 6,9URD32D08A0450 |
| | 500 | 690 | 28 | 157 | 90 | G300179 | PC32UD69V500A | 6,9URD32D08A0500 |
| | 550 | 690 | 37 | 211 | 95 | H300180 | PC32UD69V550A | 6,9URD32D08A0550 |
| | 630 | 690 | 54 | 302 | 105 | J300181 | PC32UD69V630A | 6,9URD32D08A0630 |
| | 700 | 690 | 76 | 432 | 110 | K300182 | PC32UD69V700A | 6,9URD32D08A0700 |
| | 800 | 690 | 115 | 648 | 120 | L300183 | PC32UD69V800A | 6,9URD32D08A0800 |
| | 900 | 690 | 170 | 972 | 125 | M300184 | PC32UD69V900A | 6,9URD32D08A0900 |
| | 1000 | 690 | 240 | 1350 | 135 | N300185 | PC32UD69V1000A | 6,9URD32D08A1000 |
| | 1100 | 600 | 270 | 1450 | 165 | W302101 | PC32UD60V1100A | 6URD32D08A1100 |
| | 1250 | 550 | 410 | 1950 | 180 | G300409 | PC32UD50V1250A | 5,5URD32D08A1250 |
| 33 | 500 | 690 | 19 | 108 | 105 | G300248 | PC33UD69V500A | 6,9URD33D08A0500 |
| | 550 | 690 | 27 | 151 | 110 | H300249 | PC33UD69V550A | 6,9URD33D08A0550 |
| | 630 | 690 | 40 | 227 | 120 | J300250 | PC33UD69V630A | 6,9URD33D08A0630 |
| | 700 | 690 | 55 | 324 | 125 | K300251 | PC33UD69V700A | 6,9URD33D08A0700 |
| | 800 | 690 | 95 | 529 | 130 | L300252 | PC33UD69V800A | 6,9URD33D08A0800 |
| | 900 | 690 | 135 | 760 | 135 | M300253 | PC33UD69V900A | 6,9URD33D08A0900 |
| | 1000 | 690 | 170 | 970 | 155 | N300254 | PC33UD69V1000A | 6,9URD33D08A1000 |
| | 1100 | 690 | 240 | 1360 | 160 | P300255 | PC33UD69V1100A | 6,9URD33D08A1100 |
| | 1250 | 690 | 350 | 2000 | 180 | Q300256 | PC33UD69V1250A | 6,9URD33D08A1250 |
| | 1400 | 690 | 480 | 2700 | 200 | R300257 | PC33UD69V1400A | 6,9URD33D08A1400 |
| | 1500 | 600 | 500 | | 220 | M235071 | PC33UD60V1500A | 6URD33D08A1500 |
| | 1600 | 600 | 555 | 3250 | 240 | X301803 | PC33UD60V1600A | 6URD33D08A1600 |
| | 1800 | 600 | 720 | | 260 | E301971 | PC33UD60V1800A | 6URD33D08A1800 |

*Legacy Description for reference only

PSC Square Body

450-700VAC; 40-2500A; aR

690 Volt European/IEC Style Ratings and Application Data, EF Mounting

| Body Size | Current Rating I_n (A) | Rated Voltage V_n (V) (IEC) | Melting I^2t ($A^2s \times 10^3$) | Total Clearing I^2t @ V_n ($A^2s \times 10^3$) | Watts Loss @ I_n (W) | Reference No. | Catalog No. | Legacy Description* |
|-----------|--------------------------|-------------------------------|---------------------------------------|--|------------------------|-----------------|-----------------|---------------------|
| 30 | 50 | 690 | 0.116 | 0.68 | 9 | R300372 | PC30UD69V50EF | 6,9URD30EF0050 |
| | 63 | 690 | 0.2 | 1.2 | 14 | H300088 | PC30UD69V63EF | 6,9URD30EF0063 |
| | 80 | 690 | 0.33 | 1.9 | 19 | J300089 | PC30UD69V80EF | 6,9URD30EF0080 |
| | 100 | 690 | 0.47 | 2.7 | 26 | K300090 | PC30UD69V100EF | 6,9URD30EF0100 |
| | 125 | 690 | 0.85 | 4.9 | 30 | L300091 | PC30UD69V125EF | 6,9URD30EF0125 |
| | 160 | 690 | 1.6 | 9.2 | 37 | M300092 | PC30UD69V160EF | 6,9URD30EF0160 |
| | 200 | 690 | 3 | 16.7 | 43 | N300093 | PC30UD69V200EF | 6,9URD30EF0200 |
| | 250 | 690 | 5.8 | 32.4 | 50 | P300094 | PC30UD69V250EF | 6,9URD30EF0250 |
| | 315 | 690 | 12 | 67 | 55 | Q300095 | PC30UD69V315EF | 6,9URD30EF0315 |
| | 350 | 690 | 15.5 | 86 | 60 | R300096 | PC30UD69V350EF | 6,9URD30EF0350 |
| 400 | 690 | 23 | 130 | 65 | S300097 | PC30UD69V400EF | 6,9URD30EF0400 | |
| 31 | 200 | 690 | 2.6 | 14.6 | 45 | C300037 | PC31UD69V200EF | 6,9URD31EF0200 |
| | 250 | 690 | 4.7 | 27 | 52 | D300038 | PC31UD69V250EF | 6,9URD31EF0250 |
| | 315 | 690 | 7.5 | 43 | 65 | E300039 | PC31UD69V315EF | 6,9URD31EF0315 |
| | 350 | 690 | 10.5 | 59 | 67 | N300047 | PC31UD69V350EF | 6,9URD31EF0350 |
| | 400 | 690 | 19 | 110 | 68 | F300040 | PC31UD69V400EF | 6,9URD31EF0400 |
| | 450 | 690 | 26.5 | 150 | 70 | G300041 | PC31UD69V450EF | 6,9URD31EF0450 |
| | 500 | 690 | 37 | 210 | 72 | H300042 | PC31UD69V500EF | 6,9URD31EF0500 |
| | 550 | 690 | 52 | 300 | 75 | J300043 | PC31UD69V550EF | 6,9URD31EF0550 |
| | 630 | 690 | 75 | 421 | 85 | K300044 | PC31UD69V630EF | 6,9URD31EF0630 |
| 700 | 690 | 95 | 530 | 95 | L300045 | PC31UD69V700EF | 6,9URD31EF0700 | |
| 32 | 400 | 690 | 15 | 86 | 75 | V300168 | PC32UD69V400EF | 6,9URD32EF0400 |
| | 450 | 690 | 22 | 124 | 80 | W300169 | PC32UD69V450EF | 6,9URD32EF0450 |
| | 500 | 690 | 28 | 157 | 90 | X300170 | PC32UD69V500EF | 6,9URD32EF0500 |
| | 550 | 690 | 37 | 211 | 95 | Y300171 | PC32UD69V550EF | 6,9URD32EF0550 |
| | 630 | 690 | 54 | 302 | 105 | Z300172 | PC32UD69V630EF | 6,9URD32EF0630 |
| | 700 | 690 | 76 | 432 | 110 | A300173 | PC32UD69V700EF | 6,9URD32EF0700 |
| | 800 | 690 | 115 | 648 | 120 | B300174 | PC32UD69V800EF | 6,9URD32EF0800 |
| | 900 | 690 | 170 | 972 | 125 | C300175 | PC32UD69V900EF | 6,9URD32EF0900 |
| 1000 | 690 | 240 | 1350 | 135 | D300176 | PC32UD69V1000EF | 6,9URD32EF1000 | |
| 33 | 500 | 690 | 19 | 108 | 105 | Z300218 | PC33UD69V500EF | 6,9URD33EF0500 |
| | 550 | 690 | 27 | 151 | 110 | A300219 | PC33UD69V550EF | 6,9URD33EF0550 |
| | 630 | 690 | 40 | 227 | 120 | B300220 | PC33UD69V630EF | 6,9URD33EF0630 |
| | 700 | 690 | 55 | 324 | 125 | C300221 | PC33UD69V700EF | 6,9URD33EF0700 |
| | 800 | 690 | 95 | 529 | 130 | D300222 | PC33UD69V800EF | 6,9URD33EF0800 |
| | 900 | 690 | 135 | 760 | 135 | E300223 | PC33UD69V900EF | 6,9URD33EF0900 |
| | 1000 | 690 | 170 | 970 | 155 | F300224 | PC33UD69V1000EF | 6,9URD33EF1000 |
| | 1100 | 690 | 240 | 1360 | 160 | G300225 | PC33UD69V1100EF | 6,9URD33EF1100 |
| | 1250 | 690 | 350 | 2000 | 180 | H300226 | PC33UD69V1250EF | 6,9URD33EF1250 |
| 1400 | 6960 | 480 | 2700 | 200 | J300227 | PC33UD69V1400EF | 6,9URD33EF1400 | |

*Legacy Description for reference only

PSC Square Body

450-700VAC; 40-2500A; aR

690 Volt European/IEC Style Ratings and Application Data, TTF Mounting

| Body Size | Current Rating I _n (A) | Rated Voltage V _n (V) (IEC) | Melting I ² t (A ² s x 10 ³) | Total Clearing I ² t @ V _n (A ² s x 10 ³) | Watts Loss @ I _n (W) | Reference No. | Catalog No. | Legacy Description* |
|-----------|-----------------------------------|--|--|--|---------------------------------|-----------------|-----------------|---------------------|
| 30 | 50 | 690 | 0.116 | 0.68 | 9 | S300373 | PC30UD69V50TF | 6,9URD30TTF0050 |
| | 63 | 690 | 0.2 | 1.2 | 14 | M300000 | PC30UD69V63TF | 6,9URD30TTF0063 |
| | 80 | 690 | 0.33 | 1.9 | 19 | S300051 | PC30UD69V80TF | 6,9URD30TTF0080 |
| | 100 | 690 | 0.47 | 2.7 | 26 | T300052 | PC30UD69V100TF | 6,9URD30TTF0100 |
| | 125 | 690 | 0.85 | 4.9 | 30 | V300053 | PC30UD69V125TF | 6,9URD30TTF0125 |
| | 160 | 690 | 1.6 | 9.2 | 37 | W300054 | PC30UD69V160TF | 6,9URD30TTF0160 |
| | 200 | 690 | 3 | 16.7 | 42 | X300055 | PC30UD69V200TF | 6,9URD30TTF0200 |
| | 250 | 690 | 5.8 | 32.4 | 48 | Y300056 | PC30UD69V250TF | 6,9URD30TTF0250 |
| | 315 | 690 | 12 | 67 | 53 | Z300057 | PC30UD69V315TF | 6,9URD30TTF0315 |
| | 350 | 690 | 15.5 | 86 | 57 | A300058 | PC30UD69V350TF | 6,9URD30TTF0350 |
| | 400 | 690 | 23 | 130 | 60 | B300059 | PC30UD69V400TF | 6,9URD30TTF0400 |
| | 450 | 690 | 26 | 165 | 80 | V300398 | PC30UD69V450TF | 6,9URD30TTF0450 |
| | 500 | 690 | 41 | 264 | 80 | W300399 | PC30UD69V500TF | 6,9URD30TTF0500 |
| 550 | 690 | 52 | 330 | 80 | X300400 | PC30UD69V550TF | 6,9URD30TTF0550 | |
| 31 | 200 | 690 | 2.6 | 14.6 | 45 | N300001 | PC31UD69V200TF | 6,9URD31TTF0200 |
| | 250 | 690 | 4.7 | 27 | 52 | P300002 | PC31UD69V250TF | 6,9URD31TTF0250 |
| | 315 | 690 | 7.5 | 43 | 65 | Q300003 | PC31UD69V315TF | 6,9URD31TTF0315 |
| | 350 | 690 | 10.5 | 59 | 67 | M300046 | PC31UD69V350TF | 6,9URD31TTF0350 |
| | 400 | 690 | 19 | 110 | 68 | R300004 | PC31UD69V400TF | 6,9URD31TTF0400 |
| | 450 | 690 | 26.5 | 150 | 70 | S300005 | PC31UD69V450TF | 6,9URD31TTF0450 |
| | 500 | 690 | 37 | 210 | 70 | T300006 | PC31UD69V500TF | 6,9URD31TTF0500 |
| | 550 | 690 | 52 | 300 | 70 | V300007 | PC31UD69V550TF | 6,9URD31TTF0550 |
| | 630 | 690 | 75 | 421 | 75 | W300008 | PC31UD69V630TF | 6,9URD31TTF0630 |
| 700 | 690 | 95 | 530 | 85 | X300009 | PC31UD69V700TF | 6,9URD31TTF0700 | |
| 800 | 690 | 140 | 880 | 105 | Y300401 | PC31UD69V800TF | 6,9URD31TTF0800 | |
| 32 | 400 | 690 | 15 | 86 | 72 | H300065 | PC32UD69V400TF | 6,9URD32TTF0400 |
| | 450 | 690 | 22 | 124 | 77 | J300066 | PC32UD69V450TF | 6,9URD32TTF0450 |
| | 500 | 690 | 28 | 157 | 85 | K300067 | PC32UD69V500TF | 6,9URD32TTF0500 |
| | 550 | 690 | 37 | 211 | 90 | L300068 | PC32UD69V550TF | 6,9URD32TTF0550 |
| | 630 | 690 | 54 | 302 | 95 | M300069 | PC32UD69V630TF | 6,9URD32TTF0630 |
| | 700 | 690 | 76 | 432 | 100 | N300070 | PC32UD69V700TF | 6,9URD32TTF0700 |
| | 800 | 690 | 115 | 648 | 110 | P300071 | PC32UD69V800TF | 6,9URD32TTF0800 |
| | 900 | 690 | 170 | 972 | 110 | Q300072 | PC32UD69V900TF | 6,9URD32TTF0900 |
| | 1000 | 690 | 240 | 1350 | 115 | S300074 | PC32UD69V1000TF | 6,9URD32TTF1000 |
| | 1100 | 600 | 270 | 1450 | 140 | M300759 | PC32UD60V1100TF | 6URD32TTF1100 |
| 1250 | 500 | 410 | 1950 | 150 | P301060 | PC32UD55V1250TF | 5,5URD32TTF1250 | |
| 33 | 500 | 690 | 19 | 108 | 105 | V300076 | PC33UD69V500TF | 6,9URD33TTF0500 |
| | 550 | 690 | 27 | 151 | 105 | W300077 | PC33UD69V550TF | 6,9URD33TTF0550 |
| | 630 | 690 | 40 | 227 | 110 | X300078 | PC33UD69V630TF | 6,9URD33TTF0630 |
| | 700 | 690 | 55 | 324 | 115 | Y300079 | PC33UD69V700TF | 6,9URD33TTF0700 |
| | 800 | 690 | 95 | 529 | 120 | Z300080 | PC33UD69V800TF | 6,9URD33TTF0800 |
| | 900 | 690 | 135 | 760 | 120 | A300081 | PC33UD69V900TF | 6,9URD33TTF0900 |
| | 1000 | 690 | 170 | 970 | 135 | B300082 | PC33UD69V1000TF | 6,9URD33TTF1000 |
| | 1100 | 690 | 240 | 1360 | 135 | C300083 | PC33UD69V1100TF | 6,9URD33TTF1100 |
| | 1250 | 690 | 350 | 2000 | 150 | D300084 | PC33UD69V1250TF | 6,9URD33TTF1250 |
| | 1400 | 690 | 480 | 2700 | 160 | E300085 | PC33UD69V1400TF | 6,9URD33TTF1400 |
| | 1500 | 600 | 500 | 2500 | 220 | Y300585 | PC33UD60V1500TF | 6URD33TTF1500 |
| | 1600 | 600 | 555 | 3250 | 210 | Z300586 | PC33UD60V1600TF | 6URD33TTF1600 |
| | 1800 | 600 | 720 | 3870 | 225 | A300587 | PC33UD60V1800TF | 6URD33TTF1800 |
| | 2000 | 550 | 950 | 4500 | 250 | B300588 | PC33UD55V2000TF | 5,5URD33TTF2000 |
| | 2250 | 500 | 1250 | 5160 | 280 | K300757 | PC33UD50V2250TF | 5URD33TTF2250 |
| 2500 | 450 | 1870 | 6540 | 280 | L300758 | PC33UD45V2500TF | 4,5URD33TTF2500 | |

*Legacy Description for reference only

PSC Square Body

450-700VAC; 40-2500A; aR

700 Volt North American Style Ratings and Application Data, LI Mounting

| Body Size | Current Rating I_n (A) | Rated Voltage V_n (V) | Melting I^2t [$A^2s \times 10^3$] | Total Clearing $I^2t @ V_n$ [$A^2s \times 10^3$] | Watts Loss @ I_n (W) | Reference No. | Catalog No. | Legacy Description* |
|-----------|--------------------------|-------------------------|---------------------------------------|--|------------------------|----------------|-----------------|---------------------|
| 30 | 63 | 700 | 0.2 | 1.2 | 14 | M300138 | A070UD30LI63 | A070URD30LI0063 |
| | 80 | 700 | 0.33 | 1.9 | 19 | N300139 | A070UD30LI080 | A070URD30LI0080 |
| | 100 | 700 | 0.47 | 2.7 | 26 | P300140 | A070UD30LI100 | A070URD30LI0100 |
| | 125 | 700 | 0.85 | 4.9 | 30 | Q300141 | A070UD30LI125 | A070URD30LI0125 |
| | 160 | 700 | 1.6 | 9.2 | 37 | R300142 | A070UD30LI160 | A070URD30LI0160 |
| | 200 | 700 | 3 | 16.7 | 43 | S300143 | A070UD30LI200 | A070URD30LI0200 |
| | 250 | 700 | 5.8 | 32.4 | 50 | T300144 | A070UD30LI250 | A070URD30LI0250 |
| | 315 | 700 | 12 | 67 | 55 | V300145 | A070UD30LI315 | A070URD30LI0315 |
| | 350 | 700 | 15.5 | 86 | 60 | W300146 | A070UD30LI350 | A070URD30LI0350 |
| | 400 | 700 | 23 | 130 | 65 | X300147 | A070UD30LI400 | A070URD30LI0400 |
| | 450 | 700 | 26 | 165 | 88 | K300527 | A070UD30LI450 | A070URD30LI0450 |
| | 500 | 700 | 41 | 264 | 88 | L300528 | A070UD30LI500 | A070URD30LI0500 |
| 550 | 700 | 52 | 330 | 90 | M300529 | A070UD30LI550 | A070URD30LI0550 | |
| 31 | 200 | 700 | 2.6 | 14.6 | 45 | V300697 | A070UD31LI200 | A070URD31LI0200 |
| | 250 | 700 | 4.7 | 27 | 52 | W300698 | A070UD31LI250 | A070URD31LI0250 |
| | 315 | 700 | 7.5 | 43 | 65 | X300699 | A070UD31LI315 | A070URD31LI0315 |
| | 350 | 700 | 10.5 | 59 | 67 | Y300700 | A070UD31LI350 | A070URD31LI0350 |
| | 400 | 700 | 19 | 110 | 68 | Z300701 | A070UD31LI400 | A070URD31LI0400 |
| | 450 | 700 | 26.5 | 150 | 70 | A300702 | A070UD31LI450 | A070URD31LI0450 |
| | 500 | 700 | 37 | 210 | 72 | B300703 | A070UD31LI500 | A070URD31LI0500 |
| | 550 | 700 | 52 | 300 | 75 | C300704 | A070UD31LI550 | A070URD31LI0550 |
| | 630 | 700 | 75 | 421 | 85 | D300705 | A070UD31LI630 | A070URD31LI0630 |
| | 700 | 700 | 95 | 530 | 95 | E300706 | A070UD31LI700 | A070URD31LI0700 |
| 800 | 700 | 140 | 880 | 120 | F300707 | A070UD31LI800 | A070URD31LI0800 | |
| 32 | 400 | 700 | 15 | 86 | 75 | J300204 | A070UD32LI400 | A070URD32LI0400 |
| | 450 | 700 | 22 | 124 | 80 | K300205 | A070UD32LI450 | A070URD32LI0450 |
| | 500 | 700 | 28 | 157 | 90 | L300206 | A070UD32LI500 | A070URD32LI0500 |
| | 550 | 700 | 37 | 211 | 95 | M300207 | A070UD32LI550 | A070URD32LI0550 |
| | 630 | 700 | 54 | 302 | 105 | N300208 | A070UD32LI630 | A070URD32LI0630 |
| | 700 | 700 | 76 | 432 | 110 | P300209 | A070UD32LI700 | A070URD32LI0700 |
| | 800 | 700 | 115 | 648 | 120 | Q300210 | A070UD32LI800 | A070URD32LI0800 |
| | 900 | 700 | 170 | 972 | 125 | R300211 | A070UD32LI900 | A070URD32LI0900 |
| | 1000 | 700 | 240 | 1350 | 135 | S300212 | A070UD32LI1000 | A070URD32LI1000 |
| | 1100 | 650 | 270 | 1620 | 165 | B301071 | A065UD32LI1100 | A065URD32LI1100 |
| | 1250 | 600 | 410 | 2100 | 180 | C301072 | A060UD32LI1250 | A060URD32LI1250 |
| | 1400 | 550 | 555 | 2600 | 190 | D301073 | A055UD32LI1400 | A055URD32LI1400 |
| 1600 | 550 | 870 | 4000 | 195 | E301074 | A055UD32LI1600 | A055URD32LI1600 | |
| 1800 | 500 | 1050 | 4400 | 330 | F301075 | A050UD32LI1800 | A050URD32LI1800 | |
| 33 | 500 | 700 | 19 | 108 | 105 | K300228 | A070UD33LI500 | A070URD33LI0500 |
| | 550 | 700 | 27 | 151 | 110 | L300229 | A070UD33LI550 | A070URD33LI0550 |
| | 630 | 700 | 40 | 227 | 120 | M300230 | A070UD33LI630 | A070URD33LI0630 |
| | 700 | 700 | 55 | 324 | 125 | N300231 | A070UD33LI700 | A070URD33LI0700 |
| | 800 | 700 | 95 | 529 | 130 | P300232 | A070UD33LI800 | A070URD33LI0800 |
| | 900 | 700 | 135 | 760 | 135 | Q300233 | A070UD33LI900 | A070URD33LI0900 |
| | 1000 | 700 | 170 | 970 | 155 | R300234 | A070UD33LI1000 | A070URD33LI1000 |
| | 1100 | 700 | 240 | 1360 | 160 | S300235 | A070UD33LI1100 | A070URD33LI1100 |
| | 1250 | 700 | 350 | 2000 | 180 | T300236 | A070UD33LI1250 | A070URD33LI1250 |
| | 1400 | 700 | 480 | 2700 | 200 | V300237 | A070UD33LI1400 | A070URD33LI1400 |
| | 1600 | 650 | 555 | 3250 | 240 | G301076 | A065UD33LI1600 | A065URD33LI1600 |
| | 1800 | 650 | 720 | 4330 | 260 | H301077 | A065UD33LI1800 | A065URD33LI1800 |
| | 2000 | 600 | 950 | 5000 | 290 | J301078 | A060UD33LI2000 | A060URD33LI2000 |
| | 2250 | 550 | 1250 | 5900 | 330 | K301079 | A055UD33LI2250 | A055URD33LI2250 |
| 2500 | 500 | 1870 | 7600 | 330 | L301080 | A050UD33LI2500 | A050URD33LI2500 | |

*Legacy Description for reference only

PSC Square Body

450-700VAC; 40-2500A; aR

700 Volt North American Style Ratings and Application Data, KI Mounting

| Body Size | Current Rating I_n (A) | Rated Voltage V_n (V) | Melting I^2t ($A^2s \times 10^3$) | Total Clearing I^2t @ V_n ($A^2s \times 10^3$) | Watts Loss @ I_n (W) | Reference No. | Catalog No. | Legacy Description* |
|-----------|--------------------------|-------------------------|---------------------------------------|--|------------------------|---------------|-----------------|---------------------|
| 30 | 63 | 700 | 0.2 | 1.2 | 14 | B300128 | A070UD30KI63 | A070URD30KI0063 |
| | 80 | 700 | 0.33 | 1.9 | 19 | C300129 | A070UD30KI80 | A070URD30KI0080 |
| | 100 | 700 | 0.47 | 2.7 | 26 | D300130 | A070UD30KI100 | A070URD30KI0100 |
| | 125 | 700 | 0.85 | 4.9 | 30 | E300131 | A070UD30KI125 | A070URD30KI0125 |
| | 160 | 700 | 1.6 | 9.2 | 37 | F300132 | A070UD30KI160 | A070URD30KI0160 |
| | 200 | 700 | 3 | 16.7 | 43 | G300133 | A070UD30KI200 | A070URD30KI0200 |
| | 250 | 700 | 5.8 | 32.4 | 50 | H300134 | A070UD30KI250 | A070URD30KI0250 |
| | 315 | 700 | 12 | 67 | 55 | J300135 | A070UD30KI315 | A070URD30KI0315 |
| | 350 | 700 | 15.5 | 86 | 60 | K300136 | A070UD30KI350 | A070URD30KI0350 |
| | 400 | 700 | 23 | 130 | 65 | L300137 | A070UD30KI400 | A070URD30KI0400 |
| | 450 | 700 | 26 | 165 | 88 | T301064 | A070UD30KI450 | A070URD30KI0450 |
| | 500 | 700 | 41 | 264 | 88 | V301065 | A070UD30KI500 | A070URD30KI0500 |
| | 550 | 700 | 52 | 330 | 90 | W301066 | A070UD30KI550 | A070URD30KI0550 |
| 31 | 200 | 700 | 2.6 | 14.6 | 45 | S300028 | A070UD31KI200 | A070URD31KI0200 |
| | 250 | 700 | 4.7 | 27 | 52 | T300029 | A070UD31KI250 | A070URD31KI0250 |
| | 315 | 700 | 7.5 | 43 | 65 | V300030 | A070UD31KI315 | A070URD31KI0315 |
| | 350 | 700 | 10.5 | 59 | 67 | R300050 | A070UD31KI350 | A070URD31KI0350 |
| | 400 | 700 | 19 | 110 | 68 | W300031 | A070UD31KI400 | A070URD31KI0400 |
| | 450 | 700 | 26.5 | 150 | 70 | X300032 | A070UD31KI450 | A070URD31KI0450 |
| | 500 | 700 | 37 | 210 | 72 | Y300033 | A070UD31KI500 | A070URD31KI0500 |
| | 550 | 700 | 52 | 300 | 75 | Z300034 | A070UD31KI550 | A070URD31KI0550 |
| | 630 | 700 | 75 | 421 | 85 | A300035 | A070UD31KI630 | A070URD31KI0630 |
| | 700 | 700 | 95 | 530 | 95 | B300036 | A070UD31KI700 | A070URD31KI0700 |
| 800 | 700 | 140 | 880 | 120 | A301070 | A070UD31KI800 | A070URD31KI0800 | |
| 32 | 400 | 700 | 15 | 86 | 75 | Z300195 | A070UD32KI400 | A070URD32KI0400 |
| | 450 | 700 | 22 | 124 | 80 | A300196 | A070UD32KI450 | A070URD32KI0450 |
| | 500 | 700 | 28 | 157 | 90 | B300197 | A070UD32KI500 | A070URD32KI0500 |
| | 550 | 700 | 37 | 211 | 95 | C300198 | A070UD32KI550 | A070URD32KI0550 |
| | 630 | 700 | 54 | 302 | 105 | D300199 | A070UD32KI630 | A070URD32KI0630 |
| | 700 | 700 | 76 | 432 | 110 | E300200 | A070UD32KI700 | A070URD32KI0700 |
| | 800 | 700 | 115 | 648 | 120 | F300201 | A070UD32KI800 | A070URD32KI0800 |
| | 900 | 700 | 170 | 972 | 125 | G300202 | A070UD32KI900 | A070URD32KI0900 |
| | 1000 | 700 | 240 | 1350 | 135 | H300203 | A070UD32KI1000 | A070URD32KI1000 |
| 33 | 500 | 700 | 19 | 108 | 105 | W300238 | A070UD33KI500 | A070URD33KI0500 |
| | 550 | 700 | 27 | 151 | 110 | X300239 | A070UD33KI550 | A070URD33KI0550 |
| | 630 | 700 | 40 | 227 | 120 | Y300240 | A070UD33KI630 | A070URD33KI0630 |
| | 700 | 700 | 55 | 324 | 125 | Z300241 | A070UD33KI700 | A070URD33KI0700 |
| | 800 | 700 | 95 | 529 | 130 | A300242 | A070UD33KI800 | A070URD33KI0800 |
| | 900 | 700 | 135 | 760 | 135 | B300243 | A070UD33KI900 | A070URD33KI0900 |
| | 1000 | 700 | 170 | 970 | 155 | C300244 | A070UD33KI1000 | A070URD33KI1000 |
| | 1100 | 700 | 240 | 1360 | 160 | D300245 | A070UD33KI1100 | A070URD33KI1100 |
| | 1250 | 700 | 350 | 2000 | 180 | E300246 | A070UD33KI1250 | A070URD33KI1250 |
| | 1400 | 700 | 480 | 2700 | 200 | F300247 | A070UD33KI1400 | A070URD33KI1400 |
| | 1600 | 650 | 555 | 3250 | 240 | E302063 | A065UD33KI1600 | A065URD33KI1600 |

*Legacy Description for reference only

PSC Square Body

450-700VAC; 40-2500A; aR

700 Volt North American Style Ratings and Application Data, TTI Mounting

| Body Size | Current Rating I_n [A] | Rated Voltage V_n [V] | Melting I^2t [$A^2s \times 10^3$] | Total Clearing I^2t @ V_n [$A^2s \times 10^3$] | Watts Loss @ I_n [W] | Reference No. | Catalog No. | Legacy Description* |
|-----------|--------------------------|-------------------------|---------------------------------------|--|------------------------|-----------------|------------------|---------------------|
| 30 | 63 | 700 | 0.2 | 1.2 | 14 | A301967 | A070UD30TTI63 | A070URD30TTI0063 |
| | 80 | 700 | 0.33 | 1.9 | 19 | V301962 | A070UD30TTI80 | A070URD30TTI0080 |
| | 100 | 700 | 0.47 | 2.7 | 26 | W300744 | A070UD30TTI100 | A070URD30TTI0100 |
| | 125 | 700 | 0.85 | 4.9 | 30 | G300708 | A070UD30TTI125 | A070URD30TTI0125 |
| | 160 | 700 | 1.6 | 9.2 | 37 | N300576 | A070UD30TTI160 | A070URD30TTI0160 |
| | 200 | 700 | 3 | 16.7 | 42 | P300577 | A070UD30TTI200 | A070URD30TTI0200 |
| | 250 | 700 | 5.8 | 32.4 | 48 | Q300578 | A070UD30TTI250 | A070URD30TTI0250 |
| | 315 | 700 | 12 | 67 | 53 | R300579 | A070UD30TTI315 | A070URD30TTI0315 |
| | 350 | 700 | 15.5 | 86 | 57 | S300580 | A070UD30TTI350 | A070URD30TTI0350 |
| | 400 | 700 | 23 | 130 | 60 | T300581 | A070UD30TTI400 | A070URD30TTI0400 |
| | 450 | 700 | 26 | 165 | 80 | V300582 | A070UD30TTI450 | A070URD30TTI0450 |
| | 500 | 700 | 41 | 264 | 80 | W300583 | A070UD30TTI500 | A070URD30TTI0500 |
| 550 | 700 | 52 | 330 | 80 | X300584 | A070UD30TTI550 | A070URD30TTI0550 | |
| 31 | 200 | 700 | 2.6 | 14.6 | 45 | A300472 | A070UD31TTI200 | A070URD31TTI0200 |
| | 250 | 700 | 4.7 | 27 | 52 | B300473 | A070UD31TTI250 | A070URD31TTI0250 |
| | 315 | 700 | 7.5 | 43 | 65 | C300474 | A070UD31TTI315 | A070URD31TTI0315 |
| | 350 | 700 | 10.5 | 59 | 67 | D300475 | A070UD31TTI350 | A070URD31TTI0350 |
| | 400 | 700 | 19 | 110 | 68 | E300476 | A070UD31TTI400 | A070URD31TTI0400 |
| | 450 | 700 | 26.5 | 150 | 70 | F300477 | A070UD31TTI450 | A070URD31TTI0450 |
| | 500 | 700 | 37 | 210 | 70 | G300478 | A070UD31TTI500 | A070URD31TTI0500 |
| | 550 | 700 | 52 | 300 | 70 | H300479 | A070UD31TTI550 | A070URD31TTI0550 |
| | 630 | 700 | 75 | 421 | 75 | J300480 | A070UD31TTI630 | A070URD31TTI0630 |
| | 700 | 700 | 95 | 530 | 85 | K300481 | A070UD31TTI700 | A070URD31TTI0700 |
| 800 | 700 | 140 | 880 | 105 | L300482 | A070UD31TTI800 | A070URD31TTI0800 | |
| 32 | 400 | 700 | 15 | 86 | 72 | Q300463 | A070UD32TTI400 | A070URD32TTI0400 |
| | 450 | 700 | 22 | 124 | 77 | N300461 | A070UD32TTI450 | A070URD32TTI0450 |
| | 500 | 700 | 28 | 157 | 85 | P300462 | A070UD32TTI500 | A070URD32TTI0500 |
| | 550 | 700 | 37 | 211 | 90 | R300464 | A070UD32TTI550 | A070URD32TTI0550 |
| | 630 | 700 | 54 | 302 | 95 | S300465 | A070UD32TTI630 | A070URD32TTI0630 |
| | 700 | 700 | 76 | 432 | 100 | T300466 | A070UD32TTI700 | A070URD32TTI0700 |
| | 800 | 700 | 115 | 648 | 110 | V300467 | A070UD32TTI800 | A070URD32TTI0800 |
| | 900 | 700 | 170 | 972 | 110 | W300468 | A070UD32TTI900 | A070URD32TTI0900 |
| | 1000 | 700 | 240 | 1350 | 115 | X300469 | A070UD32TTI1000 | A070URD32TTI1000 |
| | 1100 | 650 | 270 | 1620 | 140 | M301081 | A065UD32TTI1100 | A065URD32TTI1100 |
| | 1250 | 600 | 410 | 2100 | 150 | N301082 | A060UD32TTI1250 | A060URD32TTI1250 |
| | 1400 | 550 | 555 | 2600 | 160 | P301083 | A055UD32TTI1400 | A055URD32TTI1400 |
| | 1600 | 550 | 870 | 4000 | 165 | Q301084 | A055UD32TTI1600 | A055URD32TTI1600 |
| 1800 | 500 | 1050 | 4400 | 195 | R301085 | A050UD32TTI1800 | A050URD32TTI1800 | |
| 33 | 500 | 700 | 19 | 108 | 105 | X300446 | A070UD33TTI500 | A070URD33TTI0500 |
| | 550 | 700 | 27 | 151 | 105 | Y300447 | A070UD33TTI550 | A070URD33TTI0550 |
| | 630 | 700 | 40 | 227 | 110 | Z300448 | A070UD33TTI630 | A070URD33TTI0630 |
| | 700 | 700 | 55 | 324 | 115 | A300449 | A070UD33TTI700 | A070URD33TTI0700 |
| | 800 | 700 | 95 | 529 | 120 | T300443 | A070UD33TTI800 | A070URD33TTI0800 |
| | 900 | 700 | 135 | 760 | 120 | B300450 | A070UD33TTI900 | A070URD33TTI0900 |
| | 1000 | 700 | 170 | 970 | 135 | C300451 | A070UD33TTI1000 | A070URD33TTI1000 |
| | 1100 | 700 | 240 | 1360 | 135 | D300452 | A070UD33TTI1100 | A070URD33TTI1100 |
| | 1250 | 700 | 350 | 2000 | 150 | E300453 | A070UD33TTI1250 | A070URD33TTI1250 |
| | 1400 | 700 | 480 | 2700 | 160 | F300454 | A070UD33TTI1400 | A070URD33TTI1400 |
| | 1600 | 650 | 555 | 3250 | 210 | S301086 | A065UD33TTI1600 | A065URD33TTI1600 |
| | 1800 | 650 | 720 | 4330 | 225 | T301087 | A065UD33TTI1800 | A065URD33TTI1800 |
| | 2000 | 600 | 950 | 5000 | 250 | V301088 | A060UD33TTI2000 | A060URD33TTI2000 |
| | 2250 | 550 | 1250 | 5900 | 280 | W301089 | A055UD33TTI2250 | A055URD33TTI2250 |
| | 2500 | 500 | 1870 | 7600 | 280 | Y300838 | A050UD33TTI2500 | A050URD33TTI2500 |

Refer to drawings for specific dimensions.

*Legacy Description for reference only

Body Size 30, 31, 32, 33, 2x32 and 2x33

PSC Square Body

450-700VAC; 40-2500A; aR

690/700 Volt, 2x32, 2x33 Protection High speed fuses

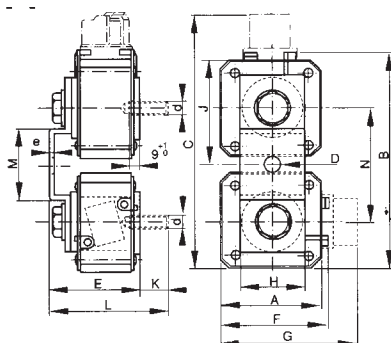
| Size | Reference No. | Catalog No. | Legacy Description* | Weight [g] | |
|--------|---------------|-----------------|---------------------|-------------------|------|
| 2 X 32 | T300213 | PC232UD69V10CTF | 6,9URD232TTF1000 | 1240 | |
| | V300214 | PC232UD69V13CTF | 6,9URD232TTF1250 | | |
| | G300087 | PC232UD69V14CTF | 6,9URD232TTF1400 | | |
| | 2 X 32 | W300215 | PC232UD69V16CTD | 6,9URD232TDF1600 | 3300 |
| | | X300216 | PC232UD69V18CTD | 6,9URD232TDF1800 | |
| | | Y300217 | PC232UD69V20CTD | 6,9URD232TDF2000 | |
| | | D301993 | PC232UD55V22CTD | 5,5URD232TDF2200 | |
| 2 X 33 | D300268 | PC233UD66V13CTF | 6,6URD233TTF1250 | 1900 | |
| | E300269 | PC233UD66V14CTF | 6,6URD233TTF1400 | | |
| | F300270 | PC233UD66V16CTF | 6,6URD233TTF1600 | | |
| | 2 X 33 | B300427 | PC36UD69V18CP11 | 6,9URD233PLAF1800 | 2000 |
| | | R302235 | PC36UD60V20CP11 | 6URD233PLAF2000 | |
| | | Q302234 | PC36UD60V22CP11 | 6URD233PLAF2200 | |
| | | P302233 | PC36UD60V25CP11 | 6URD233PLAF2500 | |
| | | N302232 | PC36UD60V28CP11 | 6URD233PLAF2800 | |
| | | L301977 | PC36UD55V30CP11 | 5,5URD233PLAF3000 | |
| | | M301978 | PC36UD55V32CP11 | 5,5URD233PLAF3200 | |
| | | N301979 | PC36UD50V36CP11 | 5URD233PLAF3600 | |
| | | P301980 | PC36UD50V40CP11 | 5URD233PLAF4000 | |
| | | Q301981 | PC36UD45V45CP11 | 4,5URD233PLAF4500 | |
| | | R301982 | PC36UD40V50CP11 | 4URD233PLAF5000 | |

*Legacy Description for reference only

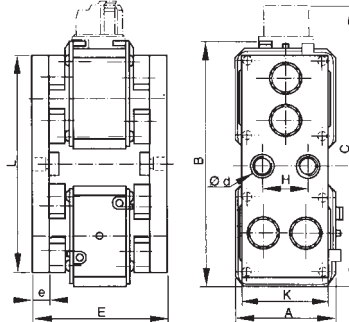
DIMENSIONS (MM)

| Size | A | B | C | D | E | F | G | H | J | K | d | e | L | M | N |
|-----------|------|-------|-----|----|------|------|-----|----|----|----|------|----|-------|----|----|
| 2x32 TT | 60 | 138.5 | 172 | 11 | 67.6 | 66.5 | 100 | 35 | 61 | 40 | M 10 | 4 | 107.5 | 48 | 72 |
| 2x33 TT | 74.4 | 167 | 200 | 13 | 67.6 | 81 | 114 | 50 | 80 | 40 | M 12 | 4 | 107.5 | 54 | 86 |
| 2x32 TD | 65.5 | 147 | 182 | - | 91.5 | - | - | 30 | - | 60 | M 10 | 12 | 140 | - | - |
| 2x33 PLAF | 75 | 171.5 | 207 | - | 55.5 | - | 115 | 40 | - | 71 | M 10 | 15 | 81 | - | - |

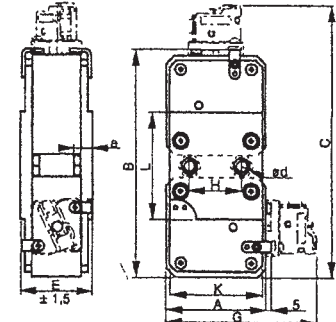
TT



TD



PLAF



Studs and microswitches supplied separately

PSC Square Body

650-1300VAC; 50-1800A; aR

Mersen 1250/1300V PSC square body fuses provide maximum flexibility in equipment design and ultimate protection for today's power conversion equipment. These square body fuses are available in four different body sizes, each size having more than four worldwide acceptable mounting styles. The different mounting styles and body sizes along with a broad range of ampere ratings allow greatest flexibility in equipment design.

FEATURES/BENEFITS:

- Choice of mounting styles gives wide choice for equipment design
- Broad range of ampere ratings in a given body size for design flexibility
- UL/CSA/IEC 60269-4 compliance for worldwide semiconductor applications

FUSE BLOCKS:

| Catalog No. |
|-----------------|
| SI TT 70/71 |
| SI TT 72/73 |
| SI DIN 110 630 |
| SI DIN 110 1250 |

See Fusegear section for product details.



RATINGS:

- **Volts:** 650-1300 VAC, DC - Consult Factory
- **Amps:** 50-1800A
- **IR:** 100kA AC

APPLICATIONS:

- Protection of rectifiers, inverters, DC drives, UPS Systems, reduced voltage motor starters, and other equipment in globally accepted applications

APPROVALS:

- UL recognized component File E76491
- IEC 60269-4 certified
- CSA 012636 0 000
- CCC approved

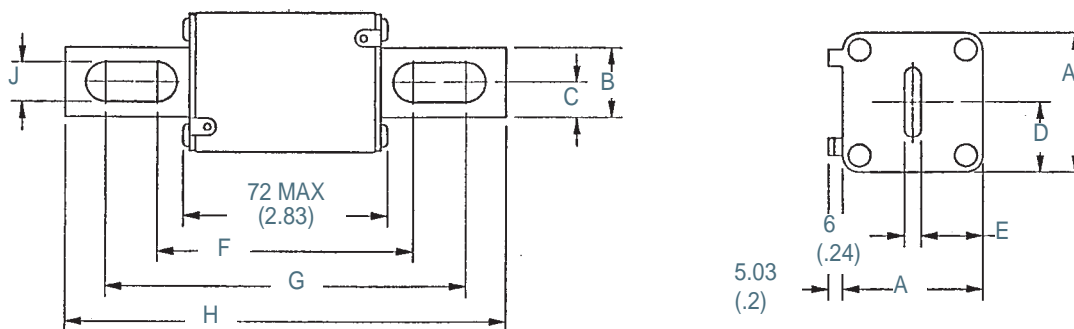


DIMENSIONS:

North American Straight Blade, Types LI & LLI

| Body Size | Type | Dimensions - mm (in) | | | | | | | | |
|-----------|------|----------------------|-----------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|
| | | A | B | C | D | E | F | G | H | J |
| 70 | LI | 41 (1.61) | 25 (0.98) | 12.5 (0.49) | 20.5 (0.81) | 17.5 (0.69) | 91.4 (3.60) | 130.4 (5.13) | 152.4 (6.00) | 10.5 (0.41) |
| 71 | LLI | 51 (2.01) | 25 (0.98) | 12.5 (0.49) | 25.5 (1.00) | 22.5 (0.89) | 91.4 (3.60) | 130.4 (5.13) | 152.4 (6.00) | 10.5 (0.41) |
| 72 | LI | 60 (2.36) | 32 (1.26) | 16 (0.63) | 30 (1.18) | 27 (1.06) | 97.6 (3.84) | 132.4 (5.2) | 157.4 (6.20) | 14.6 (0.57) |
| 73 | | 73 (2.87) | 40 (1.57) | 20 (0.79) | 36.5 (1.44) | 33.5 (1.32) | 98.8 (3.89) | 132.4 (5.21) | 157.4 (6.20) | 15.9 (0.63) |

Outline Dimensions: Types LI and LLI



PSC Square Body

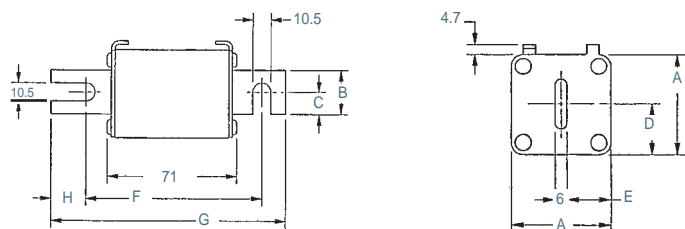
650-1300VAC; 50-1800A; aR

DIMENSIONS:

European Blade DIN 110, Type D1A

| Body Size | Type | Dimensions - mm (in) | | | | | | |
|-----------|---------|----------------------|-----------|------------|-------------|--------------|--------------|--------------|
| | | A | B | C | D | E | F | G |
| 70 | DIN 110 | 40 [1.57] | 25 [.98] | 12.5 [.49] | 21 [.83] | 17 [.67] | 100.4 [3.95] | 133.4 [5.25] |
| 71 | | 51 [2.01] | 25 [.98] | 12.5 [.49] | 25.5 [1.00] | 22.5 [.89] | 100.4 [3.95] | 133.4 [5.25] |
| 72 | | 60 [2.36] | 32 [1.26] | 16 [.63] | 30 [1.18] | 27 [1.06] | 100.4 [3.95] | 133.4 [5.25] |
| 73 | | 74.5 [2.93] | 40 [1.57] | 20 [.79] | 37.2 [1.46] | 34.25 [1.35] | 100.4 [3.95] | 133.4 [5.25] |

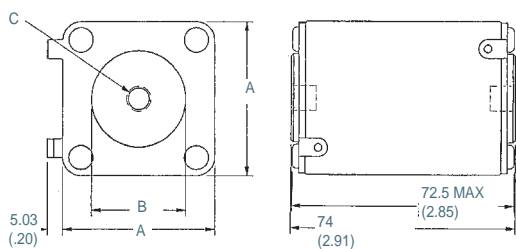
Outline Dimensions: Type D1A



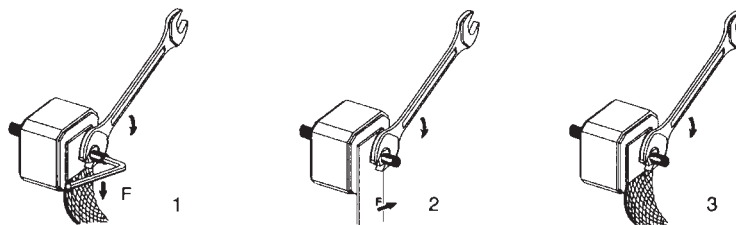
1250/1300 Volt North American and European Tap Single Hole, Type TTI/TTF

| Body Size | Type | Dimensions - mm/(In) | | Tapped Hole (N. A.) | Tapped Hole (EURO.) |
|-----------|---------|----------------------|-------------|---------------------|---------------------|
| | | A | B | C (TTI) | D (TTF) |
| 70 | TTI/TTF | 40 [1.57] | 25 [1.00] | 5/16-18 X 0.23 DP | M8 X 1.25 X 6 DP |
| 71 | | 50.8 [2.00] | 30.2 [1.19] | 5/16-18 X 0.36 DP | M8 X 1.25 X 9 DP |
| 72 | | 60.3 [2.37] | 38.1 [1.50] | 3/8-16 X 0.36 DP | M10 X 1.50 X 9 DP |
| 73 | | 74.6 [2.94] | 46 [1.81] | 1/2-13 X 0.35 DP | M12 X 1.75 X 9 DP |

Types TTI and TTF



Packaging: 6 pairs



Standard Threaded Studs

| Size | Reference No. Per Pair | Ref. and Dimension Per Pair of Studs | Weight (g) | Max Stud Mounting Torque (Nm)* | Max Nut Tightening Torque (Nm)* | | |
|---------|------------------------|--------------------------------------|------------|--------------------------------|---------------------------------|--------|--------|
| | | | | | Fig. 1 | Fig. 2 | Fig. 3 |
| 70 & 71 | S098801 | HC M8 X 30 & M 8 X 35 | 23 | 13 | 13.5 | 13.5 | 13.5 |
| 72 | T098802 | HC M 10 X 30 & M 10 X 50 | 40 | | 26 | 26 | 26 |
| 73 | V098803 | HC M 12 X 35 & M 12 X 50 | 60 | | 46 | 46 | 15 |
| 2X72 | W098804 | HC M 10 X 50 | 50 | | 26 | 26 | 26 |
| 2X73 | X098805 | HC M 12 X 50 | 70 | | 46 | 46 | 15 |

Packaging: 6 pairs

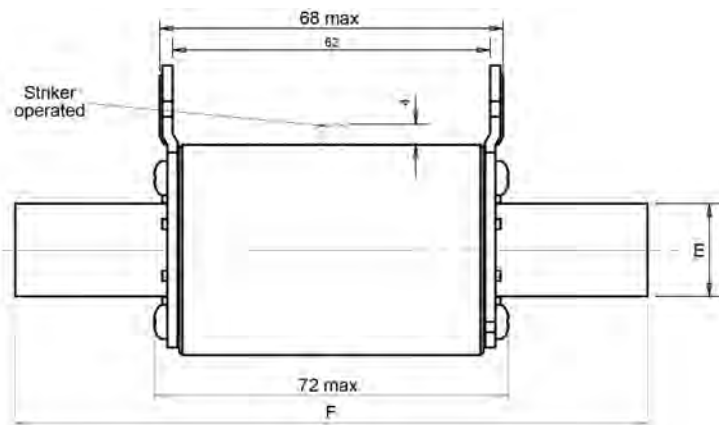
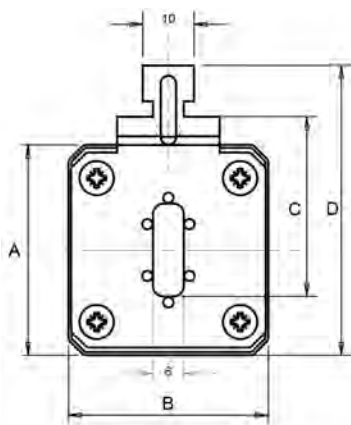
PSC Square Body

650-1300VAC; 50-1800A; aR

DIMENSIONS:

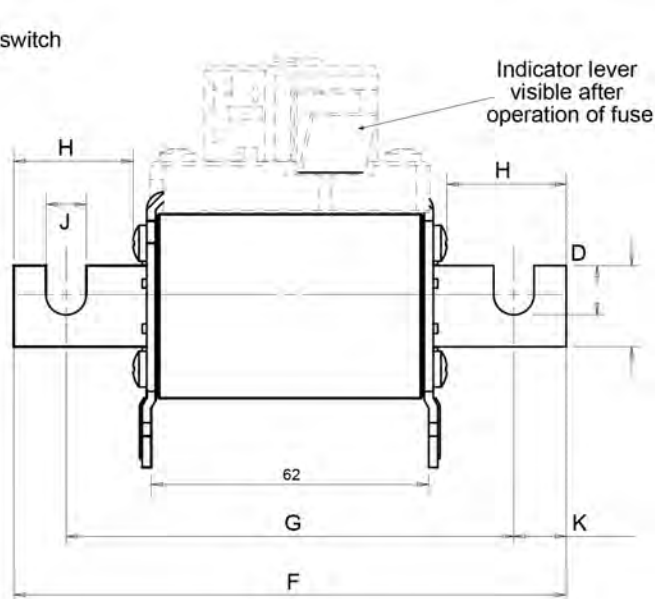
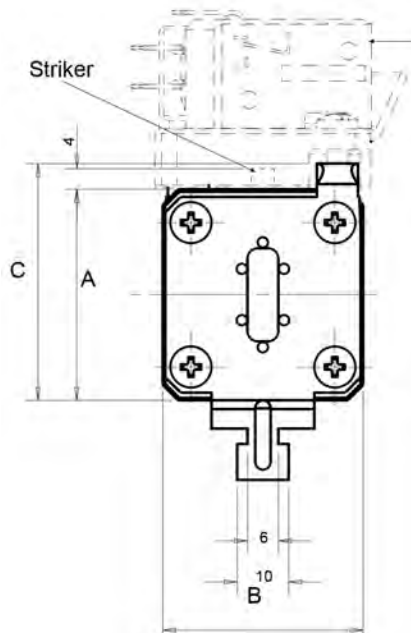
European Type NH Style Blade

| Body Size | Type | Dimensions - mm (in) | | | | | |
|-----------|------|----------------------|----------|------------|------------|----------|-------------|
| | | A | B | C | D | E | F |
| 70 | NH | 41(1.67) | 39(1.59) | 35(1.43) | 56.5(2.31) | 18(0.73) | 123.4(5.04) |
| 71 | | 51(2.08) | 51(2.08) | 40(1.63) | 63(2.57) | 25(1.02) | 138.8(5.67) |
| 72 | | 59(2.41) | 59(2.41) | 47.5(1.94) | 71.5(2.92) | 32(1.31) | 149.4(6.10) |
| 73 | | 73(2.98) | 73(2.98) | 60(2.45) | 86.5(3.53) | 40(1.63) | 149.4(6.10) |



European Type EF Style Notched Blade

| Body Size | Type | Dimensions - mm (in) | | | | | | | | | |
|-----------|------|----------------------|----------|------------|------------|----------|-------------|-------------|------------|------------|------------|
| | | A | B | C | D | E | F | G | H | J | K |
| 70 | EF | 41(1.67) | 39(1.59) | 46(1.88) | 11(0.45) | 18(0.73) | 123.4(5.04) | 100(4.08) | 26.7(1.09) | 9(0.37) | 11.7(0.48) |
| 71 | | 51(2.08) | 51(2.08) | 56.5(2.31) | 16.3(0.67) | 25(1.02) | 133.4(5.44) | 110(4.49) | 31.7(1.29) | 11.1(0.45) | 11.7(0.48) |
| 72 | | 59(2.41) | 59(2.41) | 65(2.65) | 21.2(0.87) | 32(1.31) | 149.4(6.10) | 114.4(4.67) | 40.7(1.66) | 13(0.53) | 17.5(0.71) |
| 73 | | 73(2.98) | 73(2.98) | 79(3.22) | 19.5(0.80) | 40(1.63) | 149.4(6.10) | 114.4(4.67) | 40.7(1.66) | 13(0.53) | 17.5(0.71) |



PSC Square Body

650-1300VAC; 50-1800A; aR

1300 Volt North American Style Ratings and Application Data, LI, LLI Mounting

| Body Size | Current Rating I_n (A) | Rated Voltage V_n (V) | Melting I^2t ($A^2s \times 10^3$) | Total Clearing I^2t @ V_n ($A^2s \times 10^3$) | Watts Loss @ I_n (W) | Reference No. | Catalog No. | Legacy Description* |
|-----------|--------------------------|-------------------------|---------------------------------------|--|------------------------|----------------|-----------------|---------------------|
| 70 | 63 | 1300 | 0.21 | 1.7 | 26 | W300652 | A130UD70LI063 | A130URD70LI0063 |
| | 80 | 1300 | 0.46 | 3.8 | 27 | X300653 | A130UD70LI080 | A130URD70LI0080 |
| | 100 | 1300 | 0.83 | 6.8 | 30 | Y300654 | A130UD70LI100 | A130URD70LI0100 |
| | 125 | 1300 | 1.3 | 11 | 38 | Z300655 | A130UD70LI125 | A130URD70LI0125 |
| | 160 | 1300 | 2.6 | 21 | 45 | A300656 | A130UD70LI160 | A130URD70LI0160 |
| | 200 | 1300 | 4.7 | 38 | 56 | B300657 | A130UD70LI200 | A130URD70LI0200 |
| | 250 | 1300 | 9.6 | 77 | 61 | C300658 | A130UD70LI250 | A130URD70LI0250 |
| | 315 | 1300 | 20 | 169 | 72 | D300659 | A130UD70LI315 | A130URD70LI0315 |
| | 350 | 1200 | 28 | 180 | 75 | E300660 | A120UD70LI350 | A120URD70LI0350 |
| 71 | 160 | 1300 | 2.6 | 21 | 46 | E300752 | A130UD71LLI160 | A130URD71LLI0160 |
| | 200 | 1300 | 4.7 | 38 | 54 | F300661 | A130UD71LLI200 | A130URD71LLI0200 |
| | 250 | 1300 | 8.9 | 72 | 61 | G300662 | A130UD71LLI250 | A130URD71LLI0250 |
| | 280 | 1300 | 12 | 96 | 70 | R300717 | A130UD71LLI280 | A130URD71LLI0280 |
| | 315 | 1300 | 16 | 129 | 76 | H300663 | A130UD71LLI315 | A130URD71LLI0315 |
| | 350 | 1300 | 22 | 178 | 80 | J300664 | A130UD71LLI350 | A130URD71LLI0350 |
| | 400 | 1300 | 38 | 308 | 80 | K300665 | A130UD71LLI400 | A130URD71LLI0400 |
| | 450 | 1300 | 47 | 378 | 95 | L300666 | A130UD71LLI450 | A130URD71LLI0450 |
| | 500 | 1200 | 68 | 441 | 100 | M300667 | A120UD71LLI500 | A120URD71LLI0500 |
| | 550 | 1200 | 84 | 548 | 112 | N300668 | A120UD71LLI550 | A120URD71LLI0550 |
| | 630 | 1100 | 126 | 820 | 120 | P300669 | A110UD71LLI630 | A110URD71LLI0630 |
| 72 | 280 | 1300 | 10 | 85 | 72 | Q300670 | A130UD72LI280 | A130URD72LI0280 |
| | 315 | 1300 | 15 | 125 | 76 | R300671 | A130UD72LI315 | A130URD72LI0315 |
| | 350 | 1300 | 21 | 170 | 77 | S300672 | A130UD72LI350 | A130URD72LI0350 |
| | 400 | 1300 | 33 | 270 | 80 | T300673 | A130UD72LI400 | A130URD72LI0400 |
| | 450 | 1300 | 44 | 360 | 89 | V300674 | A130UD72LI450 | A130URD72LI0450 |
| | 500 | 1300 | 57 | 465 | 98 | W300675 | A130UD72LI500 | A130URD72LI0500 |
| | 550 | 1300 | 68 | 550 | 120 | X300676 | A130UD72LI550 | A130URD72LI0550 |
| | 630 | 1200 | 106 | 860 | 125 | Y300677 | A120UD72LI630 | A120URD72LI0630 |
| | 700 | 1100 | 142 | 920 | 160 | Z300678 | A110UD72LI700 | A110URD72LI0700 |
| 800 | 1100 | 215 | 1400 | 146 | A300679 | A110UD72LI800 | A110URD72LI0800 | |
| 73 | 315 | 1300 | 12 | 95 | 84 | B300680 | A130UD73LI315 | A130URD73LI0315 |
| | 350 | 1300 | 17 | 140 | 86 | C300681 | A130UD73LI350 | A130URD73LI0350 |
| | 400 | 1300 | 25 | 203 | 93 | D300682 | A130UD73LI400 | A130URD73LI0400 |
| | 450 | 1300 | 35 | 290 | 100 | E300683 | A130UD73LI450 | A130URD73LI0450 |
| | 500 | 1300 | 44 | 360 | 112 | F300684 | A130UD73LI500 | A130URD73LI0500 |
| | 550 | 1300 | 57 | 465 | 120 | G300685 | A130UD73LI550 | A130URD73LI0550 |
| | 630 | 1300 | 84 | 680 | 132 | H300686 | A130UD73LI630 | A130URD73LI0630 |
| | 700 | 1300 | 113 | 900 | 146 | J300687 | A130UD73LI700 | A130URD73LI0700 |
| | 800 | 1200 | 190 | 1530 | 148 | V301824 | A130UD73LI800 | A130URD73LI0800 |
| | 900 | 1100 | 250 | 1460 | 170 | L300689 | A110UD73LI900 | A110URD73LI0900 |
| | 1000 | 1000 | 370 | 2130 | 174 | M300690 | A100UD73LI1000 | A100URD73LI1000 |
| | 1100 | 1000 | 445 | 2555 | 208 | N300691 | A100UD73LI1100 | A100URD73LI1100 |
| | 1250 | 1000 | 585 | 3080 | 230 | J301193 | A100UD73LI1250 | A100URD73LI1250 |
| | 1400 | 900 | 755 | 3700 | 260 | K301194 | A090UD73LI1400 | A090URD73LI1400 |
| | 1600 | 700 | 1430 | 5760 | 251 | P300876 | A070UD73LI1600 | A070URD73LI1600 |
| 1800 | 650 | 2040 | 7150 | 255 | A301599 | A065UD73LI1800 | A065URD73LI1800 | |

*Legacy Description for reference only

PSC Square Body

650-1300VAC; 50-1800A; aR

1300 Volt North American Style Ratings and Application Data, TTI Mounting

| Body Size | Current Rating I_n (A) | Rated Voltage V_n (V) | Melting I^2t ($A^2s \times 10^3$) | Total Clearing I^2t @ V_n ($A^2s \times 10^3$) | Watts Loss @ I_n (W) | Reference No. | Catalog No. | Legacy Description* |
|-----------|--------------------------|-------------------------|---------------------------------------|--|------------------------|-----------------|------------------|---------------------|
| 70 | 63 | 1300 | 0.21 | 1.7 | 26 | Q301015 | A130UD70TTI63 | A130URD70TTI0063 |
| | 80 | 1300 | 0.65 | 3.8 | 27 | R301016 | A130UD70TTI80 | A130URD70TTI0080 |
| | 100 | 1300 | 0.83 | 7.2 | 30 | S301017 | A130UD70TTI100 | A130URD70TTI0100 |
| | 125 | 1300 | 1.3 | 11 | 38 | T301018 | A130UD70TTI125 | A130URD70TTI0125 |
| | 160 | 1300 | 2.6 | 21 | 45 | V301019 | A130UD70TTI160 | A130URD70TTI0160 |
| | 200 | 1300 | 4.7 | 38 | 54 | W301020 | A130UD70TTI200 | A130URD70TTI0200 |
| | 250 | 1300 | 9.6 | 77 | 58 | X301021 | A130UD70TTI250 | A130URD70TTI0250 |
| | 315 | 1300 | 20 | 149 | 66 | Z301023 | A130UD70TTI315 | A130URD70TTI0315 |
| | 350 | 1200 | 28 | 180 | 68 | A301024 | A120UD70TTI350 | A120URD70TTI0350 |
| 71 | 160 | 1300 | 2.6 | 21 | 46 | B301025 | A130UD71TTI160 | A130URD71TTI0160 |
| | 200 | 1300 | 4.7 | 38 | 54 | C301026 | A130UD71TTI200 | A130URD71TTI0200 |
| | 250 | 1300 | 8.9 | 72 | 61 | D301027 | A130UD71TTI250 | A130URD71TTI0250 |
| | 280 | 1300 | 12 | 96 | 68 | E301028 | A130UD71TTI280 | A130URD71TTI0280 |
| | 315 | 1300 | 16 | 129 | 73 | F301029 | A130UD71TTI315 | A130URD71TTI0315 |
| | 350 | 1300 | 22 | 178 | 76 | G301030 | A130UD71TTI350 | A130URD71TTI0350 |
| | 400 | 1300 | 38 | 308 | 76 | H301031 | A130UD71TTI400 | A130URD71TTI0400 |
| | 450 | 1300 | 47 | 378 | 87 | J301032 | A130UD71TTI450 | A130URD71TTI0450 |
| | 500 | 1200 | 68 | 441 | 90 | K301033 | A130UD71TTI500 | A130URD71TTI0500 |
| | 550 | 1200 | 84 | 548 | 98 | L301034 | A120UD71TTI550 | A120URD71TTI0550 |
| | 630 | 1200 | 126 | 820 | 105 | M301035 | A120UD71TTI630 | A120URD71TTI0630 |
| 72 | 280 | 1300 | 10 | 85 | 72 | N301036 | A130UD72TTI280 | A130URD72TTI0280 |
| | 315 | 1300 | 15 | 125 | 76 | P301037 | A130UD72TTI315 | A130URD72TTI0315 |
| | 350 | 1300 | 21 | 170 | 77 | Q301038 | A130UD72TTI350 | A130URD72TTI0350 |
| | 400 | 1300 | 33 | 270 | 80 | R301039 | A130UD72TTI400 | A130URD72TTI0400 |
| | 450 | 1300 | 44 | 360 | 87 | S301040 | A130UD72TTI450 | A130URD72TTI0450 |
| | 500 | 1300 | 57 | 465 | 94 | T301041 | A130UD72TTI500 | A130URD72TTI0500 |
| | 550 | 1300 | 68 | 550 | 110 | V301042 | A130UD72TTI550 | A130URD72TTI0550 |
| | 630 | 1300 | 106 | 860 | 113 | W301043 | A130UD72TTI630 | A130URD72TTI0630 |
| | 700 | 1200 | 142 | 920 | 122 | X301044 | A120UD72TTI700 | A120URD72TTI0700 |
| | 800 | 1200 | 215 | 1400 | 125 | Y301045 | A120UD72TTI800 | A120URD72TTI0800 |
| 73 | 315 | 1300 | 12 | 102 | 84 | Z301046 | A130UD73TTI315 | A130URD73TTI0315 |
| | 350 | 1300 | 17 | 150 | 86 | A301047 | A130UD73TTI350 | A130URD73TTI0350 |
| | 400 | 1300 | 25 | 203 | 93 | B301048 | A130UD73TTI400 | A130URD73TTI0400 |
| | 450 | 1300 | 35 | 290 | 99 | C301049 | A130UD73TTI450 | A130URD73TTI0450 |
| | 500 | 1300 | 44 | 360 | 110/ | D301050 | A130UD73TTI500 | A130URD73TTI0500 |
| | 550 | 1300 | 57 | 465 | 116 | E301051 | A130UD73TTI550 | A130URD73TTI0550 |
| | 630 | 1300 | 84 | 680 | 125 | F301052 | A130UD73TTI630 | A130URD73TTI0630 |
| | 700 | 1300 | 113 | 900 | 135 | G301053 | A130UD73TTI700 | A130URD73TTI0700 |
| | 800 | 1300 | 190 | 1530 | 136 | H301054 | A130UD73TTI800 | A130URD73TTI0800 |
| | 900 | 1300 | 250 | 1660 | 150 | T1013903 | A130UD73TTI900 | A130URD73TTI0900 |
| | 1000 | 1000 | 370 | 2430 | 152 | K301056 | A110UD73TTI1000 | A110URD73TTI1000 |
| | 1100 | 1000 | 445 | 2255 | 168 | L301057 | A100UD73TTI1100 | A100URD73TTI1100 |
| | 1250 | 1000 | 585 | 3080 | 186 | M301058 | A100UD73TTI1250 | A100URD73TTI1250 |
| | 1400 | 900 | 755 | 3700 | 210 | N301059 | A090UD73TTI1400 | A090URD73TTI1400 |
| | 1600 | 700 | 1430 | 5740 | 203 | Q300877 | A070UD73TTI1600 | A070URD73TTI1600 |
| 1800 | 650 | 2040 | 7150 | 206 | R300878 | A065UD73TTI1800 | A065URD73TTI1800 | |

*Legacy Description for reference only

PSC Square Body

650-1300VAC; 50-1800A; aR

1250 Volt European/IEC Style Ratings and Application Data, DIN 110 Mounting

| Body Size | Current Rating I_n (A) | Rated Voltage V_n (V) | Melting I^2t ($A^2s \times 10^3$) | Total Clearing I^2t @ V_n ($A^2s \times 10^3$) | Watts Loss @ I_n (W) | Reference No. | Catalog No. | Legacy Description* |
|-----------|--------------------------|-------------------------|---------------------------------------|--|------------------------|-----------------|-----------------|---------------------|
| 70 | 50 | 1250 | 0.116 | 0.98 | 16 | J301906 | PC70UD13C50D1A | 12,5URD70D11A0050 |
| | 63 | 1250 | 0.21 | 1.7 | 26 | V300536 | PC70UD13C63D1A | 12,5URD70D11A0063 |
| | 80 | 1250 | 0.47 | 3.8 | 27 | W300537 | PC70UD13C80D1A | 12,5URD70D11A0080 |
| | 100 | 1250 | 0.83 | 6.7 | 30 | X300538 | PC70UD13C100D1A | 12,5URD70D11A0100 |
| | 125 | 1250 | 1.3 | 10.5 | 38 | Y300539 | PC70UD13C125D1A | 12,5URD70D11A0125 |
| | 160 | 1250 | 2.5 | 21 | 45 | Z300540 | PC70UD13C160D1A | 12,5URD70D11A0160 |
| | 200 | 1250 | 4.7 | 37.8 | 56 | A300541 | PC70UD13C200D1A | 12,5URD70D11A0200 |
| | 250 | 1250 | 9.6 | 77 | 61 | B300542 | PC70UD13C250D1A | 12,5URD70D11A0250 |
| | 280 | 1200 | 14 | 107 | 61 | J300710 | PC70UD12C280D1A | 12URD70D11A0280 |
| | 315 | 1200 | 20 | 150 | 66 | C300543 | PC70UD12C315D1A | 12URD70D11A0315 |
| | 350 | 1100 | 28 | 180 | 75 | D300544 | PC70UD11C350D1A | 11URD70D11A0350 |
| | 400 | 1100 | 39 | 254 | 81 | F300868 | PC70UD11C400D1A | 11URD70D11A0400 |
| 71 | 160 | 1250 | 2.6 | 21 | 46 | D300751 | PC71UD13C160D1A | 12,5URD71D11A0160 |
| | 200 | 1250 | 4.7 | 38 | 54 | E300545 | PC71UD13C200D1A | 12,5URD71D11A0200 |
| | 250 | 1250 | 8.9 | 71 | 61 | F300546 | PC71UD13C250D1A | 12,5URD71D11A0250 |
| | 315 | 1250 | 16 | 130 | 76 | G300547 | PC71UD13C315D1A | 12,5URD71D11A0315 |
| | 350 | 1250 | 22 | 180 | 80 | H300548 | PC71UD13C350D1A | 12,5URD71D11A0350 |
| | 400 | 1250 | 38 | 310 | 80 | J300549 | PC71UD13C400D1A | 12,5URD71D11A0400 |
| | 450 | 1250 | 47 | 380 | 95 | K300550 | PC71UD13C450D1A | 12,5URD71D11A0450 |
| | 500 | 1100 | 68 | 440 | 100 | L300551 | PC71UD11C500D1A | 11URD71D11A0500 |
| | 550 | 1100 | 84 | 540 | 112 | M300552 | PC71UD11C550D1A | 11URD71D11A0550 |
| | 630 | 1000 | 125 | 810 | 105 | N300553 | PC71UD10C630D1A | 10URD71D11A0630 |
| 72 | 280 | 1250 | 10 | 84 | 72 | P300554 | PC72UD13C280D1A | 12,5URD72D11A0280 |
| | 315 | 1250 | 15 | 122 | 76 | Q300555 | PC72UD13C315D1A | 12,5URD72D11A0315 |
| | 350 | 1250 | 21 | 170 | 77 | R300556 | PC72UD13C350D1A | 12,5URD72D11A0350 |
| | 400 | 1250 | 32.5 | 270 | 80 | S300557 | PC72UD13C400D1A | 12,5URD72D11A0400 |
| | 450 | 1250 | 44 | 360 | 89 | T300558 | PC72UD13C450D1A | 12,5URD72D11A0450 |
| | 500 | 1250 | 57 | 460 | 98 | V300559 | PC72UD13C500D1A | 12,5URD72D11A0500 |
| | 550 | 1250 | 68 | 550 | 120 | W300560 | PC72UD13C550D1A | 12,5URD72D11A0550 |
| | 630 | 1100 | 105 | 850 | 113 | X300561 | PC72UD11C630D1A | 11URD72D11A0630 |
| | 700 | 1000 | 145 | 910 | 122 | Y300562 | PC72UD10C700D1A | 10URD72D11A0700 |
| | 800 | 1000 | 215 | 1400 | 125 | Z300563 | PC72UD10C800D1A | 10URD72D11A0800 |
| 900 | 1000 | 312 | 1800 | 130 | H300870 | PC72UD10C900D1A | 10URD72D11A0900 | |
| 73 | 315 | 1250 | 12 | 95 | 84 | A300564 | PC73UD13C315D1A | 12,5URD73D11A0315 |
| | 350 | 1250 | 117 | 140 | 86 | B300565 | PC73UD13C350D1A | 12,5URD73D11A0350 |
| | 400 | 1250 | 25 | 200 | 93 | C300566 | PC73UD13C400D1A | 12,5URD73D11A0400 |
| | 450 | 1250 | 35.5 | 290 | 100 | D300567 | PC73UD13C450D1A | 12,5URD73D11A0450 |
| | 500 | 1250 | 44 | 360 | 112 | E300568 | PC73UD13C500D1A | 12,5URD73D11A0500 |
| | 550 | 1250 | 57 | 460 | 120 | F300569 | PC73UD13C550D1A | 12,5URD73D11A0550 |
| | 630 | 1250 | 84 | 680 | 132 | G300570 | PC73UD13C630D1A | 12,5URD73D11A0630 |
| | 700 | 1200 | 110 | 900 | 135 | H300571 | PC73UD12C700D1A | 12URD73D11A0700 |
| | 800 | 1100 | 190 | 1530 | 136 | J300572 | PC73UD11C800D1A | 11URD73D11A0800 |
| | 900 | 1000 | 250 | 1870 | 150 | K300573 | PC73UD10C900D1A | 10URD73D11A0900 |
| | 1000 | 900 | 370 | 2130 | 152 | L300574 | PC73UD90V10CD1A | 9URD73D11A1000 |
| | 1100 | 900 | 445 | 2470 | 168 | M300575 | PC73UD90V11CD1A | 9URD73D11A1100 |

*Legacy Description for reference only

PSC Square Body

650-1300VAC; 50-1800A; aR

1250 Volt European/IEC Style Ratings and Application Data, TTF Mounting

| Body Size | Current Rating I _n (A) | Rated Voltage V _n (V) (IEC) | Melting I ² t [A ² s x 10 ³] | Total Clearing I ² t @ V _n [A ² s x 10 ³] | Watts Loss @ I _n (W) | Reference No. | Catalog No. | Legacy Description* |
|-----------|-----------------------------------|--|--|--|---------------------------------|-----------------|-----------------|---------------------|
| 70 | 50 | 1250 | 0.116 | 0.98 | 16 | C301095 | PC70UD13C50TF | 12,5URD70TTF0050 |
| | 63 | 1250 | 0.21 | 1.7 | 26 | M300483 | PC70UD13C63TF | 12,5URD70TTF0063 |
| | 80 | 1250 | 0.45 | 3.8 | 27 | N300484 | PC70UD13C80TF | 12,5URD70TTF0080 |
| | 100 | 1250 | 0.83 | 7.2 | 30 | P300485 | PC70UD13C100TF | 12,5URD70TTF0100 |
| | 125 | 1250 | 1.3 | 11 | 38 | Q300486 | PC70UD13C125TF | 12,5URD70TTF0125 |
| | 160 | 1250 | 2.6 | 21 | 45 | R300487 | PC70UD13C160TF | 12,5URD70TTF0160 |
| | 200 | 1250 | 4.7 | 38 | 54 | S300488 | PC70UD13C200TF | 12,5URD70TTF0200 |
| | 250 | 1250 | 9.6 | 77 | 58 | T300489 | PC70UD13C250TF | 12,5URD70TTF0250 |
| | 280 | 1200 | 14 | 107 | 64 | N300714 | PC70UD12C280TF | 12URD70TTF0280 |
| | 315 | 1200 | 20 | 149 | 66 | V300490 | PC70UD12C315TF | 12URD70TTF0315 |
| | 350 | 1100 | 28 | 180 | 68 | W300491 | PC70UD11C350TF | 11URD70TTF0350 |
| 400 | 1100 | 39 | 254 | 81 | E300867 | PC70UD11C400TF | 11URD70TTF0400 | |
| 71 | 160 | 1250 | 2.6 | 21 | 46 | B300749 | PC71UD13C160TF | 12,5URD71TTF0160 |
| | 200 | 1250 | 4.7 | 38 | 54 | Z300517 | PC71UD13C200TF | 12,5URD71TTF0200 |
| | 250 | 1250 | 8.9 | 72 | 61 | A300518 | PC71UD13C250TF | 12,5URD71TTF0250 |
| | 315 | 1250 | 16 | 129 | 73 | B300519 | PC71UD13C315TF | 12,5URD71TTF0315 |
| | 350 | 1250 | 22 | 178 | 76 | C300520 | PC71UD13C350TF | 12,5URD71TTF0350 |
| | 400 | 1250 | 38 | 308 | 76 | D300521 | PC71UD13C400TF | 12,5URD71TTF0400 |
| | 450 | 1250 | 47 | 378 | 87 | E300522 | PC71UD13C450TF | 12,5URD71TTF0450 |
| | 500 | 1100 | 68 | 441 | 90 | F300523 | PC71UD11C500TF | 11URD71TTF0500 |
| | 550 | 1100 | 84 | 548 | 98 | G300524 | PC71UD11C550TF | 11URD71TTF0550 |
| 630 | 1100 | 126 | 820 | 105 | H300525 | PC71UD11C630TF | 11URD71TTF0630 | |
| 72 | 280 | 1250 | 10 | 85 | 72 | Y300493 | PC72UD13C280TF | 12,5URD72TTF0280 |
| | 315 | 1250 | 15 | 125 | 76 | Z300494 | PC72UD13C315TF | 12,5URD72TTF0315 |
| | 350 | 1250 | 21 | 170 | 77 | A300495 | PC72UD13C350TF | 12,5URD72TTF0350 |
| | 400 | 1250 | 33 | 270 | 80 | B300496 | PC72UD13C400TF | 12,5URD72TTF0400 |
| | 450 | 1250 | 44 | 360 | 87 | C300497 | PC72UD13C450TF | 12,5URD72TTF0450 |
| | 500 | 1250 | 57 | 465 | 94 | D300498 | PC72UD13C500TF | 12,5URD72TTF0500 |
| | 550 | 1250 | 68 | 550 | 110 | E300499 | PC72UD13C550TF | 12,5URD72TTF0550 |
| | 630 | 1250 | 105 | 850 | 113 | F300500 | PC72UD13C630TF | 12,5URD72TTF0630 |
| | 700 | 1100 | 142 | 920 | 122 | G300501 | PC72UD11C700TF | 11URD72TTF0700 |
| | 800 | 1100 | 215 | 1400 | 125 | H300502 | PC72UD11C800TF | 11URD72TTF0800 |
| | 900 | 1000 | 312 | 1800 | 130 | G300869 | PC72UD10C900TF | 10URD72TTF0900 |
| 1000 | 850 | - | - | 136 | T301294 | PC72UD85V1000TF | 8,5URD72TTF1000 | |
| 73 | 315 | 1250 | 12 | 102 | 84 | J300503 | PC73UD13C315TF | 12,5URD73TTF0315 |
| | 350 | 1250 | 17 | 150 | 86 | K300504 | PC73UD13C350TF | 12,5URD73TTF0350 |
| | 400 | 1250 | 25 | 203 | 93 | L300505 | PC73UD13C400TF | 12,5URD73TTF0400 |
| | 450 | 1250 | 35 | 290 | 99 | M300506 | PC73UD13C450TF | 12,5URD73TTF0450 |
| | 500 | 1250 | 44 | 360 | 110 | N300507 | PC73UD13C500TF | 12,5URD73TTF0500 |
| | 550 | 1250 | 57 | 465 | 116 | P300508 | PC73UD13C550TF | 12,5URD73TTF0550 |
| | 630 | 1250 | 84 | 680 | 125 | Q300509 | PC73UD13C630TF | 12,5URD73TTF0630 |
| | 700 | 1250 | 113 | 900 | 135 | R300510 | PC73UD13C700TF | 12,5URD73TTF0700 |
| | 800 | 1250 | 190 | 1530 | 136 | S300511 | PC73UD13C800TF | 12,5URD73TTF0800 |
| | 900 | 1200 | 250 | 1440 | 150 | T300512 | PC73UD12C900TF | 12URD73TTF0900 |
| | 1000 | 1000 | 370 | 2430 | 152 | V300513 | PC73UD10C1000TF | 10URD73TTF1000 |
| | 1100 | 950 | 445 | 2555 | 168 | W300514 | PC73UD95V11CTF | 9,5URD73TTF1100 |
| | 1250 | 900 | 585 | 3080 | 186 | T300696 | PC73UD90V13CTF | 9URD73TTF1250 |
| | 1400 | 850 | 755 | 3700 | 210 | S300718 | PC73UD85V14CTF | 8,5URD73TTF1400 |
| 1600 | 690 | 1430 | 5740 | 203 | B301301 | PC734UD69V16CTF | 6,9URD73TTF1600 | |
| 1800 | 600 | 2040 | 7150 | 206 | C301302 | PC73UD60V18CTF | 6URD73TTF1800 | |

*Legacy Description for reference only

PSC Square Body

650-1300VAC; 50-1800A; aR

1250 Volt European/IEC Style Ratings and Application Data, NH Style Blade

| Body Size | Current Rating I_n (A) | Rated Voltage V_n (V) (IEC) | Melting I^2t ($A^2s \times 10^3$) | Total Clearing I^2t @ V_n ($A^2s \times 10^3$) | Watts Loss @ I_n (W) | Reference No. | Catalog No. | Legacy Description* |
|-----------|--------------------------|-------------------------------|---------------------------------------|--|------------------------|----------------|----------------|---------------------|
| 70 | 50 | 1250 | 120 | 980 | 16 | J301423 | PC70UD13C50PA | 12,5URD70TTF0050 |
| | 63 | 1250 | 210 | 1680 | 26 | A301185 | PC70UD13C63PA | 12,5URD70TTF0063 |
| | 80 | 1250 | 470 | 3780 | 27 | M301242 | PC70UD13C80PA | 12,5URD70TTF0080 |
| | 100 | 1250 | 830 | 6750 | 30 | J301124 | PC70UD13C100PA | 12,5URD70TTF0100 |
| | 125 | 1250 | 1310 | 10500 | 38 | K301125 | PC70UD13C125PA | 12,5URD70TTF0125 |
| | 160 | 1250 | 2570 | 21000 | 45 | D301188 | PC70UD13C160PA | 12,5URD70TTF0160 |
| | 200 | 1250 | 4730 | 38000 | 56 | Z300839 | PC70UD13C200PA | 12,5URD70TTF0200 |
| 71 | 160 | 1250 | 2.6 k | 21 k | 46 | M301219 | PC71UD13C160PA | 12,5URD71TTF0160 |
| | 200 | 1250 | 4.7 k | 38 k | 54 | G301835 | PC71UD13C200PA | 12,5URD71TTF0200 |
| | 250 | 1250 | 8.9 k | 72 k | 61 | B301163 | PC71UD13C250PA | 12,5URD71TTF0250 |
| | 315 | 1250 | 16 k | 129 k | 76 | A300840 | PC71UD13C315PA | 12,5URD71TTF0315 |
| | 350 | 1250 | 22 k | 178 k | 80 | H1000070 | PC71UD13C350PA | 12,5URD71TTF0350 |
| | 400 | 1250 | 38 k | 308 k | 80 | Q301222 | PC71UD13C400PA | 12,5URD71TTF0400 |
| | 450 | 1250 | 47 k | 378 k | 95 | W302975 | PC71UD13C450PA | 12,5URD71TTF0450 |
| 72 | 280 | 1250 | 10.3 k | 85 k | 72 | J300618 | PC72UD13C280EF | 12,5URD72TTF0280 |
| | 315 | 1250 | 15.1 k | 125 k | 76 | K300619 | PC72UD13C315EF | 12,5URD72TTF0315 |
| | 350 | 1250 | 21 k | 170 k | 77 | L300620 | PC72UD13C350EF | 12,5URD72TTF0350 |
| | 400 | 1250 | 32.8 k | 270 k | 80 | M300621 | PC72UD13C400EF | 12,5URD72TTF0400 |
| | 450 | 1250 | 44.2 k | 360 k | 89 | N300622 | PC72UD13C450EF | 12,5URD72TTF0450 |
| | 500 | 1250 | 57.1 k | 465 k | 98 | P300623 | PC72UD13C500EF | 12,5URD72TTF0500 |
| | 630 | 1100 | 106.3 k | 690 k | 125 | R300625 | PC72UD11C630EF | 12,5URD72TTF0550 |
| | 700 | 1000 | 141.9 k | 815 k | 140 | S300626 | PC72UD10C700EF | 12,5URD72TTF0630 |
| 800 | 1000 | 215.1 k | 1240 k | 146 | T300627 | PC72UD10C800EF | 11URD72TTF0700 | |
| 73 | 450 | 1250 | 35.5 k | 290 k | 100 | X302976 | PC73UD13C450PA | 12,5URD73TTF0315 |
| | 500 | 1250 | 44 k | 360 k | 112 | S302719 | PC73UD13C500PA | 12,5URD73TTF0350 |
| | 550 | 1250 | 57 k | 465 k | 120 | Y302977 | PC73UD13C550PA | 12,5URD73TTF0400 |
| | 630 | 1250 | 84 k | 680 k | 132 | D300843 | PC73UD13C630PA | 12,5URD73TTF0450 |
| | 700 | 1200 | 110 k | 900 k | 146 | B301784 | PC73UD12C700PA | 12,5URD73TTF0500 |
| | 800 | 1100 | 190 k | 1230 k | 148 | Z301966 | PC73UD11C800PA | 12,5URD73TTF0550 |
| | 900 | 1000 | 250 k | 1440 k | 170 | F302685 | PC73UD10C900PA | 12,5URD73TTF0630 |
| | 1000 | 900 | 370 k | 1920 k | 174 | R302718 | PC73UD90V10CPA | 12,5URD73TTF0700 |
| | 1100 | 900 | 445 k | 2280 k | 208 | Q302717 | PC73UD90V11CPA | 12,5URD73TTF0800 |
| | 1250 | 900 | 585 k | 3080 k | 234 | G302686 | PC73UD85V14CPA | 12URD73TTF0900 |
| | 1400 | 850 | 755 k | 3700 k | 260 | G302709 | A090UD73PA1400 | 10URD73TTF1000 |

*Legacy Description for reference only

PSC Square Body

650-1300VAC; 50-1800A; aR

1250 Volt European/IEC Ratings and Application Data, EF Style Notched Blade

| Body Size | Current Rating I_n (A) | Rated Voltage V_n (V) (IEC) | Melting I^2t ($A^2s \times 10^3$) | Total Clearing I^2t @ V_n ($A^2s \times 10^3$) | Watts Loss @ I_n (W) | Item No. | Catalog No. | Legacy Description* |
|-----------|--------------------------|-------------------------------|---------------------------------------|--|------------------------|----------------|-------------------|---------------------|
| 70 | 63 | 1250 | 210 | 1680 | 26 | P300600 | PC70UD13C63EF | 12,5 URD 70 EF 0063 |
| | 80 | 1250 | 470 | 3780 | 27 | Q300601 | PC70UD13C80EF | 12,5 URD 70 EF 0080 |
| | 100 | 1250 | 830 | 6750 | 30 | R300602 | PC70UD13C100EF | 12,5 URD 70 EF 0100 |
| | 125 | 1250 | 1310 | 10500 | 38 | S300603 | PC70UD13C125EF | 12,5 URD 70 EF 0125 |
| | 160 | 1250 | 2570 | 21000 | 45 | T300604 | PC70UD13C160EF | 12,5 URD 70 EF 0160 |
| | 200 | 1250 | 4730 | 38000 | 56 | V300605 | PC70UD13C200EF | 12,5 URD 70 EF 0200 |
| | 250 | 1250 | 9580 | 77000 | 61 | W300606 | PC70UD13C250EF | 12,5 URD 70 EF 0250 |
| | 280 | 1200 | 14200 | 106000 | 64 | L300712 | PC70UD12C280EF | 12,5 URD 70 EF 0280 |
| | 315 | 1200 | 20000 | 149000 | 72 | X300607 | PC70UD12C315EF | 12 URD 70 EF 0315 |
| | 350 | 1100 | 27800 | 180000 | 75 | Y300608 | PC70UD11C350EF | 11 URD 70 EF 0350 |
| 71 | 160 | 1250 | 2.6 k | 21 k | 46 | C300750 | PC71UD13C160EF | 12,5 URD 71 EF 0160 |
| | 200 | 1250 | 4.7 k | 38 k | 54 | Z300609 | PC71UD13C200EF | 12,5 URD 71 EF 0200 |
| | 250 | 1250 | 8.9 k | 72 k | 61 | A300610 | PC71UD13C250EF | 12,5 URD 71 EF 0250 |
| | 280 | 1250 | 12 k | 96 k | 70 | M300713 | PC71UD13C280EF | 12,5 URD 71 EF 0280 |
| | 630 | 1000 | 126 k | 725 k | 120 | H300617 | PC71UD10C630EF | 10 URD 71 EF 0630 |
| | 315 | 1250 | 16 k | 129 k | 76 | B300611 | PC71UD13C315EF | 12,5 URD 71 EF 0315 |
| | 350 | 1250 | 22 k | 178 k | 80 | C300612 | PC71UD13C350EF | 12,5 URD 71 EF 0350 |
| | 400 | 1250 | 38 k | 308 k | 80 | D300613 | PC71UD13C400EF | 12,5 URD 71 EF 0400 |
| | 450 | 1250 | 47 k | 378 k | 95 | E300614 | PC71UD13C450EF | 12,5 URD 71 EF 0450 |
| | 500 | 1100 | 68 k | 441 k | 100 | F300615 | PC71UD11C500EF | 11 URD 71 EF 0500 |
| 550 | 1100 | 84 k | 548 k | 112 | G300616 | PC71UD11C550EF | 11 URD 71 EF 0550 | |
| 72 | 315 | 1250 | 15.1 k | 125 k | 76 | H301836 | PC72UD13C315PA | 12,5 URD 72 PA 0315 |
| | 400 | 1250 | 32.8 k | 270 k | 80 | B300841 | PC72UD13C400PA | 12,5 URD 72 PA 0400 |
| | 450 | 1250 | 44.2 k | 360 k | 89 | C300842 | PC72UD13C450PA | 12,5 URD 72 PA 0450 |
| | 500 | 1250 | 57.1 k | 465 k | 98 | P302716 | PC72UD13C500PA | 12,5 URD 72 PA 0500 |
| | 630 | 1100 | 106.3 k | 690 k | 125 | N301220 | PC72UD11C630PA | 11 URD 72 PA 0630 |
| | 800 | 1000 | 215.1 k | 1240 k | 146 | M302047 | PC72UD10C800PA | 10 URD 72 PA 0800 |
| 73 | 315 | 1250 | 12 k | 95 k | 84 | V300628 | PC73UD13C315EF | 12,5 URD 73 EF 0315 |
| | 350 | 1250 | 17 k | 140 k | 86 | W300629 | PC73UD13C350EF | 12,5 URD 73 EF 0350 |
| | 400 | 1250 | 25 k | 205 k | 93 | X300630 | PC73UD13C400EF | 12,5 URD 73 EF 0400 |
| | 450 | 1250 | 35.5 k | 290 k | 100 | Y300631 | PC73UD13C450EF | 12,5 URD 73 EF 0450 |
| | 500 | 1250 | 44 k | 360 k | 112 | Z300632 | PC73UD13C500EF | 12,5 URD 73 EF 0500 |
| | 550 | 1250 | 57 k | 465 k | 120 | A300633 | PC73UD13C550EF | 12,5 URD 73 EF 0550 |
| | 630 | 1250 | 84 k | 680 k | 132 | B300634 | PC73UD13C630EF | 12,5 URD 73 EF 0630 |
| | 700 | 1200 | 110 k | 900 k | 146 | C300635 | PC73UD12C700EF | 12 URD 73 EF 0700 |
| | 800 | 1100 | 190 k | 1230 k | 148 | D300636 | PC73UD11C800EF | 11 URD 73 EF 0800 |
| | 900 | 1000 | 250 k | 1440 k | 170 | E300637 | PC73UD10C900EF | 10 URD 73 EF 0900 |
| | 1000 | 900 | 370 k | 1920 k | 174 | F300638 | PC73UD90V10CEF | 9 URD 73 EF 1000 |
| | 1100 | 900 | 445 k | 2280 k | 208 | G300639 | PC73UD90V11CEF | 9 URD 73 EF 1100 |

*Legacy Description for reference only

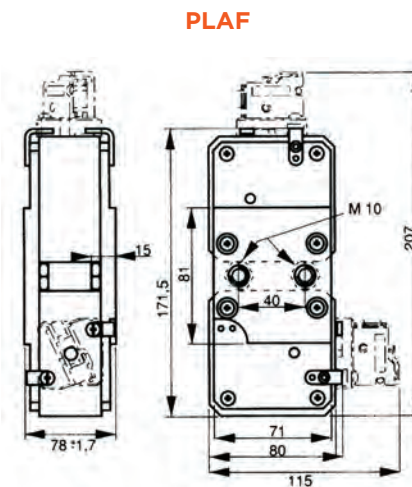
PSC Square Body

650-1300VAC; 50-1800A; aR

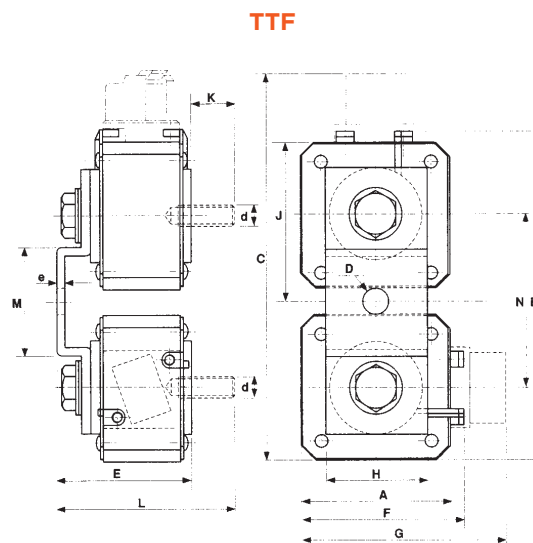
1250/1300 Volt, 2x72, 2x73 Protection High speed fuses

| Size | Reference No. | Catalog No. | Legacy Description* | Weight (g) | |
|---------|---------------|-----------------|---------------------|-------------------|-------------------|
| 73 | H300640 | PC73UD13C315PP4 | 12,5URD73PPAF0315 | 1250 | |
| | J300641 | PC73UD13C350PP4 | 12,5URD73PPAF0350 | | |
| | K300642 | PC73UD13C405PP4 | 12,5URD73PPAF0400 | | |
| | L300643 | PC73UD13C450PP4 | 12,5URD73PPAF0450 | | |
| | M300644 | PC73UD13C500PP4 | 12,5URD73PPAF0500 | | |
| | N300645 | PC73UD13C550PP4 | 12,5URD73PPAF0550 | | |
| | P300646 | PC73UD13C630PP4 | 12,5URD73PPAF0630 | | |
| | Q300647 | PC73UD13C700PP4 | 12,5URD73PPAF0700 | | |
| | R300648 | PC73UD13C800PP4 | 12,5URD73PPAF0800 | | |
| | S300649 | PC73UD12C900PP4 | 12URD73PPAF0900 | | |
| | T300650 | PC73UD10C10CPP4 | 10URD73PPAF1000 | | |
| | V300651 | PC73UD95V11CPP4 | 9,5URD73PPAF1100 | | |
| | T300719 | PC73UD90V13CPP4 | 9URD73PPAF1250 | | |
| | V300720 | PC73UD85V14CPP4 | 8,5URD73PPAF1400 | | |
| | 2 X 72 | W300721 | PC272UD13C630TF | | 12,5URD272TTF0630 |
| X300722 | | PC272UD13C700TF | 12,5URD272TTF0700 | | |
| Y300723 | | PC272UD13C800TF | 12,5URD272TTF0800 | | |
| Z300724 | | PC272UD13C900TF | 12,5URD272TTF0900 | | |
| A300725 | | PC272UD13C10CTF | 12,5URD272TTF1000 | | |
| B300726 | | PC272UD13C11CTF | 12,5URD272TTF1100 | 1900 | |
| M302231 | | PC272UD11C13CTF | 11URD272TTF1250 | | |
| D300728 | | PC272UD11C14CTF | 11URD272TTF1400 | | |
| L302230 | | PC272UD10C16CTF | 10URD272TTF1600 | | |
| E301994 | | PC272UD90V18CTF | 9URD272TTF1800 | | |
| 2 X 73 | F301995 | PC272UD75V20CTF | 7,5URD272TTF2000 | 2600 | |
| | G301996 | PC272UD65V22CTF | 6,5URD272TTF2200 | | |
| | H301997 | PC272UD65V25CTF | 6,5URD272TTF2500 | | |
| | F300730 | PC273UD13C800TF | 12,5URD273TTF0800 | 2600 | |
| | G300731 | PC273UD13C900TF | 12,5URD273TTF0900 | | |
| | H300732 | PC273UD13C10CTF | 12,5URD273TTF1000 | | |
| | J300733 | PC273UD13C11CTF | 12,5URD273TTF1100 | | |
| | K300734 | PC273UD13C13CTF | 12,5URD273TTF1250 | | |
| | K302229 | PC273UD11C14CTF | 11URD273TTF1400 | 2800 | |
| | J302228 | PC273UD11C16CTF | 11URD273TTF1600 | | |
| | S302236 | PC273UD11C18CTF | 11URD273TTF1800 | | |
| | P300738 | PC273UD10C20CTF | 10URD273TTF2000 | | |
| | Q300739 | PC273UD95V22CTF | 9,5URD273TTF2200 | | |
| | 2 X 73 | M301909 | PC76UD95V22CP11 | 9,5URD273PLAF2200 | 2700 |
| | | R300740 | PC76UD90V25CP11 | 9URD273PLAF2500 | |
| S300741 | | PC76UD85V28CP11 | 8,5URD273PLAF2800 | | |
| K301999 | | PC76UD60V30CP11 | 6URD273PLAF3000 | 2700 | |
| M302001 | | PC76UD60V32CP11 | 6URD273PLAF3200 | | |
| N302002 | | PC76UD55V36CP11 | 5,5URD273PLAF3600 | | |

*Legacy Description for reference only



Dimensions mm



Microswitches and threaded studs supplied separately (see Fusegear section)

DIMENSIONS (MM):

| SIZE | A | B | C | D | E | F | G | H | J | K | d | e | L | M | N |
|-------------|---------------------------|-------|-----|----|----|------|-----|----|----|----|------|---|-----|----|----|
| 2 X 72 TTF | 60 | 138.5 | 172 | 11 | 91 | 65.5 | 100 | 35 | 66 | 39 | M 10 | 4 | 131 | 48 | 72 |
| 2 X 73 TTF | 74.5 | 167 | 200 | 13 | 91 | 79.6 | 114 | 50 | 80 | 39 | M 12 | 4 | 131 | 54 | 86 |
| 2 X 73 PLAF | Dimensions on image above | | | | | | | | | | | | | | |

Protistor IEC Cylindrical

500-600VAC; 0.1-30A; aR

10 x 38 mm

The 10 x 38 aR fuses are fast acting, full range fuses utilized in the protection of inverters, UPS and other discrete semiconductor devices. They are available with blown fuse indicator option.



FEATURES/BENEFITS: FUSE BLOCKS:

- Extremely high Interrupting rating
- With built in trip-indicator (1 up to 30A) Mersen Specialty

| No. Poles | Screw | Pressure Plate | Copper Box |
|-----------|-------|----------------|------------|
| Adder | 30310 | 30320 | 30330 |
| 1 | 30311 | 30321 | 30351 |
| 2 | 30312 | 30322 | 30352 |
| 3 | 30313 | 30323 | 30353 |

*For ferrule fuses only

See Fusegear section for product details.

RATINGS:

- **Volts:** 500-600VAC

APPLICATIONS:

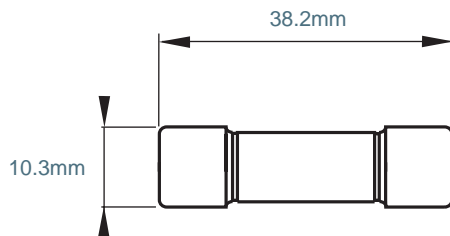
- Protection of power semiconductors according to IEC 269.1 and 4

APPROVALS:

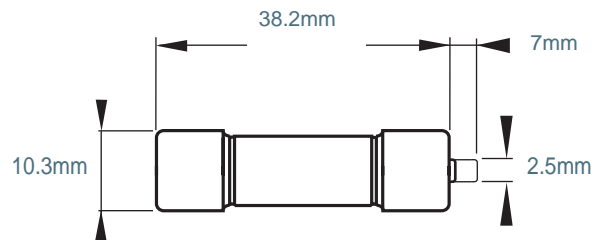
- aR class according to VDE 636-23 and IEC 269.4
- Without blown fuse indication according to NF C 63210 and 63211 - 0.10 up to 0.80A**

DIMENSIONS:

10.3x38 - Without blown fuse indicator



10.3x38 - With blown fuse trip-indicator



CATALOG NUMBERS

| Current Rating I _n [mA] | Catalog No. | Ref. # |
|------------------------------------|----------------------|---------|
| 100 | A 060 URD 0.100 T13 | H077632 |
| 125 | A 060 URD 0.125 T13 | J077633 |
| 160 | A 060 URD 0.160 T13 | K077634 |
| 200 | A 060 URD 0.200 T13 | L077635 |
| 250 | A 060 URD 0.250 T13 | M077636 |
| 315 | A 060 URD 0.315 T13 | N077637 |
| 400 | A 060 URD 0.400 T13 | P077638 |
| 500 | A 060 URD 0.500 T13* | Q077639 |
| 630 | A 060 URD 0.630 T13* | R077640 |
| 800 | A 060 URD 0.800 T13* | S077641 |

* UL Recognized



| Current Rating I _n [A] | Catalog No. | Ref. # |
|-----------------------------------|-----------------------|---------|
| 1 | A 050 URD 001 T13 I | P076925 |
| 1.25 | A 050 URD 001.2 T13 I | H076597 |
| 1.6 | A 050 URD 001.6 T13 I | G076596 |
| 2 | A 050 URD 002 T13 I | Q076926 |
| 2.5 | A 050 URD 002.5 T13 I | F076595 |
| 3.15 | A 050 URD 003 T13 I | R076927 |
| 4 | A 050 URD 004 T13 I | S076928 |
| 5 | A 050 URD 005 T13 I | T076929 |
| 6 | A 050 URB 006 T13 I | V076930 |
| 8 | A 050 URB 008 T13 I | W076931 |
| 10 | A 050 URB 010 T13 I | X076932 |
| 12 | A 050 URB 012 T13 I | Y076933 |
| 16 | A 050 URB 016 T13 I | Z076034 |
| 20 | A 050 URB 020 T13 I | A076935 |
| 25 | A 050 URL 025 T13 I | B076936 |
| 30 | A 050 URL 030 T13 I | C076937 |

Protister IEC Cylindrical

700VAC, 500VDC; 1-32A; gR

10 x 38 mm

The 10 x 38 gR is a fast acting, full range fuse utilized in the protection of inverters, UPS and other discrete semiconductor devices.

FEATURES/BENEFITS: FUSE BLOCKS:

- International 10 X 38 mm (1 1/2" X 1 3/32") size for worldwide acceptance
- Ferrule mount 1 to 32A for design versatility
- Low I²t for improved semiconductor protection
- gR Class according to VDE 636-23 and IEC 269.4

| Catalog No. | |
|-------------------|--------------------------------|
| A70QS-14F or 14FI | UltraSafe™ US14 703 U705 |
| A70QS-22F or 22FI | UltraSafe US22 U710 |

See Fusegear section for product details.



RATINGS:

- **Volts:** 700VAC, 500VDC
- **Amps:** 1 to 32A
- **IR:** 160kA IR AC, 10kA IR DC
- **L/R:** 10ms

APPLICATIONS:

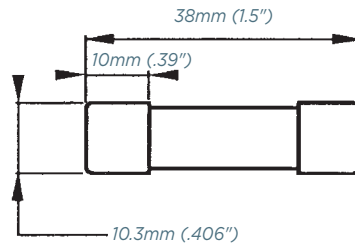
- Protection of small inverters, UPS systems, motor drives and similar 700V or less equipment

APPROVALS:

- UL recognized component
UL file E76491
- IEC 269-4 compliance
- AC: UL guide no. JFHR2



DIMENSIONS:



CATALOG NUMBERS:

| Description | Catalog No. | Current Rating I _n (A) | Body Size (mm) | Rated Voltage (VAC) | Melting I ² t (A ² s) | Clearing I ² t @ Rated Voltage (A ² s) | Watts Loss | |
|---------------|-------------|-----------------------------------|----------------|---------------------|---|--|---------------------|----------------------|
| | | | | | | | @ 80% Rated Current | @ 100% Rated Current |
| FR10GR69V1 | L1014563 | 1 | 10 X 38 | 700 | 0.17 | 0.48 | 0.4 | 0.8 |
| FR10GR69V1.25 | N1014565 | 1.25 | | | 0.17 | 0.55 | 0.8 | 1.5 |
| FR10GR69V1.5 | P1014566 | 1.5 | | | 0.31 | 0.8 | 0.6 | 1.5 |
| FR10GR69V2 | Q1014567 | 2 | | | 0.94 | 2.5 | 0.7 | 1.3 |
| FR10GR69V2.5 | T1014570 | 2.5 | | | 1.65 | 4.5 | 0.8 | 1.4 |
| FR10GR69V3 | V1014571 | 3 | | | 2.83 | 7.8 | 0.9 | 1.5 |
| FR10GR69V4 | W1014572 | 4 | | | 6.7 | 12 | 1 | 1.7 |
| FR10GR69V5 | X1014573 | 5 | | | 7.5 | 30 | 0.6 | 0.9 |
| FR10GR69V6 | Y1014574 | 6 | | | 8.5 | 40 | 0.8 | 1.4 |
| FR10GR69V8 | Z1014575 | 8 | | | 5.4 | 35 | 1.1 | 1.9 |
| FR10GR69V10 | A1014576 | 10 | | | 8.7 | 55 | 1.2 | 2.1 |
| FR10GR69V12 | C1014578 | 12.5 | | | 11 | 90 | 1.3 | 2.8 |
| FR10GR69V16 | D1014579 | 16 | | | 19 | 140 | 1.7 | 3 |
| FR10GR69V20 | E1014580 | 20 | | | 39 | 245 | 2.1 | 3.7 |
| FR10GR69V25 | F1014581 | 25 | | | 69 | 425 | 2.4 | 4.3 |
| FR10GR69V30 | G1014582 | 30 | | | 107 | 675 | 2.7 | 4.8 |
| FR10GR69V32 | H1014583 | 32 | 154 | 945 | 2.8 | 5.1 | | |

Protistor IEC Cylindrical

690VAC; 6-100A; aR

14 x 51 mm and 22 x 58 mm

These Protistor® aR fuses have been designed to protect power semiconductors, complying with standard IEC 60269-1 and -4.

FEATURES/BENEFITS: FUSE BLOCKS:

- Extremely high Interrupting rating
- Two models according to NF C 63210 and 63211 with and without blown fuse built-in trip-indicator for sizes 14 x 51 and 22 x 58

| Catalog No. | |
|-------------|-----------------|
| 14X51 | UltraSafe™ US14 |
| | 703 |
| | U705 |
| 22X58 | UltraSafe US22 |
| | U710 |

See Fusegear section for product details.



RATINGS:

- **Volts:** 690VAC
- **Amps:** 6-100A

APPLICATIONS:

- Protection of power semiconductors according to IEC 269.1 and 4

APPROVALS:

- UL recognized (except 6A)*
- aR class according to VDE 636-23 and IEC 269.4

CATALOG NUMBERS/DIMENSIONS:

All the fuses presented on this page are UL Recognized (except 6 A)*

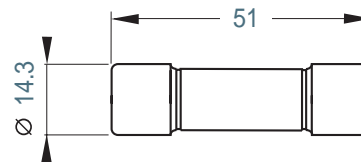
| Current Rating I _n [A] | Description | Catalog No. |
|-----------------------------------|-----------------------|-------------|
| 6 | 6.900 CP URC 14.51/6* | K081475 |
| 8 | 6.900 CP URC 14.51/8 | S093902 |
| 10 | 6.900 CP URC 14.51/10 | T093903 |
| 12 | 6.900 CP URC 14.51/12 | V093904 |
| 16 | 6.900 CP URC 14.51/16 | W093905 |
| 20 | 6.900 CP URC 14.51/20 | X093906 |
| 25 | 6.900 CP URC 14.51/25 | Y093907 |
| 32 | 6.900 CP URC 14.51/32 | Z093908 |
| 40 | 6.900 CP URC 14.51/40 | A093909 |
| 50 | 6.900 CP URC 14.51/50 | B093910 |

| Current Rating I _n [A] | Description | Catalog No. |
|-----------------------------------|-----------------------|-------------|
| 6 | 6.921 CP URC 14.51/6* | G081518 |
| 8 | 6.921 CP URC 14.51/8 | C093911 |
| 10 | 6.921 CP URC 14.51/10 | D093912 |
| 12 | 6.921 CP URC 14.51/12 | E093913 |
| 16 | 6.921 CP URC 14.51/16 | F093914 |
| 20 | 6.921 CP URC 14.51/20 | G093915 |
| 25 | 6.921 CP URC 14.51/25 | H093916 |
| 32 | 6.921 CP URC 14.51/32 | J093917 |
| 40 | 6.921 CP URD 14.51/40 | T100136 |
| 50 | 6.921 CP URD 14.51/50 | V100137 |

| Current Rating I _n [A] | Description | Catalog No. |
|-----------------------------------|------------------------|-------------|
| 25 | 6.900 CP URD 22x58/25 | B093956 |
| 32 | 6.900 CP URD 22x58/32 | Z094828 |
| 40 | 6.900 CP URD 22x58/40 | S094822 |
| 50 | 6.900 CP URD 22x58/50 | W094779 |
| 63 | 6.900 CP URD 22x58/63 | T094823 |
| 80 | 6.900 CP URD 22x58/80 | A094829 |
| 100 | 6.900 CP URD 22x58/100 | Y094827 |

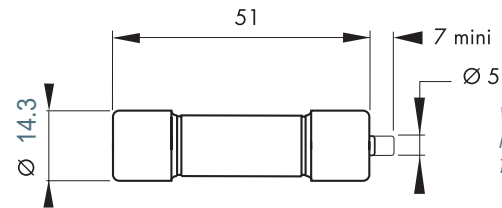
| Current Rating I _n [A] | Description | Catalog No. |
|-----------------------------------|------------------------|-------------|
| 25 | 6.921 CP URD 22x58/ 25 | H093801 |
| 32 | 6.921 CP URD 22x58/ 32 | C093957 |
| 40 | 6.921 CP URD 22x58/ 40 | J093802 |
| 50 | 6.921 CP URD 22x58/ 50 | D093958 |
| 63 | 6.921 CP URD 22x58/ 63 | K093803 |
| 80 | 6.921 CP URD 22x58/ 80 | E093959 |
| 100 | 6.921 CP URD 22x58/100 | F093960 |

14 x 51 - Without blown fuse indication (mm)



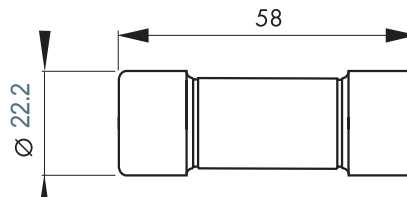
Weight : 18g
Packaging:
10 pieces

14 x 51 - With blown fuse trip-indicator (mm)



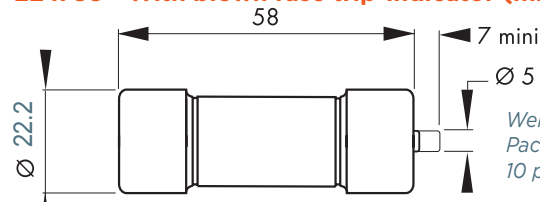
Weight : 18g
Packaging:
10 pieces

22 x 58 - Without blown fuse indication (mm)



Weight: 57 g
Packaging:
10 pieces

22 x 58 - With blown fuse trip-indicator (mm)



Weight: 57 g
Packaging:
10 pieces

Protistor IEC Cylindrical

600-690VAC; 63-250A; aR

27 x 60 mm

These Protistor® aR fuses have been designed to protect power semiconductors, complying with standard IEC 60269-1 and -4.

FEATURES/BENEFITS:

- Extremely high Interrupting rating
- Model according to NF C 63210 and 63211 with built-in blown fuse indication

FUSE BLOCKS:

| Catalog No. | |
|-------------|------|
| 27 x 60 | US27 |

See Fusegear section for product details.



RATINGS:

- **Volts:** 600V-690VAC
- **Amps:** 63-250A

APPLICATIONS:

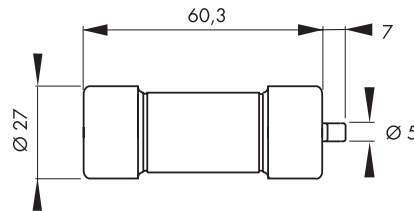
- Protection of power semiconductors according to IEC 269.1 and 4

APPROVALS:

- aR class according to VDE 636-23 and IEC 269.4

DIMENSIONS:

27 x 60 - With blown fuse trip-indicator (mm)



CATALOG NUMBERS

| Type | Voltage | Current Rating I _n (A) | Description | Catalog No. |
|------|---------|-----------------------------------|-------------------------|-------------|
| URGD | 690V | 63 | 6,921 CP URGD 27x60/ 63 | A076820 |
| | | 80 | 6,921 CP URGD 27x60/ 80 | B076821 |
| | | 100 | 6,921 CP URGD 27x60/100 | C076822 |
| | | 125 | 6,921 CP URGD 27x60/125 | D076823 |
| | | 160 | 6,921 CP URGD 27x60/160 | E076824 |
| | | 200 | 6,921 CP URGD 27x60/200 | F076825 |
| | 600V | 250 | 6,921 CP URGD 27x60/250 | W076264 |

Minimum operating voltage for trip-indicator: 20 V

Protistor IEC Cylindrical

600-1000VAC; 32-250A; aR

27 x 60 mm

These Protistor® aR have been designed to protect power semiconductors, complying with standard IEC 60269-1 and -4. They are extremely high interrupting rating fuses: 690 VAC, with large band of ratings.

FEATURES/BENEFITS:

- Extremely high interrupting rating
- Model according to NF C 63210 and 63211 with built-in blown trip-indicator

FUSE BLOCKS:

| Catalog No. | |
|-------------|------|
| 27 x 60 | US27 |

See Fusegear section for product details.



RATINGS:

- **Volts:** 690V-1000VAC
- **Amps:** 32-250A

APPLICATIONS:

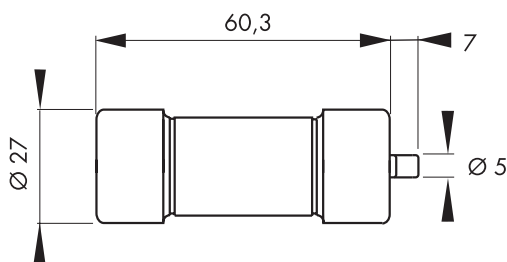
- Protection of power semiconductors according to IEC standard 269.1 and 4

APPROVALS:

- 690V URQ and 1000V URB are UL recognized
- aR class according to VDE 636-23 and IEC 269.4

DIMENSIONS:

27x60 - With blown fuse trip-indicator (mm)



CATALOG NUMBERS:

| Type | Voltage | Current Rating I _n (A) | Description | Catalog No. |
|------|---------|-----------------------------------|------------------------|-------------|
| URQ | 690 V | 50 | 6,921 CP URQ 27x60/ 50 | N075958 |
| | | 63 | 6,921 CP URQ 27x60/ 63 | V076309 |
| | | 80 | 6,921 CP URQ 27x60/ 80 | W076310 |
| | | 100 | 6,921 CP URQ 27x60/100 | R078330 |
| | | 125 | 6,921 CP URQ 27x60/125 | S078331 |
| | | 160 | 6,921 CP URQ 27x60/160 | X076311 |
| | | 200 | 6,921 CP URQ 27x60/200 | T078332 |
| | | 250 | 6,921 CP URQ 27x60/250 | T076308 |
| URB | 1000 V | 32 | 1021 CP URB 27x60/ 32 | S081298 |
| | | 40 | 1021 CP URB 27x60/ 40 | R081297 |
| | | 50 | 1021 CP URB 27x60/ 50 | Q081296 |
| | | 63 | 1021 CP URB 27x60/ 63 | P081295 |
| | | 80 | 1021 CP URB 27x60/ 80 | N081294 |
| | | 100 | 1021 CP URB 27x60/100 | M081293 |
| | | 125 | 1021 CP URB 27x60/125 | L081292 |
| | | 160 | 1021 CP URB 27x60/160 | K081291 |
| | | 170 | 1021 CP URB 27x60/170 | Z080338 |

Protistor IEC Cylindrical

800VAC; 8-110A; gR

27 x 60 mm

The gR cylindrical is a fast acting, full range fuse used in the protection of inverters, UPS, variable speed drives, and other discrete semiconductor devices.

FEATURES/BENEFITS:

- Extremely high Interrupting rating
- With built in trip indicator

FUSE BLOCKS:

| Catalog No. | |
|-------------|------|
| 27 x 60 | US27 |

See Fusegear section for product details.



RATINGS:

- **Volts:** 800V voltage rating according to IEC 33
- **Amps:** 8-110A

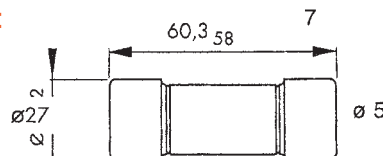
APPLICATIONS:

- Protection of power semiconductors complying with IEC standards 269-1 and 4

APPROVALS:

- gR Class as per IEC 269-4
 - Full range protection
 - Improved safety and protection
 - Allows selective coordination

DIMENSIONS:



Unit weight
78 g

Trip indicator force: 4.5N at 0mm - 2.5N at 7mm

CATALOG NUMBERS

| Catalog No | Description | Voltage Rating U_n (V) | Class | Current Rating I_n (A) | Melting I^2t @ 1 ms I^2t_p (A ² s) | Total Clearing I^2t @ U_n I^2t_t (A ² s) | Watts Loss | | Tested Interrupting Rating |
|------------|---------------------|-----------------------------|-------|-----------------------------|---|--|------------|-------|----------------------------|
| | | | | | | | $0.8 I_n$ | I_n | |
| R221436 | 821 CP GRB27.60 8 | 800 | gRB | 8 | 4.25 | 70 | 1.2 | 2.0 | 175 kA @ 700 V |
| S221437 | 821 CP GRB27.60 10 | | | 10 | 8.0 | 100 | 1.3 | 2.3 | |
| T221438 | 821 CP GRB27.60 12 | | | 12 | 17.0 | 180 | 1.4 | 2.5 | |
| V221439 | 821 CP GRB27.60 16 | | | 16 | 26.5 | 250 | 1.9 | 3.5 | |
| W221440 | 821 CP GRB27.60 20 | | | 20 | 38.5 | 350 | 2.4 | 4.0 | |
| X221441 | 821 CP GRB27.60 25 | | | 25 | 73.0 | 600 | 2.8 | 5.0 | |
| Y221442 | 821 CP GRB27.60 32 | | | 32 | 130 | 1000 | 3.5 | 6.0 | 90 kA @ 800 V |
| Z221443 | 821 CP GRB27.60 40 | | | 40 | 195 | 1400 | 4.7 | 8.0 | |
| A221444 | 821 CP GRB27.60 50 | | | 50 | 430 | 2700 | 4.8 | 8.5 | |
| B221445 | 821 CP GRB27.60 63 | | | 63 | 965 | 5500 | 5.6 | 10 | |
| C221446 | 821 CP GRB27.60 80 | | | 80 | 1890 | 11000 | 6.4 | 11.5 | |
| D221447 | 821 CP GRB27.60 100 | | | 100 | 3480 | 19000 | 7.4 | 13 | |
| E221448 | 821 CP GRB27.60 110 | | | 110 | 4670 | 27000 | 7.7 | 14 | |

Minimum operating voltage for trip-indicator: 20 V



FUSEGEAR

1SC/1MSC

Modular Semiconductor Fuse Blocks

Mersen 1SC and 1MSC semiconductor fuse blocks feature modular mounting that offers greater flexibility in adjusting to various fuse lengths. Both stud type and integral box connector versions are offered to allow for user preference of wire terminations. The integral box connector versions also provide for greater heat dissipation. Mounting hardware is supplied with the blocks.

FEATURES/BENEFITS:

- Modular two-piece design
- Compact footprint
- Stud versions
- Heat dissipating integral box connector versions
- Accommodates a large range of semiconductor fuses
- Rugged phenolic insulators
- Global acceptance fuse blocks meet UL and IEC requirements



RATINGS:

1SC

- **Volts:** 1000VAC/DC (SCCR: 200kA)
1500VAC/DC (SCCR: 100kA)
- **Amps:** 800A Maximum

1MSC

- **Volts:** 600V
- **Amps:** 600A Maximum
- **SCCR:** 200kA

RECOMMENDED FOR USE WITH:

- Blade-style fuses

APPROVALS:

- UL Recognized Component File for 1SC: E52283
File for 1MSC: E35113



DIMENSIONS - 1SC:

| Catalog No. | Maximum Voltage Rating* | Current Rating I _n (A) | Pkg. | UR | Connector | | Hardware | | Tightning Torque (lb.-in.) | | | Fig. |
|-------------|-------------------------|-----------------------------------|------|-----|-----------|------------|----------|--------|----------------------------|------|----------|------|
| | | | | | Type | Wire Range | Bolt | Washer | Cable | Fuse | Mounting | |
| 1SC250 | 1500 | 400 | Pair | Yes | 1/4" Stud | — | — | — | 60 | 60 | 25 | 1 |
| 1SC375 | 1500 | 800 | Pair | Yes | 3/8" Stud | — | — | — | 190 | 190 | 50 | 2 |
| 1SCM8 | 1500 | 400 | Pair | Yes | M8 Stud | — | — | — | 60 | 60 | 25 | 1 |
| 1SCM10 | 1500 | 800 | Pair | Yes | M10 Stud | — | — | — | 190 | 190 | 50 | 2 |

For 1SC, order quantity 1 to receive 1 pair.
*Voltage rating applies to AC and DC.

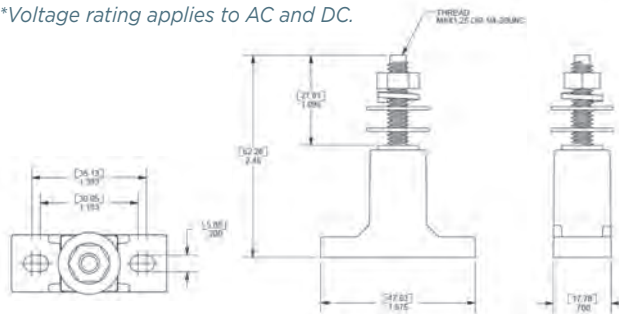


Figure 1

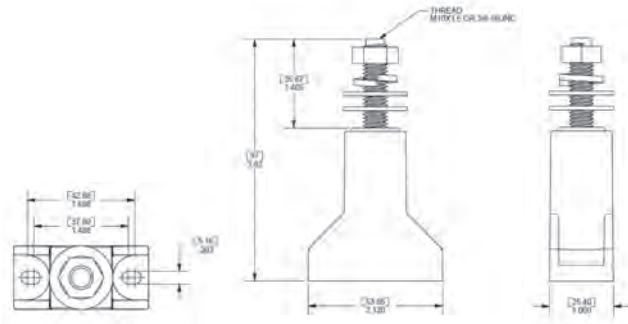


Figure 2

1SC/1MSC

Modular Semiconductor Fuse Blocks

DIMENSIONS - 1MSC:

| Catalog No. | Maximum Voltage Rating* | Current Rating I _n (A) | Pkg. | UR | Type | Connector | | Hardware | | Tightning Torque (lb.-in.) | | | Fig. |
|-------------|-------------------------|-----------------------------------|------|-----|--------|-------------------------|--|----------|--------|----------------------------|------|----------|------|
| | | | | | | Wire Range | | Bolt | Washer | Cable | Fuse | Mounting | |
| 1MSC101 | 600 | 100 | Each | Yes | Al Box | Al/Cu 2/0 - #6 | | 1/4" | 0.655" | 120 | 70 | 25 | 3 |
| 1MSC102 | 600 | 400 | Each | Yes | Al Box | Al/Cu (2) 250kcmil - #6 | | 1/4" | 0.655" | 275 | 120 | 25 | 4 |
| 1MSC103 | 600 | 400 | Each | Yes | Al Box | Al/Cu (2) 250kcmil - #6 | | 3/8" | 0.900" | 275 | 120 | 25 | 5 |
| 1MSC104 | 600 | 600 | Each | Yes | Al Box | Al/Cu (2) 500kcmil - #6 | | 3/8" | 0.900" | 375 | 170 | 25 | 6 |

For 1MSC, order quantity 2 to receive 1 pair.

*Voltage rating applies to AC and DC.

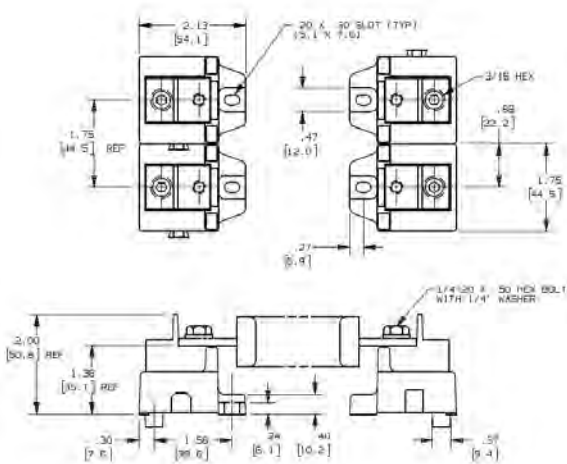


Figure 3

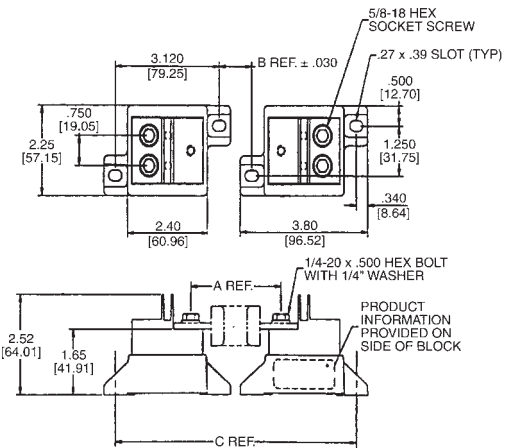


Figure 4

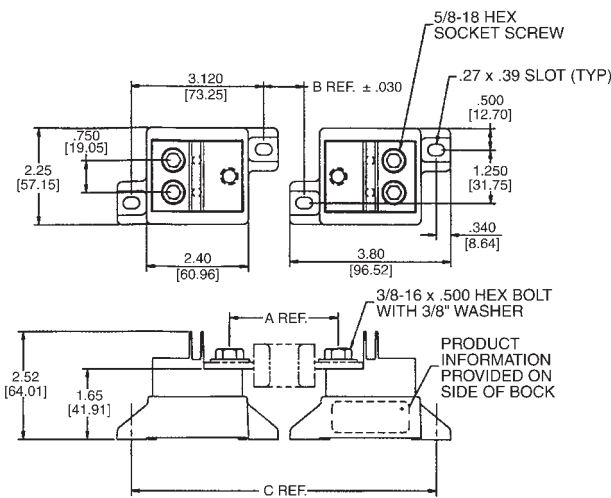


Figure 5

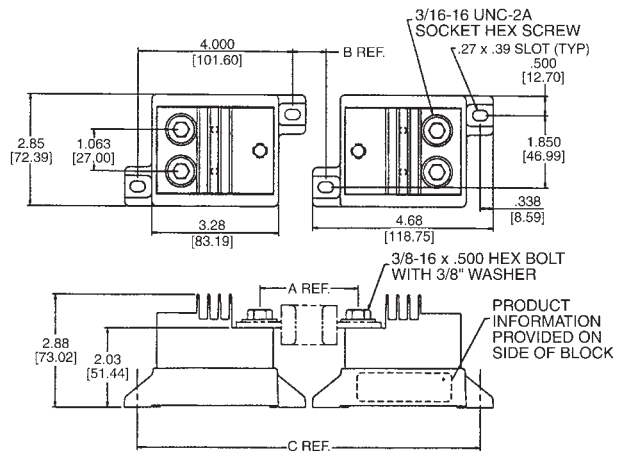


Figure 6

P-Block

P243/P266/P292 Fuse Blocks for use with Form 101 fuses

Mersen P243 and P266 series fuse blocks for Form 101 fuses are glass-filled polycarbonate or laminated phenolic insulator blocks with studs to accommodate bolt-in fuses. The P292 series has a laminated phenolic insulator base with fuse clips. All studs, clips and mounting hardware are tin or zinc plated.



RATINGS:

- **Amps:** 1 to 1000A
- **Clip Type:** 1200VAC or less
- **Stud Type:** 1000VAC or less

RECOMMENDED FOR USE WITH:

- Blade-style fuses

APPROVALS:

- UL Recognized Component guide IZLT2 File E52283
- CSA Certified C22.2, class 6225, File 32169



DIMENSIONS:

| For Use with | Current Rating I _n (A) | Catalog No. | Fig. | Dimensions - Inches | | | | | | | Stud Size | Torque (in lbs) |
|----------------------|-----------------------------------|-------------|------|---------------------|------|------|------|------|------|---------|-----------|-----------------|
| | | | | A | B | C | D | E | F | | | |
| A13X, A150S | 70-450 | P243D | 2 | 4.40 | 1.50 | 2.79 | 2.20 | 2.06 | 1.17 | 1/4-20 | 36 | |
| A13X, A150S | 500-600 | P243G | 2 | 4.40 | 1.50 | 2.79 | 2.20 | 2.44 | 0.98 | 5/16-18 | 84 | |
| A25X, A25Z, A300S | 35-60 | P243G | 2 | 4.40 | 1.50 | 2.79 | 2.20 | 2.44 | 0.98 | 5/16-18 | 84 | |
| A25X, A25Z, A300S | 70-200 | P243 | 1 | 4.50 | 1.50 | 2.50 | 2.25 | 2.38 | 1.06 | 1/4-20 | 36 | |
| A25X, A25Z, A300S | 225-600 | P243G | 2 | 4.40 | 1.50 | 2.79 | 2.20 | 2.44 | 0.98 | 5/16-18 | 84 | |
| A50P | 35-60 | P243G | 2 | 4.40 | 1.50 | 2.79 | 2.20 | 2.44 | 0.98 | 5/16-18 | 84 | |
| A50P, A50QS | 70-200 | P243E | 2 | 4.40 | 1.50 | 2.79 | 2.20 | 2.88 | 0.76 | 1/4-20 | 36 | |
| A50P, A50QS | 225-600 | P266C | 1 | 6.00 | 2.00 | 3.00 | 3.00 | 3.28 | 1.36 | 3/8-16 | 180 | |
| A60X, A60Z, A700S-4 | 35-200 | P243C | 2 | 4.40 | 1.50 | 2.79 | 2.20 | 3.62 | 0.39 | 1/4-20 | 36 | |
| A60X, A60Z, A700S-4 | 225-600 | P266A | 1 | 6.00 | 2.00 | 3.00 | 3.00 | 4.06 | 0.97 | 3/8-16 | 180 | |
| A70P, A70Q | 35-100 | P243C | 2 | 4.40 | 1.50 | 2.79 | 2.20 | 3.62 | 0.39 | 1/4-20 | 36 | |
| A70P, A70Q | 125-200 | P266A | 1 | 6.00 | 2.00 | 3.00 | 3.00 | 4.06 | 0.97 | 3/8-16 | 180 | |
| A70P, A70Q | 225-400 | P266A | 1 | 6.00 | 2.00 | 3.00 | 3.00 | 4.06 | 0.97 | 3/8-16 | 180 | |
| A700S-4K | 125-200 | P266A | 1 | 6.00 | 2.00 | 3.00 | 3.00 | 4.06 | 0.97 | 3/8-16 | 180 | |
| A70P, A70Q, A700S-4K | 450-600 | P266F | 1 | 8.00 | 2.50 | 3.00 | 4.00 | 5.09 | 1.45 | 3/8-16 | 180 | |
| A100P | 35-100 | P266G | 1 | 6.00 | 2.00 | 2.50 | 3.00 | 4.25 | 0.88 | 1/4-20 | 36 | |
| A100P | 125-400 | P266L | 1 | 6.00 | 2.00 | 3.00 | 3.00 | 4.66 | 0.67 | 3/8-16 | 180 | |
| A120X | 1-30 | P292 | 3 | - | - | - | - | - | - | - | - | |
| A300S | 700-800 | FH25F4 | 1 | 6.00 | 2.00 | 3.00 | 3.00 | 2.66 | 1.67 | 3/8-16 | 144 | |
| A500S | 700-800 | FH50F4 | 1 | 8.00 | 2.50 | 3.00 | 4.00 | 4.21 | 1.84 | 1/2-13 | 360 | |
| A500S | 900-1000 | FH50F5 | 1 | 8.00 | 2.50 | 3.00 | 4.50 | 4.97 | 1.50 | 1/2-13 | 360 | |
| A700S-4K | 450-600 | FH70F3 | 1 | 8.00 | 2.50 | 3.00 | 4.00 | 5.09 | 1.91 | 1/2-13 | 360 | |

Note: FH Blocks are 1" thick.

* Not UL or CSA Certified

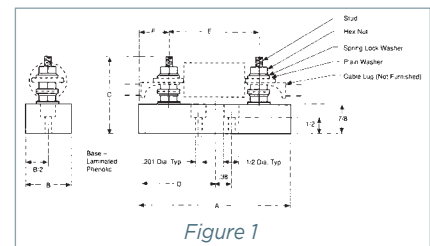


Figure 1

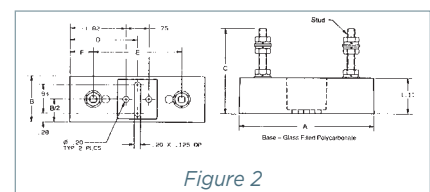


Figure 2

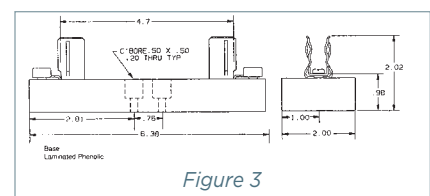


Figure 3

PS 20x127

Ferrule Fuse Holders and No-Load Disconnectors

FEATURES/BENEFITS:

- Solid assembly offers good thermal and mechanical withstand rating
- Fuse mounting in holders or no-load disconnectors with or without open fuse indicating microswitches
- Phenolic resin models for basic applications, fiber-glass polyester for applications in corrosive atmospheres or applications for traction
- Voltage = 1500 V and 2500 V



RATINGS:

- **Volts:** 1,500V, 2,500V
- **SCCR:** 42kA AC, 55kA DC

RECOMMENDED FOR USE WITH:

- 20 x 127 Ferrule Fuses

APPROVALS:

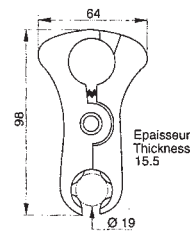
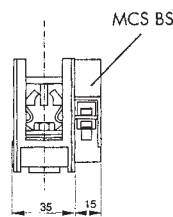
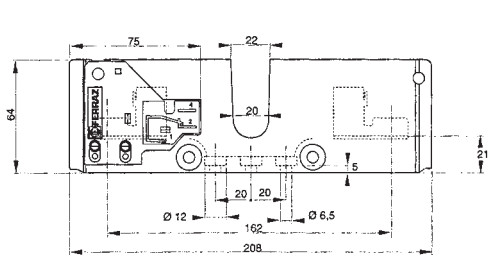
- UL Recognized component File E113357



Connecting with 50 mm² max. cable with copper terminals or with a 15 x 8 max. rigid or flexible bar.

DIMENSIONS:

| Description | Insulation voltage rating Ui AC 50/60 Hz or DC | Fuse current rating I _n (A) | Maximum operating current of fuse (A) | | | | | Advised copper wire size mm ² | Fire and fumes class NF F 16-101 and 102 and UL |
|------------------|---|--|---------------------------------------|-------------|--------------------|-------------|-------------|--|---|
| | | | 1000 V gLB | =1000 V gRC | =1000 V gRB | =1500 V gRB | =1500 V gRD | | |
| PSI 20X127 | 1500 V without terminal covers | 50 | | 50 | No Operating Limit | | | 10 | basic model 12-F1 UL 94 V1 |
| PSI 20X127 PRE | 2500 V with terminal covers and only salt spray-proof model | 63 | 80 | 56 | | | | 16 | |
| PSII 20X127 PRE | | 80 | 90 | 25 | | | | salt spray-proof model I1 - F1 UL 94 V0 | |
| PSIII 20X127 PRE | | 100 | 100 | 35 | | | | | |
| PSIV 20X127 PRE | | 125 | | 50 | | | | | |



CATALOG NUMBERS

FUSE HOLDERS AND ACCESSORIES:

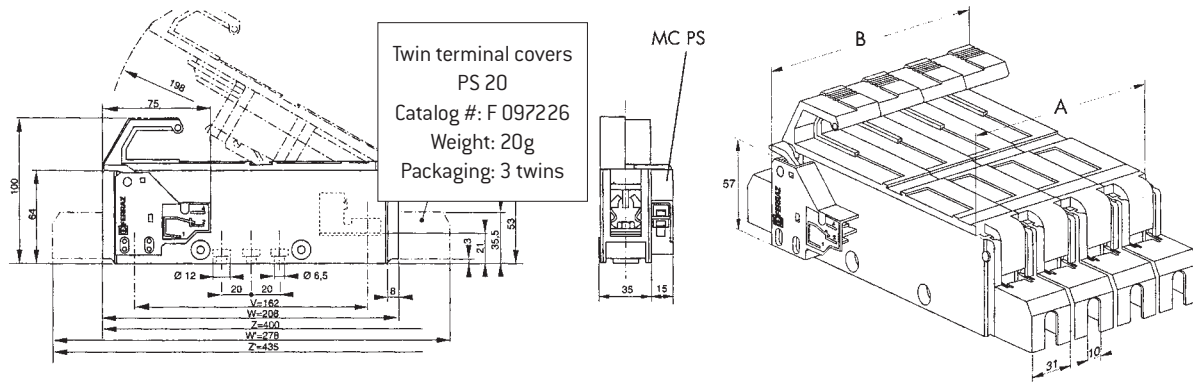
| Description | Catalog No. | Weight (g) | Packaging |
|---------------------|-------------|------------|-----------|
| PSI 20x127 | X 097310 | 260 | 3 pieces |
| PSI 20x127 + MCS BS | X 220130 | 290 | 2 pieces |

PMCP 20+22
Catalog #: K 100036
Weight: 40g
Packaging: 1

PS 20x127

Ferrule Fuse Holders and No-Load Disconnectors

FUSE NON-LOAD DISCONNECTORS AND ACCESSORIES:



V: Connecting distance between centers
 W: Clip for rail mounting in two positions
 W': With terminal cover length
 Y: Space factor with a 90° fuse carrier position

Z: Without terminal cover, space factor with a 180° fuse carrier position
 Z': With terminal cover, space factor with 180° fuse carrier position

| Description (basic model) | Catalog No. |
|---------------------------|-------------|
| PSI 20x127 PRE | F097203 |
| PSII 20x127 PRE | G097227 |
| PSIII 20x127 PRE | H097228 |
| PSIV 20x127 PRE | J097229 |
| PSI 20 x 127 PRE+MC PS | H097205 |
| PSII 20 x 127 PRE+MC PS | D097293 |
| PSIII 20 x 127 PRE+MC PS | E097294 |
| PSIV 20 x 127 PRE+MC PS | F097295 |

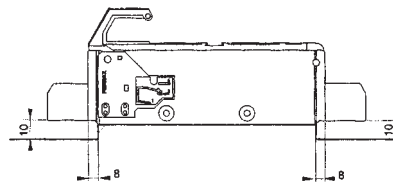
| No. of Poles | A | B |
|--------------|-----|-----|
| 1 | 35 | 50 |
| 2 | 69 | 84 |
| 3 | 103 | 118 |
| 4 | 137 | 152 |

| Preisolating and blown fuse indicating microswitch features | |
|---|---|
| Microswitch rated current | Non-inductive circuit interrupting rating |
| 3A - 50 Hz | 3A - 50 Hz |
| 3A - DC | 3A - DC |

Reliable minimum operating voltage/
 current: 10V - 10mA
 Connecting with 6.35 mm lug

| Description (salt spray-proof model) | Ref. No. |
|--------------------------------------|----------|
| PSI 20x127 PRE BS | G097204 |
| PSII 20x127 PRE BS | L097231 |
| PSIII 20x127 PRE BS | T097261 |
| PSIV 20x127 PRE BS | C097292 |
| PSI 20 x 127 PRE BS+MC PS | J097206 |
| PSII 20 x 127 PRE BS+MC PS | G097296 |
| PSIII 20 x 127 PRE BS+MC PS | H097297 |
| PSIV 20 x 127 PRE BS+MC PS | J097298 |

Distances when mounting on a conductive board @ $U_i = 2500$ VAC



USM

UltraSafe™ Fuse Holders for Midget 1-1/2" x 13/32" Fuses, IP20

Mersen UltraSafe Modular Fuse holders introduce a new level of safety for Midget 1-1/2" x 13/32" (USM) AC and DC-rated fuses up to 30 amperes. UltraSafe holders qualify as "Finger-safe" under IEC and DIN standards to an IP20 grade of protection, including fuse changing (with the flick of a finger). UltraSafe holders are available in 1, 2, 3 or 4 poles, with or without visual blown-fuse indicators in each pole. Multi-pole units can also be field assembled by ordering pin-tie handles.

UltraSafe holders save up to 15% mounting space and any combination can be snapped onto 35mm DIN-rail for extra savings in panel building time. UltraSafe body material is tough and durable polyamide, with exceptional insulating properties.



FEATURES/BENEFITS: RECOMMENDED FOR USE WITH:

- IP20 Finger-Safe (touch safe)
 - Optional visual blown fuse Indicator lights
 - DIN-rail mounting
 - Compact footprint
 - Quick, tool-free, easy fuse change outs
- ATQ, ATM*, A6Y-2B, A25Z-2, TRM, OTM, A13X-2, A60Q-2, DCT*, HP6M, HP10M

** Recommended for DC applications*

RATINGS:

- **Volts:** 800VAC Maximum, 1000VDC Maximum
- **Amps:** 30A Maximum
- **SCCR:** 200kA AC, 100kA DC

Min. voltage to operate indicator light: 90VAC, 115VDC [Less than 0.7 mA leakage current at 600V]

APPLICATIONS:

- All circuits up to 600 volts for motors, control circuits, transformers, etc.
- DC circuits up to 1000VDC including photovoltaic applications
- Non-load disconnect

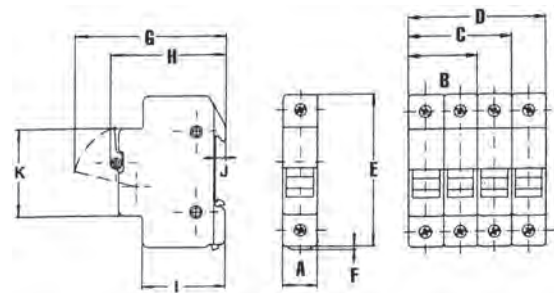
APPROVALS:

- UL Listed to Standard 4248-4 (class CC) and 4248-1 (midget), File E52283
- UL Listed to standard 4248-18 (photovoltaic), File E347822
- CSA Certified C22.2
- IEC 60269-2-1 and 60947-3 Compliant (USM only)



DIMENSIONS:

| Dimension | mm | In | Dimension | mm | In |
|-----------|------|------|-----------|------|------|
| A | 17.5 | 0.69 | G | 78.0 | 3.07 |
| B | 35.0 | 1.38 | H | 59.0 | 2.32 |
| C | 52.5 | 2.07 | I | 42.5 | 1.67 |
| D | 70.0 | 2.76 | J | 5.0 | 0.20 |
| E | 78.0 | 3.07 | K | 45.0 | 1.77 |
| F | 2.5 | 0.10 | | | |



CATALOG NUMBERS — FUSE HOLDERS:

| Fuse Type | Current Rating I _n (A) | Voltage Rating | | Visual Indication | No. of Poles | Catalog Number |
|--|-----------------------------------|----------------|------|-------------------|--------------|----------------|
| | | AC | DC | | | |
| Midget { 10 x 38mm } { 1-1/2" x 13/32" } | 30 | 800 | 1000 | No | 1 | USM1 |
| | 30 | 800 | 1000 | No | 2 | USM2 |
| | 30 | 800 | 1000 | No | 3 | USM3 |
| | 30 | 800 | 1000 | No | 4 | USM4 |
| | 30 | 800 | 1000 | No | 3+N | USM3N |
| | 30 | 600 | 600 | Yes | 1 | USM1I |
| | 30 | 600 | 600 | Yes | 2 | USM2I |
| | 30 | 600 | 600 | Yes | 3 | USM3I |
| | 30 | 600 | 600 | Yes | 4 | USM4I |
| | 30 | 600 | 600 | Yes | 3+N | USM3IN |
| | 30 | 120 | - | Yes | 1 | USM1I-AC120 |
| | 30 | - | 24 | Yes | 1 | USM1I-DC24 |

CATALOG NUMBERS—ACCESSORIES:

| Accessories Catalog No. | Description |
|-------------------------|------------------------------------|
| USN | 1-Pole with Intergral Neutral Link |
| USPTH | Pin-tie Accessory for 12-Poles |

IEC Ratings for USM: 690VAC / 1000VDC, 32A, 50kA SCCR

CSA Ratings for USM: 750VAC / 1000VDC, 30A



USPTH Pin-Tie Accessory



USM1 with USPTH Pin-Ties

ADDITIONAL SPECIFICATIONS:

- **Terminal screws:** Phillips/slot head
- **Suggested screw torque:** 14.75 in-lbs.
- **Wire range:** #14 to 6 AWG (2.5 to 16mm²) single conductor; #14 to 10 AWG (2.5 to 5.0 mm²) dual conductor
- **Wire type:** 60/75/90°C solid/stranded copper
- **Connector type:** Pressure plate
- **Load-break disconnect:** No
- **Environmental:** RoHS compliant, lead free
- **Operating temperature:** -40° to 85°C
- **Watts loss:** 3W or less
- **Flammability rating:** UL 94-V0
- **Optional Blown Fuse Indicator Lens Color:** Red

UltraSafe™ US14

For 14 x 51 mm A70QS, A70P, URC, URD Fuses

Mersen UltraSafe™ US14 modular fuse-holders are finger-safe under IEC standards to an IP20 grade of protection, including fuse changing (with the flick of a finger). Modular fuse-holders are available in 1, 2, 3 or 4 poles, with or without visual blown fuse indicator, in UL + IEC version.

Multi-pole units can also be field assembled by ordering pin-ties assembly kit. In this size, the range also offers the possibility to use microswitches (supplied with the holders or ordered separately) to allow remote indication.

UltraSafe™ range is made of tough and durable thermoplastic or thermoset material.



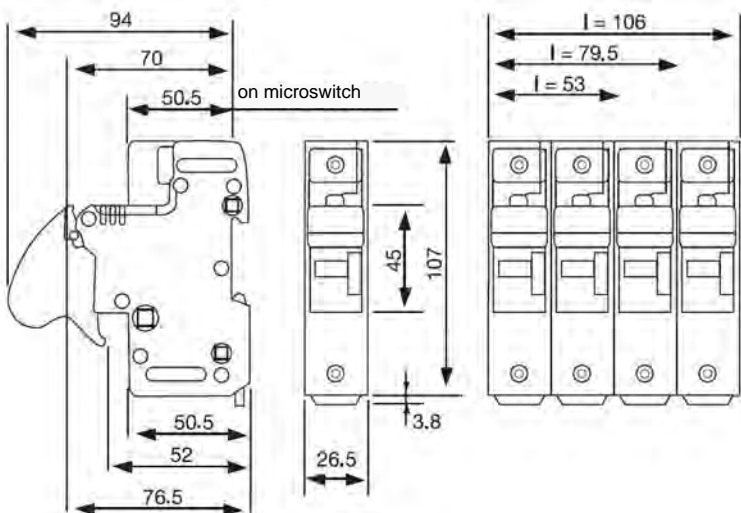
FEATURES/BENEFITS:

- Finger safe
- Degree of protection: IP20
- Optional visual blown fuse indicator & microswitch
- DIN rail mounting
- Modular design
- Lockable
- Multi-pole assembly kit available
- Sealable in closed and open position
- Plastic material UL94V2 mini
- Flame retardant materials with glow wire flammability index to 960°C

RATINGS:

- **Volts:** 750VAC/DC
- **Amps:** 50A (14 x 51 mm), 125A (22 x 58 mm)
- **SCCR:** 200kA

DIMENSIONS



RECOMMENDED FOR USE WITH:

- US14 use with 14 x 51 mm: A70QS, A70P, URC, URD



APPROVALS:

- UL Recognized Component, UL4248, guide IZLT2, file E52283
- CSA Certified C22.2, class 6225, file 32169
- IEC 60269-2 and IEC 60947-3
- RoHS Compliant
- Plastic material: NF 16101 & 16102 Requirement 2 Compliant

UltraSafe™ US14

For 14 x51 mm A70QS, A70P, URC, URD Fuses



US143

UltraSafe™ fuse holders for 14x51 fuse links, without indicator

| Catalog number | Item number | Number of poles/ phases | Design | Package | Weight |
|----------------|-------------|-------------------------|--------------------------------------|---------|---------|
| US141 | Z331153 | 1 | US14 single pole | 6 | 0.14 kg |
| US141N | D331157 | 1 + N | US14 single pole + neutral conductor | 3 | 0.30 kg |
| US142 | G331137 | 2 | US14 double pole | 3 | 0.28 kg |
| US143 | N331143 | 3 | US14 triple pole | 2 | 0.43 kg |
| US143N | X331151 | 3 + N | US14 triple pole + neutral conductor | 1 | 0.6 kg |



US141I

UltraSafe™ fuse holders for 14x51 fuse links, with indicator

| Catalog number | Item number | Number of poles/ phases | Design | Package | Weight |
|----------------|-------------|-------------------------|------------------|---------|---------|
| US141I | A331154 | 1 | US14 single pole | 6 | 0.14 kg |
| US142I | H331138 | 2 | US14 double pole | 3 | 0.3 kg |
| US143I | P331144 | 3 | US14 triple pole | 2 | 0.44 kg |



US142M2

UltraSafe™ fuse holders for 14x51 fuse-links, with auxiliary microswitch

| Catalog number | Item number | Number of poles/ phases | Design | Package | Weight |
|----------------|-------------|-------------------------|---|---------|---------|
| US141M | B331155 | 1 | US14 single pole, 1 microswitch | 6 | 0.15 kg |
| US142M | J331139 | 2 | US14 double pole, 2 microswitches | 3 | 0.31 kg |
| US142M2 | L331141 | 2 | US14 double pole, 2 connected microswitches | 3 | 0.31 kg |
| US143M | Q331145 | 3 | US14 triple pole | 2 | 0.45 kg |
| US143M2 | T331148 | 3 | US14 triple pole, 2 connected microswitches | 2 | 0.45 kg |
| US143NM | Y331152 | 3 + N | US14 triple pole + neutral conductor, 3 microswitches | 1 | 0.62 kg |



US143MI

UltraSafe™ fuse holders for 14x51 fuse-links, with indicator and auxiliary microswitch

| Catalog number | Item number | Number of poles/ phases | Design | Package | Weight |
|----------------|-------------|-------------------------|------------------|---------|---------|
| US141MI | C331156 | 1 | US14 single pole | 6 | 0.15 kg |
| US142MI | K331140 | 2 | US14 double pole | 3 | 0.31 kg |
| US142M2I | M331142 | 2 | US14 double pole | 3 | 0.28 kg |
| US143MI | S331147 | 3 | US14 triple pole | 2 | 0.46 kg |
| US143M2I | W331150 | 3 | US14 triple pole | 2 | 0.46 kg |

UltraSafe™ US14

For 14 x51 mm A70QS, A70P, URC, URD Fuses

TECHNICAL DATA

| | US14 | US14I | US14M | US14MI |
|--|--|--|--|--|
| Size | 14x51 | 14x51 | 14x51 | 14x51 |
| Number of poles/phases | 1, 1+N, 2, 3, 3+N, 4 | 1, 1+N, 2, 3, 3+N, 4 | 1, 1+N, 2, 3, 3+N, 4 | 1, 1+N, 2, 3, 3+N, 4 |
| UL ratings AC | 800VAC, 50A, 50kA | 800 VAC, 50 A, 50 kA | 800 VAC, 50 A, 50 kA | 800 VAC, 50 A, 50 kA |
| UL ratings DC | 1000VDC, 50A, 50kA | 1000 VDC, 50 A, 50 kA | 1000 VDC, 50 A, 50 kA | 1000 VDC, 50 A, 50 kA |
| Conventional free air thermal current with fuse links I_{th} | 50 A | 50 A | 50 A | 50 A |
| Power dissipation at I_{th} | 5 W | 5 W | 5 W | 5 W |
| Utilisation category | AC20B/DC20B | AC20B/DC20B | AC20B/DC20B | AC20B/DC20B |
| Rated insulation voltage U_i | 690 V | 690 V | 690 V | 690 V |
| SCCR | 100 kA | 100 kA | 100 kA | 100 kA |
| Rated impulse withstand voltage U_{imp} | 8 kV | 8 kV | 8 kV | 8 kV |
| Degree of protection | IP 20 | IP 20 | IP 20 | IP 20 |
| Voltage limit for blown fuse indicator | - | 230 to 690V AC/DC | - | 230 to 690V AC/DC |
| Indication System | - | with indicator | with auxiliary microswitch | with indicator and auxiliary microswitch |
| Operating temperature | -25°C to 60°C | -25°C to 60°C | -25°C to 60°C | -25°C to 60°C |
| Storage temperature | -25°C to 80°C | -25°C to 80°C | -25°C to 80°C | -25°C to 80°C |
| Connection | Max. tightening torque: 3.5Nm (30lbs-in) Rigid wire = 1.5-35mm ² (16-3AWG) Stranded wire = 1.5-25mm ² (16-4AWG) PZ2 or flat 5.5x1mm screw drivers recommended (max. diameter 6mm) | Max. tightening torque: 3.5Nm (30lbs-in) Rigid wire = 1.5-35mm ² (16-3AWG) Stranded wire = 1.5-25mm ² (16-4AWG) PZ2 or flat 5.5x1mm screw drivers recommended (max. diameter 6mm) | Max. tightening torque: 3.5Nm (30lbs-in) Rigid wire = 1.5-35mm ² (16-3AWG) Stranded wire = 1.5-25mm ² (16-4AWG) PZ2 or flat 5.5x1mm screw drivers recommended (max. diameter 6mm) | Max. tightening torque: 3.5Nm (30lbs-in) Rigid wire = 1.5-35mm ² (16-3AWG) Stranded wire = 1.5-25mm ² (16-4AWG) PZ2 or flat 5.5x1mm screw drivers recommended (max. diameter 6mm) |

SPECIFIC USAGE CONDITIONS

| Ambient temperature | >20°C | 30°C | 40°C | 50°C | 60°C |
|---------------------------|-------|------|------|------|------|
| Derating factor (I_a) | 1 | 0.95 | 0.9 | 0.8 | 0.7 |

| No of poles (side by side) | 1 to 3 | 4 to 6 | >/= 7 |
|---|--------|--------|-------|
| Derating factor of current (I_{th}) | 1 | 0.95 | 0.9 |

| Nominal current of fuse-link gR | 25 A | 32 A | 40 A | 50 A | 63 A |
|---|-------------------|-------------------|--------------------|--------------------|--------------------|
| Max. operational current in fuse-holder | 23 A | 28 A | 34 A | 40 A | 46 A |
| Cable wire section | 4 mm ² | 6 mm ² | 10 mm ² | 10 mm ² | 16 mm ² |

UltraSafe™ US14

For 14 x51 mm A70GS, A70P, URC, URD Fuses

FUNCTIONS



Indicator light kit for US14

With the indicator light a blown fuse can be quickly located if power is still on.

1. Carefully remove the cover with 2 screw drivers.



2. Slip the indicator light's to insert into the rails, being careful not to twist the contact tabs.

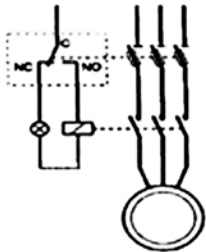


3. Put the cover back on.

UltraSafe™ US14

For 14 x51 mm A70QS, A70P, URC, URD Fuses

FUNCTIONS

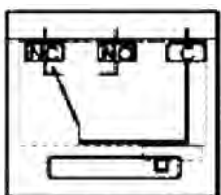


Auxiliary microswitch functions

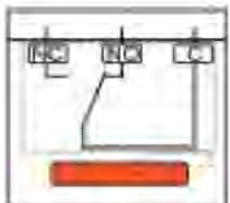
Fuse melting: a fuse-holder containing a fuse with a striker sends out a signal when the fuse element melts.

Pre-isolation: when opening the fuse-holder, the microswitch sends a signal before the opening of the main contacts.

Presence: sends a signal when the holder is closed with no fuse in it.



With the fuse in the handle closed state



No fuse - Fuse blown in handle open

Characteristics

Rated insulation voltage: 250VAC

Rated operational current following IEC 60947-5 & -1

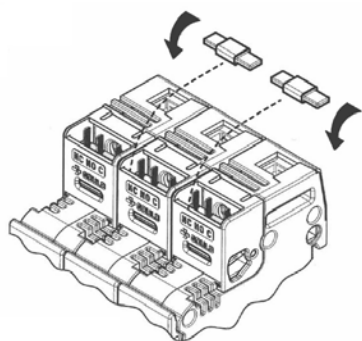
Utilization category AC15: 4A/24V, 4A/48V, 3A/127V, 2.5A/240V

Utilization category DC13: 3A/24V, 1A/48V, 0.2A/127V, 0.1A/240V

Minimum operational current and voltage: 1mA/4V AC or DC

Auxiliary microswitch is designed to operate equally well on dual-current (1mA 4V minimum) or medium-current (5A maximum) circuits. However, a given product should only be used to switch one type of circuit during its working life.

Connection: Faston lugs



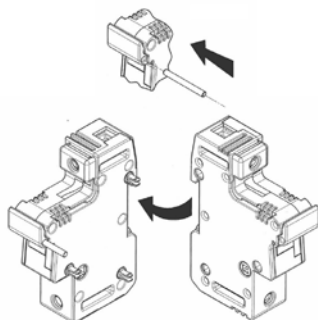
Mechanically interconnected

3 X USMSW1 + 2 X US1422PTH

UltraSafe™ US14

For 14 x51 mm A70QS, A70P, URC, URD Fuses

ACCESSORIES



Multiphase connection kit

Kit for multi-phase connection

| Catalog number | Item number | Design | Package | Weight |
|----------------|-------------|---|---------|--------|
| US14PAK | US14PAK | links for connection of multipole units | 10 | 2.5 g |
| US14PAK | US14PAK | links for connection of multipole units | 10 | 2.5 g |
| US14PAK | US14PAK | links for connection of multipole units | 10 | 2.5 g |
| US14PAK | US14PAK | links for connection of multipole units | 10 | 2.5 g |
| US14PAK | US14PAK | links for connection of multipole units | 10 | 2.5 g |

Auxiliary Switches

| Catalog number | Item number | Design | Package | Weight |
|----------------|-------------|--------------------------------------|---------|--------|
| USMSW1 | USMSW1 | Auxiliary contact kit 1 pole US14 | 1 | 25 g |
| USMSW2 | USMSW2 | Auxiliary contact kit 3 poles US14 | 1 | 20 g |
| USMSW3 | USMSW3 | 2 Auxiliary contact kit 3 poles US14 | 1 | 27 g |



LOCK

Kit for multi-phase connection

| Catalog number | Item number | Features | Package | Weight |
|----------------|-------------|-------------------------------|---------|---------|
| LOCK | M223525 | Padlock | 1 | 0.48 kg |
| TAGLOCKCMS14 | T1015927 | Locking kit (Tag and lockout) | 1 | 20 g |

Power supply

| Catalog number | Item number | Application | Features | Package | Weight |
|----------------|-------------|----------------------|--|---------|--------|
| TBB1A | D210315 | Max. rms current 90A | 1 phase axial incoming power supply | 50 | 10.1 g |
| TBB1C | E210316 | Max. rms current 90A | 1 phase lateral incoming power supply | 50 | 10 g |
| TBB23A | F210317 | Max. rms current 90A | 2 & 3 phases axial incoming power supply | 50 | 23.3 g |
| TBB23C | G210318 | Max. rms current 90A | 2 & 3 phases lateral incoming power supply | 50 | 23.1 g |



TBB1A

TBB1C

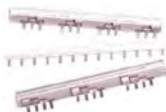


TBB23A

TBB23C

Wiring bars / Insulated bus bars

| Catalog number | Item number | Design | Application | Package | Weight |
|----------------|-------------|-------------|--|---------|---------|
| CMS14BB3F4 | A210312 | triple pole | Max. rms current 100A, for installation of 4 modules | 5 | 0.12 kg |
| CMS14BB2F6 | Z210311 | double pole | Max. rms current 63A, for installation of 6 modules | 5 | 0.1 kg |
| CMS14BB1F12 | Y210310 | single pole | Max. rms current 63A, for installation of 12 modules | 5 | 47.4 g |



Indication facilities

| Catalog number | Item number | Features | Package | Weight |
|----------------|-------------|---------------------|---------|--------|
| CMS1422LHI | A225653 | Indicator light kit | 1 | 10 g |

UltraSafe™ US22

For Use with 22 x 58 mm: A70QS, URD Fuses

Mersen's UltraSafe™ US22 modular fuse holders are finger-safe under IEC standards to an IP20 grade of protection, including fuse changing (with the flick of a finger). Modular fuse-holders are available in 1, 2, 3 or 4 poles, with or without visual blown fuse indicator, in UL + IEC version.

Multi-pole units can also be field assembled by ordering pin-ties assembly kit. In this size, the range also offers the possibility to use microswitches (supplied with the holders or ordered separately) to allow remote indication.

UltraSafe™ range is made of tough and durable thermoplastic or thermoset material.

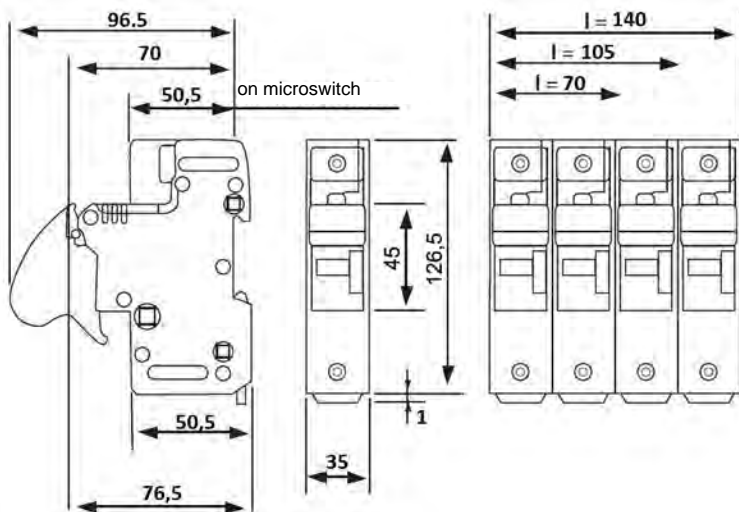
FEATURES/BENEFITS:

- Finger safe
- Degree of protection: IP20
- Optional visual blown fuse indicator & microswitch
- DIN rail mounting
- Modular design
- Lockable
- Multi-pole assembly kit available
- Sealable in closed and open position
- Plastic material UL94V2 mini
- Flame retardant materials with glow wire flammability index to 960°C

RATINGS:

- **Volts:** 800VAC (SCCR: 50kA), 1000VDC (SCCR: 100kA)
- **Amps:** 125A Maximum

DIMENSIONS



RECOMMENDED FOR USE WITH:

- 22x58mm ferrule, A70QS, URD Fuses

APPROVALS:

- UL Recognized Component, UL4248, guide IZLT2, file E52283
- CSA Certified C22.2, class 6225, file 32169
- IEC 60269-2 and IEC 60947-3
- RoHS Compliant
- Plastic material: NF 16101 & 16102 Requirement 2 Compliant

UltraSafe™ US22

For Use with 22 x 58 mm: A70QS, URD Fuses



US221

UltraSafe™ fuse holders for 22x58 fuse links, without indicator

| Catalog number | Item number | Number of poles/ phases | Design | Package | Weight |
|----------------|-------------|-------------------------|---------------------------------|---------|---------|
| US223 | R331169 | 3 | triple pole | 2 | 0.64 kg |
| US223N | X331174 | 3 + N | triple pole + neutral conductor | 1 | 0.91 kg |
| US221 | E331158 | 1 | single pole | 6 | 0.21 kg |
| US222 | K331163 | 2 | double pole | 3 | 0.44 kg |
| US221N | H331161 | 1 + N | single pole + neutral conductor | 3 | 0.45 kg |



US223I

UltraSafe™ fuse holders for 22x58 fuse links, with indicator

| Catalog number | Item number | Number of poles/ phases | Design | Package | Weight |
|----------------|-------------|-------------------------|-------------|---------|---------|
| US221I | F331159 | 1 | single pole | 6 | 0.22 kg |
| US222I | L331164 | 2 | double pole | 3 | 0.33 kg |
| US223I | S331170 | 3 | triple pole | 2 | 0.44 kg |



US222M

UltraSafe™ fuse holders for 22x58 fuse links, with auxiliary microswitch

| Catalog number | Item number | Number of poles/ phases | Design | Package | Weight |
|----------------|-------------|-------------------------|---------------------------------|---------|---------|
| US221M | G331160 | 1 | single pole | 6 | 0.15 kg |
| US221NM | J331162 | 1 + N | single pole + neutral conductor | 3 | 0.47 kg |
| US222M | M331165 | 2 | double pole | 3 | 0.46 kg |
| US222M2 | P331167 | 2 | double pole | 3 | 0.46 kg |
| US223M | T331171 | 3 | triple pole | 2 | 0.67 kg |
| US223M2 | W331173 | 3 | triple pole | 2 | 0.67 kg |



US222MI

UltraSafe™ fuse holders for 22x58 fuse links, with indicator and auxiliary microswitch

| Catalog number | Item number | Number of poles/ phases | Design | Package | Weight |
|----------------|-------------|-------------------------|-------------|---------|---------|
| US221MI | Z1006203 | 1 | single pole | 6 | 0.22 kg |
| US222MI | N331166 | 2 | double pole | 3 | 0.46 kg |
| US223M2I | X1011974 | 3 | triple pole | 2 | 0.65 kg |
| US222M2I | Q331168 | 2 | double pole | 3 | 0.47 kg |
| US223MI | V331172 | 3 | triple pole | 2 | 0.68 kg |

UltraSafe™ US22

For Use with 22 x 58 mm: A70QS, URD Fuses

TECHNICAL DATA

| | US22 | US22I | US22M | US22MI |
|--|--|--|--|--|
| Size | 22x58 | 22x58 | 22x58 | 22x58 |
| Number of poles/phases | 1, 1+N, 2, 3, 3+N | 1, 2, 3 | 1, 1+N, 2, 3 | 1, 2, 3 |
| UL ratings AC | 800 VAC, 125 A, 50 kA | 800 VAC, 125 A, 50 kA | 800 VAC, 125 A, 50 kA | 800 VAC, 125 A, 50 kA |
| UL ratings DC | 1000 VDC, 125 A, 100 kA | 1000 VDC, 125 A, 100 kA | 1000 VDC, 125 A, 100 kA | 1000 VDC, 125 A, 100 kA |
| Conventional free air thermal current with fuse links I_{th} | 125 A | 125 A | 125 A | 125 A |
| Power dissipation at I_{th} | 9.5 W | 9.5 W | 9.5 W | 9.5 W |
| Utilisation category | AC20B/DC20B | AC20B/DC20B | AC20B/DC20B | AC20B/DC20B |
| Rated insulation voltage U_i | 750 V | 750 V | 750 V | 750 V |
| SCCR | 100 kA | 100 kA | 100 kA | 100 kA |
| Rated impulse withstand voltage U_{imp} | 8 kV | 8 kV | 8 kV | 8 kV |
| Degree of protection | IP 20 | IP 20 | IP 20 | IP 20 |
| Voltage limit for blown fuse indicator | - | 230 to 690V AC/DC | - | 230 to 690V AC/DC |
| Indication System | - | with indicator | with auxiliary microswitch | with indicator and auxiliary microswitch |
| Operating temperature | -25°C to +60°C | -25°C to 60°C | -25°C to 60°C | -25°C to 60°C |
| Storage temperature | -25°C to +80°C | -25°C to 80°C | -25°C to 80°C | -25°C to 80°C |
| Connection | Max. tightening torque: 4Nm (35lbs-in) Rigid wire = 1.5-50mm ² (16-1AWG) Multistrand wire = 35mm ² (3AWG) PZ2 or flat 6.5x1.2mm screw drivers recommended (max. diameter 7mm) | Max. tightening torque: 4Nm (35lbs-in) Rigid wire = 1.5-50mm ² (16-1AWG) Multistrand wire = 35mm ² (3AWG) PZ2 or flat 6.5x1.2mm screw drivers recommended (max. diameter 7mm) | Max. tightening torque: 4Nm (35lbs-in) Rigid wire = 1.5-50mm ² (16-1AWG) Multistrand wire = 35mm ² (3AWG) PZ2 or flat 6.5x1.2mm screw drivers recommended (max. diameter 7mm) | Max. tightening torque: 4Nm (35lbs-in) Rigid wire = 1.5-50mm ² (16-1AWG) Multistrand wire = 35mm ² (3AWG) PZ2 or flat 6.5x1.2mm screw drivers recommended (max. diameter 7mm) |

SPECIFIC USAGE CONDITIONS

| Ambient temperature | >20°C | 30°C | 40°C | 50°C | 60°C |
|---------------------------|-------|------|------|------|------|
| Derating factor (I_e) | 1 | 0.95 | 0.9 | 0.8 | 0.7 |

| No of poles (side by side) | 1 to 3 | 4 to 6 | >/= 7 |
|---|--------|--------|-------|
| Derating factor of current (I_{th}) | 1 | 0.95 | 0.9 |

| Nominal current of fuse-link gR | 25 A | 32 A | 40 A | 50 A | 63 A |
|---|-------------------|-------------------|--------------------|--------------------|--------------------|
| Max. operational current in fuse-holder | 23 A | 28 A | 34 A | 40 A | 46 A |
| Cable wire section | 4 mm ² | 6 mm ² | 10 mm ² | 10 mm ² | 16 mm ² |

UltraSafe™ US22

For Use with 22 x 58 mm: A70QS, URD Fuses

FUNCTIONS



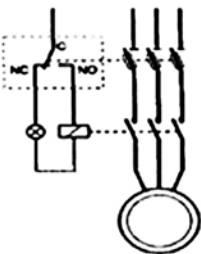
Indicator light kit for US22

With the indicator light a blown fuse can be quickly located if power is still on.

1. Carefully remove the cover with 2 screw drivers.

2. Slip the indicator light's to insert into the rails, being careful not to twist the contact tabs.

3. Put the cover back on.

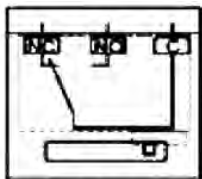


Auxiliary microswitch functions

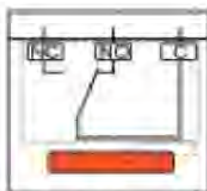
Fuse melting: a fuse-holder containing a fuse with a striker sends out a signal when the fuse element melts.

Pre-isolation: when opening the fuse-holder, the microswitch sends a signal before the opening of the main contacts.

Presence: sends a signal when the holder is closed with no fuse in it.



With the fuse in the handle closed state



No fuse - Fuse blown in handle open

Characteristics

Rated insulation voltage: 250VAC

Rated operational current following IEC 60947-5 & -1

Utilization category AC15: 4A/24V, 4A/48V, 3A/127V, 2.5A/240V

Utilization category DC13: 3A/24V, 1A/48V, 0.2A/127V, 0.1A/240V

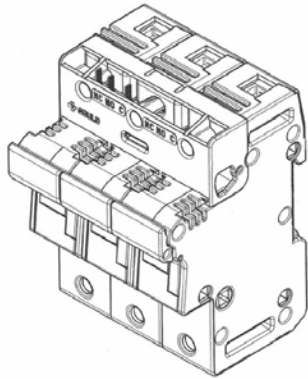
Minimum operational current and voltage: 1mA/4V AC or DC

Auxiliary microswitch is designed to operate equally well on dual-current (1mA 4V minimum) or medium-current (5A maximum) circuits. However, a given product should only be used to switch one type of circuit during its working life.

Connection: Faston lugs

UltraSafe™ US22

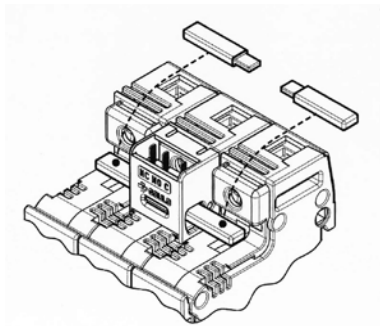
For Use with 22 x 58 mm: A70QS, URD Fuses



Auxiliary microswitch can only be mounted on previously prepared fuse disconnecters. Use of the auxiliary microswitch for fuse melting requires the use of fuses with strikers.

1 auxiliary microswitch

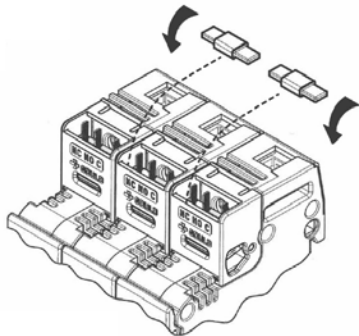
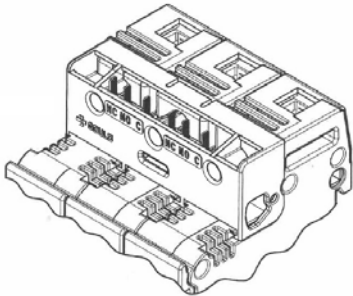
Auxiliary microswitch is designed to operate equally well on dual-current (1mA 4V minimum) or medium-current (5A maximum) circuits. However, a given product should only be used to switch one type of circuit during its working life. Connection: Faston lugs



USMSW4

2 auxiliary microswitches

USMSW4 + US1422BP

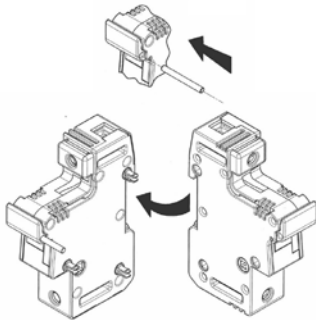


3 x USMSW4

UltraSafe™ US22

For Use with 22 x 58 mm: A70QS, URD Fuses

ACCESSORIES



multiphase connection kit



LOCK



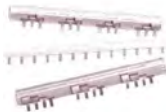
TBB1A

TBB1C



TBB23A

TBB23C



Kit for multi-phase connection

| Catalog number | Item number | Design | Package | Weight |
|----------------|-------------|---|---------|---------|
| US22PAK | US22PAK | links for connection of multipole units | 10 | 0.48 kg |

Auxiliary Switches

| Catalog number | Item number | Design | Package | Weight |
|----------------|-------------|---|---------|--------|
| CMS22W2 | CMS22W2 | Auxiliary microswitch kit 3 poles CMS22 | 1 | 32 g |
| CMS22W3 | CMS22W3 | 2 Auxiliary microswitches kit 3 poles CMS22 | 1 | 35 g |
| USMSW4 | USMSW4 | Auxiliary contact kit 1 pole US22 | 1 | 20 g |

Locking devices

| Catalog number | Item number | Design | Package | Weight |
|----------------|-------------|-------------------------------|---------|---------|
| LOCK | M223525 | Padlock | 1 | 0.48 kg |
| TAGLOCKCMS22 | V1015928 | Locking kit (Tag and lockout) | 1 | 25 g |

Power Supply

| Catalog number | Item number | Application | Features | Package | Weight |
|----------------|-------------|----------------------|--|---------|--------|
| TBB1A | D210315 | Max. rms current 90A | 1 phase axial incoming power supply | 50 | 10.1 g |
| TBB1C | E210316 | Max. rms current 90A | 1 phase lateral incoming power supply | 50 | 10 g |
| TBB23A | F210317 | Max. rms current 90A | 2 & 3 phases axial incoming power supply | 50 | 23.3 g |
| TBB23C | G210318 | Max. rms current 90A | 2 & 3 phases lateral incoming power supply | 50 | 23.1 g |

Wiring bars / Insulated bus bars

| Catalog number | Item number | Design | Application | Package | Weight |
|----------------|-------------|-------------|--|---------|---------|
| CMS22BB2F6 | C210314 | double pole | Max. rms current 150A, for installation of 6 modules | 5 | 0.30 kg |
| CMS22BB1F12 | B210313 | single pole | Max. rms current 90A, for installation of 12 modules | 5 | 81 g |

Indication facilities

| Catalog number | Item number | Features | Package | Weight |
|----------------|-------------|---------------------|---------|--------|
| CMS1422LHI | A225653 | Indicator light kit | 1 | 10 g |

Modulostar® CMS27 - UltraSafe™ US27

For use with 27x60 fuse links. IP20

The innovative and comprehensive Modulostar® range of Mersen fuse-holders.

Modular fuse-holders are finger-safe as per IEC standards to an IP20 grade of protection. Including fuse changing, with the flick of a finger. Modular fuse-holders are available in 1, 2 or 3 poles, with or without visual blown fuse indicators, in IEC + UL version.

Multi-pole units can also be field assembled by ordering pin-ties assembly kit. The range offers the possibility to use microswitches (supplied with the holders or ordered separately) to allow remote indication. Modulostar® range is made of tough and durable thermoplastic or thermoset material.



FEATURES/BENEFITS:

- Finger safe
- Degree of protection: IP20
- Optional visual blown fuse indicator & microswitch
- Designs available for DIN rail mounting and direct mounting on board
- Modular design
- Multi-pole assembly kit available
- Plastic material UL94V2 mini
- Flame retardant materials with glow wire flammability index to 960°C

RECOMMENDED FOR USE WITH:

- 27x60mm ferrule fuses

RATINGS:

- **Volts:** 800V
- **Amps:** 140A Maximum

APPLICATIONS:

- All circuits up to 800V using high speed fuses for protection of small inverters, UPS systems, motor drives, etc.
- Non-load operation

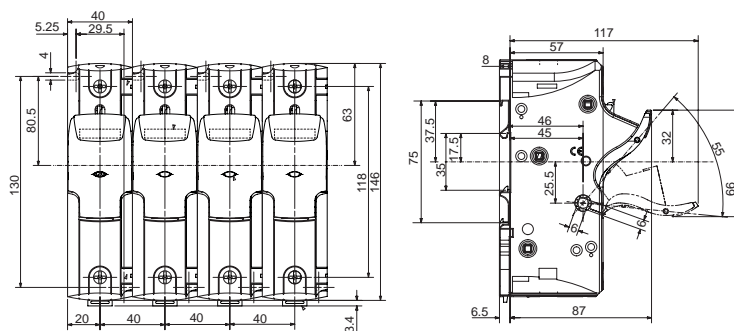
APPROVALS:

- IEC 60269-2 and IEC 60947-3 Compliance
- UL4248-1 Compliant
- RoHS Compliant
- Plastic material: NF 16101 & 16102 Requirement 2 Compliant
- Vibration tested for marine and railway applications
- CCC (screw terminal connection only)

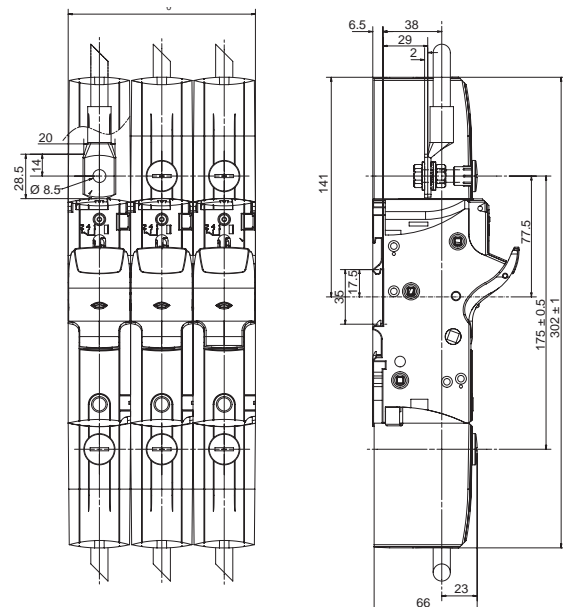


DIMENSIONS

Modulostar® CMS27 UltraSafe™ US27 fuse-holders for cylindrical fuse-links class 27x60mm (0114931)
Terminal connection: screw, U bolt or connector



Modulostar® CMS27 UltraSafe™ US27 fuse-holders for cylindrical fuse-links class 27x60mm (C118276) terminal connection: ring lug



Dimensions in mm

Modulostar[®] CMS27 - UltraSafe[™] US27

For use with 27x60 fuse links. IP20



CMS27I

Modulostar[®] fuse holders for 27x60 fuse-links, without indicator

| Catalog number | Item number | Number of poles/phases | Design | Package | Weight |
|----------------|-------------|------------------------|---------------------------------|---------|---------|
| CMS271 | R210580 | 1 | single pole | 3 | 0.30 kg |
| CMS271N | S210581 | 1 + N | single pole + neutral conductor | 1 | 0.72 kg |
| CMS272 | T210582 | 2 | double pole | 1 | 0.67 kg |
| CMS273 | V210583 | 3 | triple pole | 1 | 0.91 kg |
| CMS273N | W210584 | 3 + N | triple pole + neutral conductor | 1 | 1.25 kg |
| CMS27N | B210152 | N | neutral conductor | 3 | 0.37 kg |



US27II

UltraSafe[™] fuse holders for 27x60 fuse-links, with indicator

| Catalog number | Item number | Number of poles/phases | Design | Package | Weight |
|----------------|-------------|------------------------|---------------------------------|---------|---------|
| US271I | J226420 | 1 | single pole | 3 | 0.30 kg |
| US271NI | K226421 | 1+N | single pole + neutral conductor | 1 | 0.73 kg |
| US272I | L226422 | 2 | double pole | 1 | 0.67 kg |
| US273I | M226423 | 3 | triple pole | 3 | 1 kg |
| US273NI | N226424 | 3+N | triple pole + neutral conductor | 1 | 1.27 kg |



US273

UltraSafe[™] fuse holders for 27x60 fuse-links, without indicator

| Catalog number | Item number | Number of poles/phases | Design | Package | Weight |
|----------------|-------------|------------------------|-------------------|---------|---------|
| US271 | G320005 | 1 | single pole | 3 | 0.30 kg |
| US272 | H320006 | 2 | double pole | 1 | 0.66 kg |
| US273 | J320007 | 3 | triple pole | 3 | 0.9 kg |
| US27N | R232729 | N | neutral conductor | 3 | 0.37 kg |



US271MI

UltraSafe[™] fuse holders for 27x60 fuse-links, with auxiliary microswitch and indicator

| Catalog number | Item number | Number of poles/phases | Design | Package | Weight |
|----------------|-------------|------------------------|------------------------------|---------|---------|
| US271MI | R227600 | 1 | single pole | 1 | 0.32 kg |
| US272M2I | T227602 | 2 | double pole, 2 microswitches | 1 | 0.7 kg |
| US272MI | S227601 | 2 | double pole, 1 microswitch | 1 | 0.68 kg |

UltraSafe[™] fuse holders for 27x60 fuse-links, with auxiliary microswitch, indicator, and ring lug connection

| Catalog number | Item number | Number of poles/phases | Design | Package | Weight |
|----------------|-------------|------------------------|------------------------------|---------|---------|
| US271MIRING | Z227607 | 1 | single pole | 1 | 0.54 kg |
| US272M2IRING | B227609 | 2 | double pole, 2 microswitches | 1 | 1.00 kg |

UltraSafe[™] fuse holders for 27x60 fuse-links, with indicator and ring lug connection

| Catalog number | Item number | Number of poles/phases | Design | Package | Weight |
|----------------|-------------|------------------------|---------------------------------|---------|---------|
| US271NIRING | E223518 | 1+N | single pole + neutral conductor | 1 | 0.8 kg |
| US27IRING | B223515 | 1 | single pole | 3 | 0.47 kg |
| US272IRING | C223516 | 2 | double pole | 1 | 1.00 kg |
| US273IRING | D223517 | 3 | triple pole | 3 | 1.39 kg |
| US27NIRING | F223519 | N | neutral conductor | 3 | 0.34 kg |

Modulostar[®] CMS27 - UltraSafe[™] US27

For use with 27x60 fuse links. IP20

TECHNICAL DATA

| | CMS27 | US27I | US27 | US27M | US27MIRING | US27IRING |
|--|--|--|--|--|--|--|
| Size | 27x60 | 27x60 | 27x60 | 27x60 | 27x60 | 27x60 |
| Installation mode | direct mounting on board: 2xM4 screw with tightening torque 1-1.2Nm [8 to 10.6lbs-in] | direct mounting on board: 2xM4 screw with tightening torque 1-1.2Nm [8 to 10.6lbs-in] | direct mounting on board: 2xM4 screw with tightening torque 1-1.2Nm [8 to 10.6lbs-in] | direct mounting on board: 2xM4 screw with tightening torque 1-1.2Nm [8 to 10.6lbs-in] | direct mounting on board: 2xM4 screw with tightening torque 1-1.2Nm [8 to 10.6lbs-in] | direct mounting on board: 2xM4 screw with tightening torque 1-1.2Nm [8 to 10.6lbs-in] |
| Number of poles/phases | 1, 1+N, 2, 3, 3+N | 1, 1+N, 2, 3, 3+N | 1, 1+N, 2, 3 | 1, 2 | 1, 2 | 1, 1+N, 2, 3 |
| Conventional free air thermal current with fuse links I_{th} | 140 A | 140 A | 140 A | 140 A | 140 A | 140 A |
| Max. power dissipation of fuse links P_n | 11 W | 11 W | 11 W | 11 W | 11 W | 11 W |
| Utilisation category | AC20B/DC20B | AC20B/DC20B | AC20B/DC20B | AC20B/DC20B | AC20B/DC20B | AC20B/DC20B |
| Rated insulation voltage U_i | 800 V | 800 V | 800 V | 800 V | 800 V | 800 V |
| Rated impulse withstand voltage U_{imp} | 8 kV | 8 kV | 8 kV | 8 kV | 8 kV | 8 kV |
| Degree of protection | IP 20 | IP 20 | IP 20 | IP 20 | IP 20 | IP 20 |
| Voltage limit for blown fuse indicator | - | 230 to 690V AC/DC | - | - | - | 230 to 690V AC/DC |
| Indication System | - | with indicator | - | with auxiliary microswitch | with auxiliary microswitch and special connection | with indicator and special connection |
| Operating temperature | -25°C to 60°C | -25°C to 60°C | -25°C to 60°C | -25°C to 60°C | -25°C to 60°C | -25°C to 60°C |
| Storage temperature | -25°C to 80°C | -25°C to 80°C | -25°C to 80°C | -25°C to 80°C | -25°C to 80°C | -25°C to 80°C |
| Connection | rigid wire = 1.5-50mm ² [16-1/OAWG] multistrand wire = 1.5-16mm ² [16-6AWG] recommended tightening torque: 3.5Nm [30lbs-in] PZ3 or flat 8x1.2mm screw drivers recommended | rigid wire = 1.5-50mm ² [16-1/OAWG] multistrand wire = 1.5-16mm ² [16-6AWG] recommended tightening torque: 3.5Nm [30lbs-in] PZ3 or flat 8x1.2mm screw drivers recommended | rigid wire = 1.5-50mm ² [16-1/OAWG] multistrand wire = 1.5-16mm ² [16-6AWG] recommended tightening torque: 3.5Nm [30lbs-in] PZ3 or flat 8x1.2mm screw drivers recommended | rigid wire = 1.5-50mm ² [16-1/OAWG] multistrand wire = 1.5-16mm ² [16-6AWG] recommended tightening torque: 3.5Nm [30lbs-in] PZ3 or flat 8x1.2mm screw drivers recommended | - | - |
| Auxiliary switches | | | | | | |
| Rated insulation voltage AC | 250 V | 250 V | 250 V | 250 V | 250 V | 250 V |
| Rated operational current to IEC 60947-5-1/AC15 | 4A/24V, 4A/48V, 3A/127V, 2,5A/240V | 4A/24V, 4A/48V, 3A/127V, 2,5A/240V | 4A/24V, 4A/48V, 3A/127V, 2,5A/240V | 4A/24V, 4A/48V, 3A/127V, 2,5A/240V | 4A/24V, 4A/48V, 3A/127V, 2,5A/240V | 4A/24V, 4A/48V, 3A/127V, 2,5A/240V |
| Rated operational current to IEC 60947-5-1/AC13 | 3A/24V, 1A/48V, 0,2A/127V, 0,1A/240V | 3A/24V, 1A/48V, 0,2A/127V, 0,1A/240V | 3A/24V, 1A/48V, 0,2A/127V, 0,1A/240V | 3A/24V, 1A/48V, 0,2A/127V, 0,1A/240V | 3A/24V, 1A/48V, 0,2A/127V, 0,1A/240V | 3A/24V, 1A/48V, 0,2A/127V, 0,1A/240V |
| Min. operational current AC/DC | 100 mA | 100 mA | 100 mA | 100 mA | 100 mA | 100 mA |
| Min_operational_voltage AC/DC | 20 V | 20 V | 20 V | 20 V | 20 V | 20 V |
| Connection | Faston lugs | Faston lugs | Faston lugs | Faston lugs | Faston lugs | Faston lugs |

Modulostar[®] CMS27 - UltraSafe[™] US27

For use with 27x60 fuse links. IP20

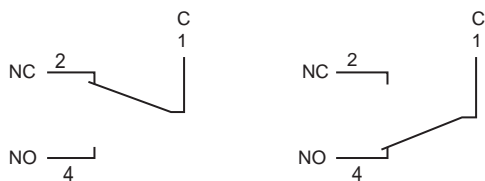
SPECIFIC USAGE CONDITIONS

| | | | | | |
|---------------------------|--------|------|------|------|------|
| Ambient temperature | > 20°C | 30°C | 40°C | 50°C | 60°C |
| Derating factor (I_e) | 1 | 0.95 | 0.9 | 0.8 | 0.7 |

| | | | |
|---|--------|--------|------|
| No of poles (side by side) | 1 to 3 | 4 to 6 | >= 7 |
| Derating factor of current (I_{th}) | 1 | 0.95 | 0.9 |

| | | |
|---|--------------------|--------------------|
| Nominal current of fuse-link gR | 100 A | 110 A |
| Max. operational current in fuse-holder | 96 A | 102 A |
| Cable wire section | 25 mm ² | 35 mm ² |

Auxiliary Microswitch



ACCESSORIES

Kit for multi-phase connection

| Catalog number | Item number | Design | Package | Weight |
|----------------|-------------|---|---------|--------|
| US27PAK | US27PAK | links for connection of multipole units | 10 | 3 g |

Auxiliary Switches

| Catalog number | Item number | Design | Package | Weight |
|----------------|-------------|-----------------|---------|--------|
| US27W1 | US27W1 | Microswitch kit | 1 | 20 g |

Wiring bars / Insulated bus bars

| Catalog number | Item number | Design | Package | Weight |
|----------------|-------------|---|---------|---------|
| RAILDINSY | J213172 | 35mm Mounting rail symmetric | 40 | 0.36 kg |
| RAILDINSYPERF | C213672 | 35mm Mounting rail symmetric drilled 1 pole | 40 | 0.33 kg |
| RAILDINSYRENFZ | R215203 | 35mm Mounting rail symmetric reinforced | 40 | 0.67 kg |

703, U705, U710

Open style fuse holders for use with 14x51 and 22x58mm fuses

Mersen semiconductor fuse holders feature open face styles. Each version is rated 750 volts and accommodates 14 x 51 mm or 22 x 58 mm fuses. 703, U705 and U710 holders feature Mersen's unique adder-block design which can be snapped onto 1-, 2-, or 3-pole blocks to form multi-pole segmented blocks of as many poles as desired. A choice of box, screw or pressure plate connectors is offered to fit a wide range of standard or solid copper wire. All versions have verified dielectric strengths in excess of 2500V. A patented built-in DIN-rail adapter on the U710 blocks adds further design versatility. All fuse clips are made of high conductivity tin-plated copper with spring reinforced clips.



HIGHLIGHTS:

- Thermoplastic bases
- DIN-rail (U710) or Screw Mount
- Adder block design

RECOMMENDED FOR USE WITH:

- 703 use with 14x51mm A70QS, A70P, URD
- U705 use with 14x51mm A70QS, A70P, URD
- U710 use with 22x58mm A70QS, URD, up to 100A

RATINGS:

- **Volts:** 750V
- **Amps:** 30A (703), 50A (U705), 100A (U710)
- **SCCR:** 200kA dependent on fuse IR

APPLICATIONS:

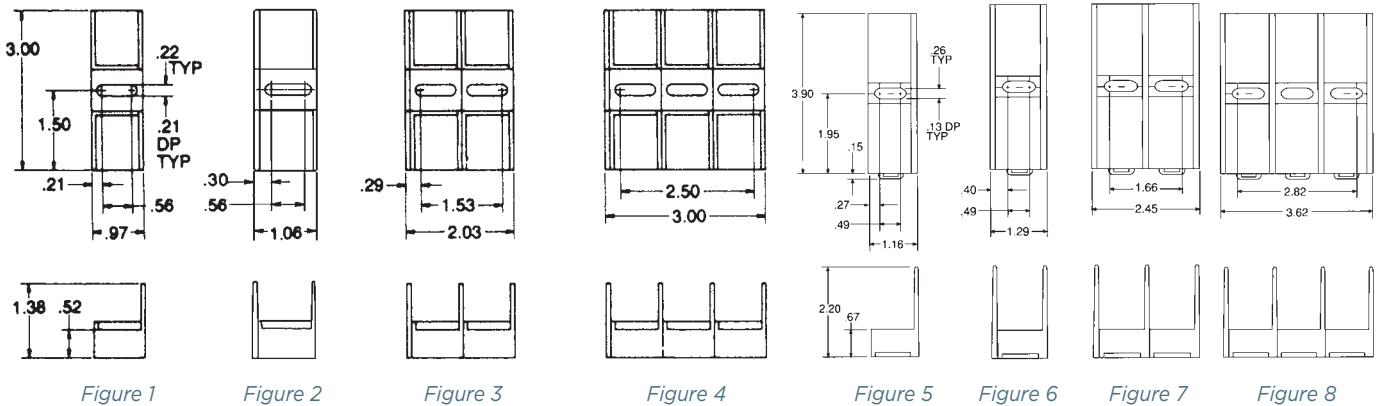
- All circuits up to 750 volts using high speed fuses for protection of small inverters, UPS systems, motor drives, etc.

APPROVALS:

- UL Recognized component guide IZLT2, File E52283
- CSA Certified class 6225, File 32169



DIMENSIONS:



703, U705, U710

Open style fuse holders for use with 14x51 and 22x58mm fuses

750 VOLT FUSE HOLDERS FOR 14 X 51 MM & 22 X 58 MM FUSES:

| Catalog No. | Fuse Size | Current Rating I _n (A) | Poles | Connector Type | Wire Range | Figure | Connector Torque (In-Lb) |
|-------------|-----------|-----------------------------------|-------|----------------|----------------|--------|--------------------------|
| U70505 | 14 x 51 | 50 | Adder | Box | Al/Cu #2-14 | 1 | 35 |
| U70506 | | | 1 | | | 2 | |
| U70507 | | | 2 | | | 3 | |
| U70508 | | | 3 | | | 4 | |
| 70315 | 14 x 51 | 30 | Adder | Screw | Cu #10-14 | 1 | 20 |
| 70316 | | | 1 | | | 2 | |
| 70317 | | | 2 | | | 3 | |
| 70318 | | | 3 | | | 4 | |
| 70325 | 14 x 51 | 30 | Adder | Pressure Plate | Cu #10-14 | 1 | 20 |
| 70326 | | | 1 | | | 2 | |
| 70327 | | | 2 | | | 3 | |
| 70328 | | | 3 | | | 4 | |
| 70355 | 14 x 51 | 30 | Adder | Box | Cu* #4-14 | 1 | 35 |
| 70356 | | | 1 | | | 2 | |
| 70357 | | | 2 | | | 3 | |
| 70358 | | | 3 | | | 4 | |
| U71005 | 22 x 58 | 100 | Adder | Box | Al/Cu #2-14 | 5 | 35 |
| U71006 | | | 1 | | | 6 | |
| U71007 | | | 2 | | | 7 | |
| U71008 | | | 3 | | | 8 | |

*Copper box connectors and clips-for copper wires only.

Note: To convert 30A adder pole to single pole, use end barrier #U09322 100A adder pole to single pole, use end barrier #U09372.

Recommended mounting screws; #10 (.190" dia)

Midget

600V Fuse Blocks

Mersen midget fuse blocks accommodate all 30 ampere 1-1/2" x 13/32" midget fuses. A choice of box, screw, or pressure-plate connectors fit a wide range of stranded or solid copper wire. Insulators are glass-filled polycarbonate (GFPC) with verified dielectric strength in excess of 2500V. Fuse blocks feature a unique adder block which can be snapped onto 1-, 2- or 3-pole blocks to form multi-pole segmented blocks of as many poles as desired. All fuse clips are made of high conductivity tin-plated copper alloy.



FEATURES/BENEFITS:

- Thermoplastic bases
- Adder block design

RECOMMENDED FOR USE WITH:

- **Midget Fuse Block** use with ATQ, ATM, A6Y-2B, A25Z-2, TRM, OTM, A15QS-2, GFN, GGU, A60Q-2, DCT

RATINGS:

Midget Block

- **Volts:** 600VAC / DC
- **Amps:** 30A Maximum
- **SCCR:** 100kA (depending on fuse IR); 10kA (when using quick connect terminal)

Temperature/flammability GFPC insulators rated 125°C, 94V-0 flammability.

APPLICATIONS:

- All circuits up to 600 volts using high speed fuses for protection of small inverters, UPS systems, motor drives, etc.

APPROVALS:

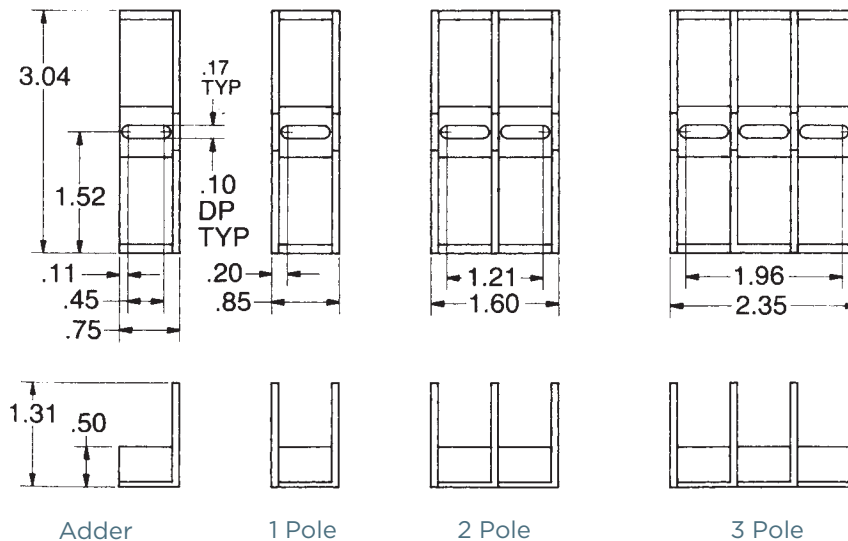
All fuse blocks meet the requirements of UL 4248

Midget Block

- UL Recognized Component guide IZLT2, File E52283
- CSA certified class 6225, File 32169



DIMENSIONS:



Midget

600V Fuse Blocks

600 VOLT, 30A MIDGET FUSE BLOCKS:

| Connector | | Poles* | Catalog No. | |
|---|--------------|--------|-------------|---------------------|
| Type | Wire Range | | Midget | Listing |
| Screw w/ double quick connects at both ends | Cu #10-14 | ADDER | 30310 | UL Rec. & CSA |
| | | 1 | 30311 | |
| | | 2 | 30312 | |
| | | 3 | 30313 | |
| | | 4 | 30314 | |
| Pressure plate (sems) w/double quick connects at both ends | Cu #10-14 | ADDER | 30320 | UL Rec. & CSA |
| | | 1 | 30321 | |
| | | 2 | 30322 | |
| | | 3 | 30323 | |
| | | 4 | 30324 | |
| Copper box | Cu #6-14 | ADDER | 30350 | UL Rec. & CSA |
| | | 1 | 30351 | |
| | | 2 | 30352 | |
| | | 3 | 30353 | |
| | | 4 | 30354 | |

Note: To convert Midget adder pole to single pole, use end barrier #U09301.





* Available in any number of poles. Replace last digit in Catalog Number with number of poles needed.

Example: 303112 is a 12-pole screw/double QC connector Midget Fuse Block.

Total width of N poles = (N x .76) + .08 inches. 12 poles = (12 x .76") + .08" = 9.20".

Recommended mounting screws for all Midget fuse blocks: #8 (.164" dia.)

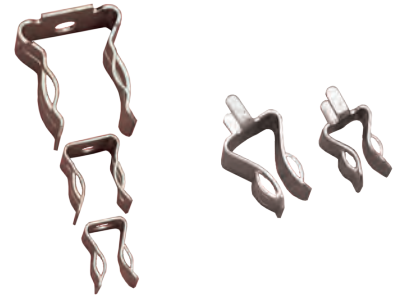
CLIP & CONNECTOR TYPES

| 30A MIDGET | | | |
|---|---|---|---|
| COPPER BOX CONNECTOR | SCREW WITH DOUBLE QUICK-CONNECTS | PRESSURE PLATE WITH DOUBLE QUICK-CONNECTS | PRESSURE PLATE WITH DOUBLE QUICK-CONNECTS (CLASS CC REJECTION END) |
|  |  |  |  |

Fuse Clips for UL Cylindrical Fuses

30A & 60A Ø sizes 3/16", 1/4", 13/32" - 5mm, 6.35mm, 10mm

Mersen offers an extensive offer of fuse clips. Clips are made out of spring brass with tin plated finish and match perfectly our selection of fuses. They are designed to mount easily, to save space and provide tight contact. Choose from a wide range of traditional and space-saving fuse blocks, fuse clips and fuse holders.



FEATURES/BENEFITS: RECOMMENDED FOR USE WITH:

- Tin-plated spring brass
 - Easy mounting
 - Space saving
 - Tight contact
 - Non-spring reinforced
- Ferrule Fuses

RATINGS:

- **Volts:** 600V
- **Amps:** 60A Maximum

APPLICATIONS:

- All circuits up to 600 volts using high speed fuses for protection of small inverters, UPS systems, motor drives, etc.

APPROVALS:

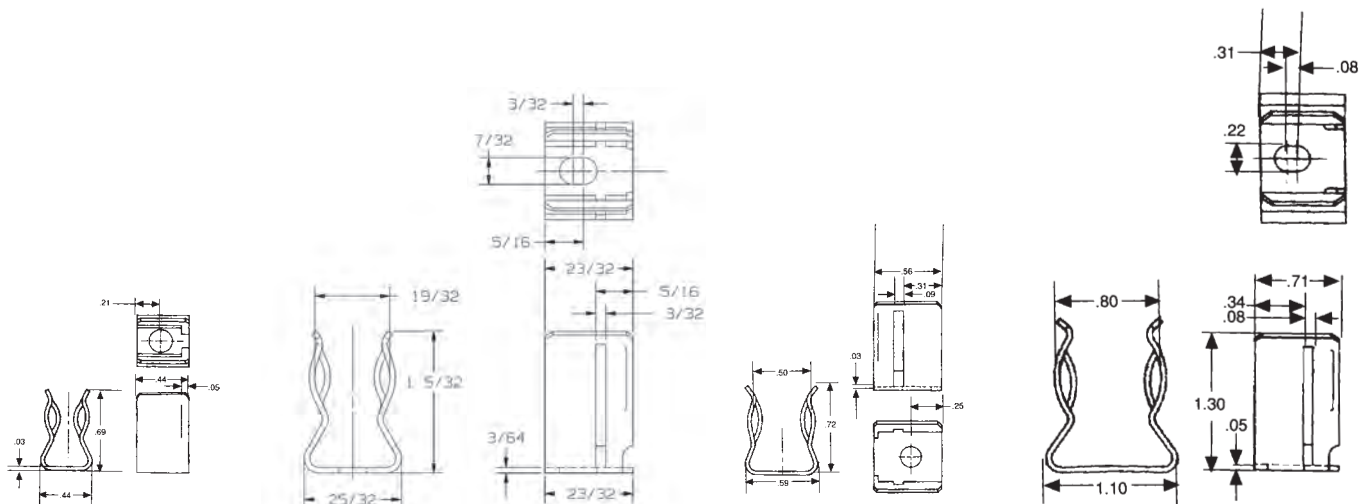
- UL Recognized guide IZLT2, File E52283



DIMENSIONS AND CATALOG NUMBERS:

| Cat. No. | For Fuse Rating/Size | | | Mounting Details | |
|----------|----------------------|-----------------------------------|--------------|------------------|------------|
| | Volts | Current Rating I _n (A) | Ferrule Dia. | Hole Size | Screw Size |
| C08915P | 600 | 30 | 13/32" | .72 dia. | #8 |
| C08919P | 600 | 30 | 13/32" | .196 dia. | #10 |
| C08916P | 250 | 30 | 9/16" | .172 dia. | #8 |
| C08917P | 250 | 60 | 13/16" | .22 X .30" | #10 |
| | 600 | 30 | 13/16" | .22 X .30" | #10 |
| C08918P | 600 | 60 | 1-1/16" | .22 X .30" | #10 |

All clips are tin-plated copper alloy, non-spring reinforced.



C08915P

C08919P

C08917P

C08916P

C08918P

Dimensions in inches

Fuse Clips for UL Cylindrical Fuses

30A & 60A Ø sizes 3/16", 1/4", 13/32" - 5mm, 6.35mm, 10mm

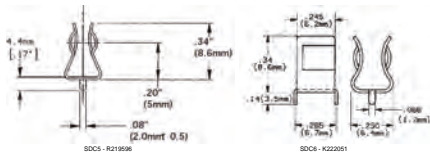
Fuse clips for 30 & 60 amps

| Catalog number | Reference number | For fuse rating - size | Mounting details: hole/screw size |
|----------------|------------------|------------------------|-----------------------------------|
| C08915P | R215479 | 30A - 13/32" | .172" dia. - #8 |
| C08916P | V215988 | 30A - 9/16" | .172" dia. - #8 |
| C08917P | R216491 | 30A or 60A - 13/16" | .22"x.30" - #10 |
| C08918P | F217010 | 60A - 13/16" | .22"x.30" - #10 |
| C08919P | P217524 | 30A - 13/32" | .196" dia. - #10 |

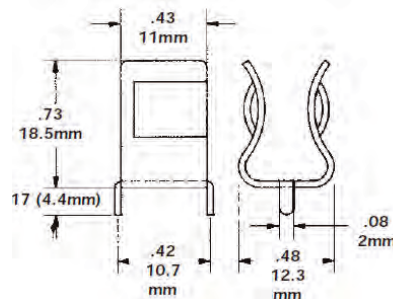
Fuse clips for PC Board

| Catalog number | Reference number | For fuse rating - size |
|----------------|------------------|------------------------|
| SDC5 | R219596 | 10A max - 13/64" |
| SDC6 | K222051 | 15A max - 1/4" |
| SDC7 | T222795 | 30A max - 13/32" |

DIMENSIONS

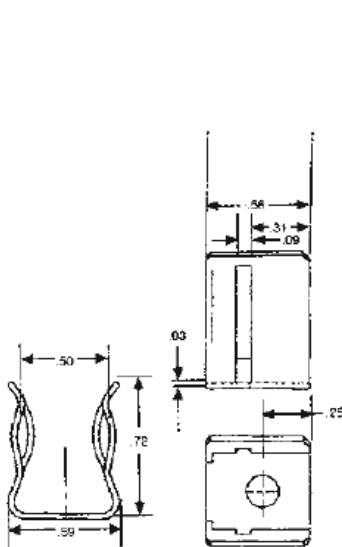


SDC5 - R219596 SDC6 - K222051

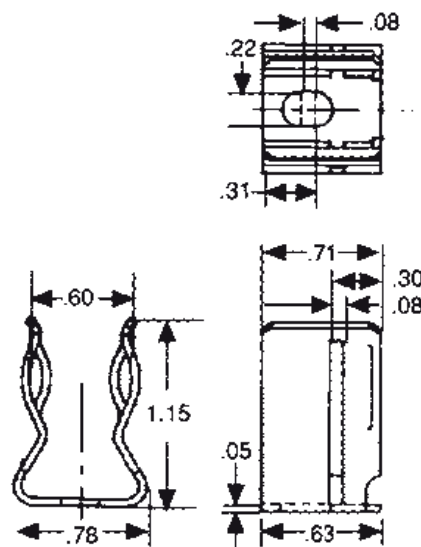


SDC7 - T222795

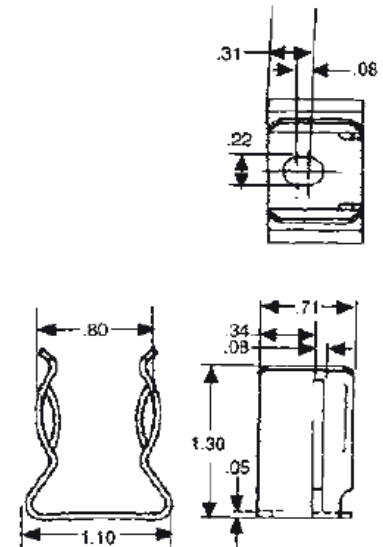
Dimensions in inches (mm)



V215988



R216491



F217010

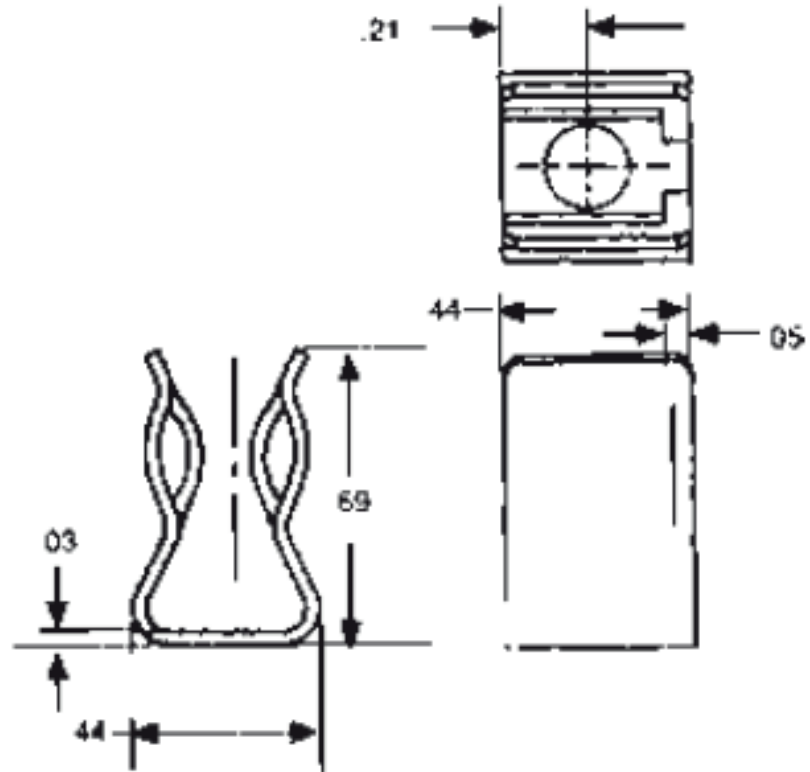
Dimensions in inches

Fuse Clips for UL Cylindrical Fuses

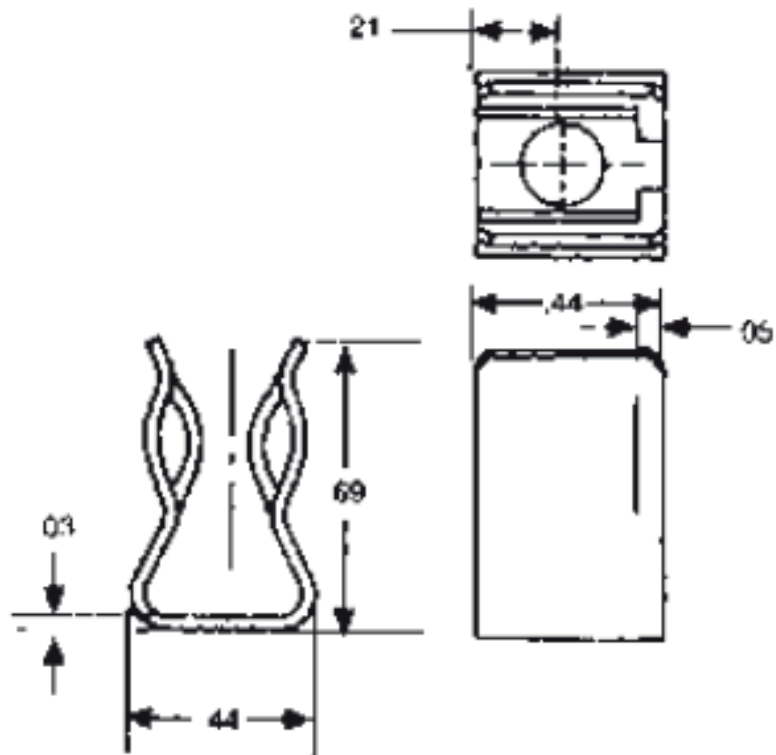
30A & 60A Ø sizes 3/16", 1/4", 13/32" - 5mm, 6.35mm, 10mm

DIMENSIONS

R215479



P217524



Fuse Clips for IEC Cylindrical Fuses

Ø sizes 10, 14, 20, 22, 27, 36, 45, 55

Mersen offers an extensive offer of fuse clips for low voltage and high voltage cylindrical fuses. They match perfectly our selection of fuses. They are designed to mount easily, to save space and provide tight contact. Choose from a wide range of traditional and space-saving fuse blocks, fuse clips and fuse holders.

FEATURES/BENEFITS: RECOMMENDED FOR USE WITH:

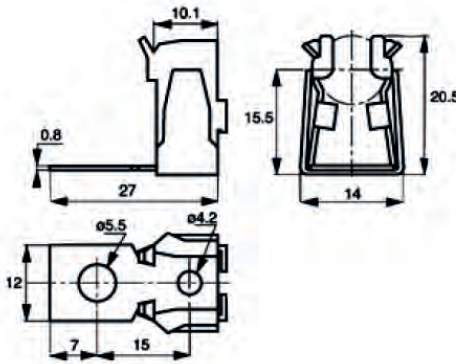
- Silver plated copper clips: extremely high thermal and electric conductivity (except nickel plated copper for MR20)
- Stainless steel pressure springs: highly resistant to salt spray
- Screwing on isolators mounting type
- Screwing on bars or insulated bars mounting type
- Welding on P.C.B. mounting type (MR 10 CI)

- Ferrule Fuses

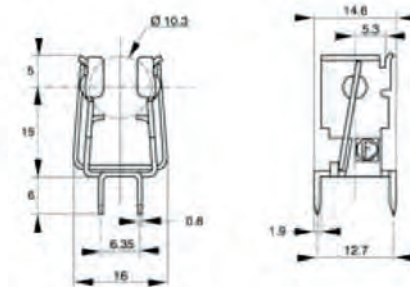


DIMENSIONS

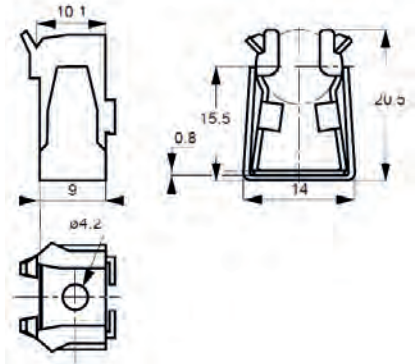
MR10RESSORT



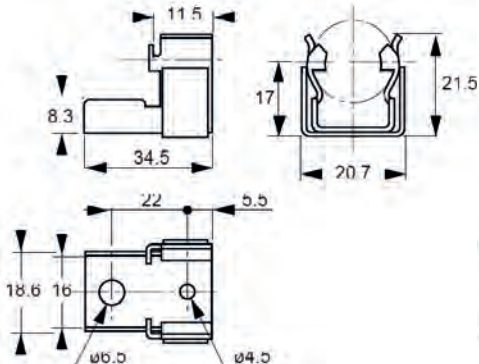
MR10CIRESSORT



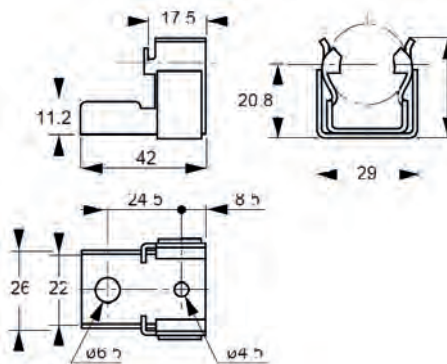
MR10RESSORTSP



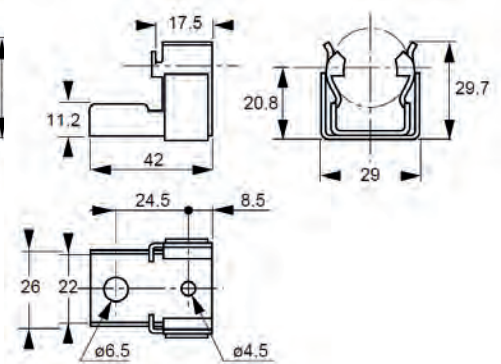
MR14SPRING



MR20.6RESSORT



MR22SPRING



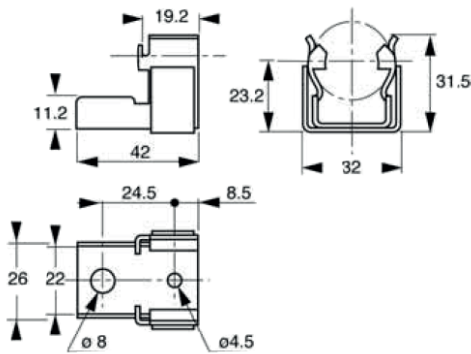
Dimensions in mm

Fuse Clips for IEC Cylindrical Fuses

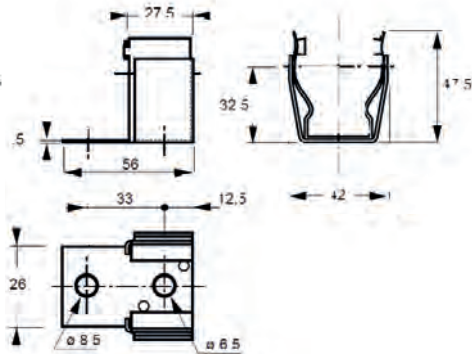
Ø sizes 10, 14, 20, 22, 27, 36, 45, 55

DIMENSIONS

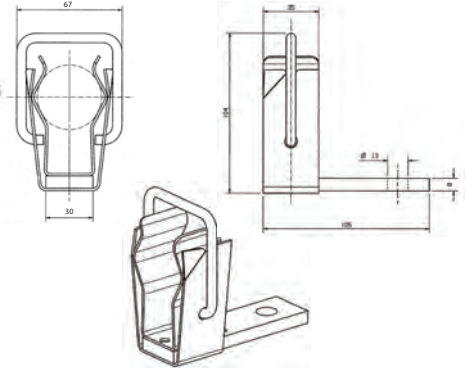
MR27RESSORT



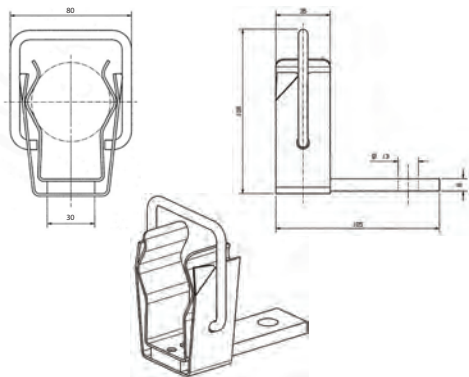
MR36R



MR45

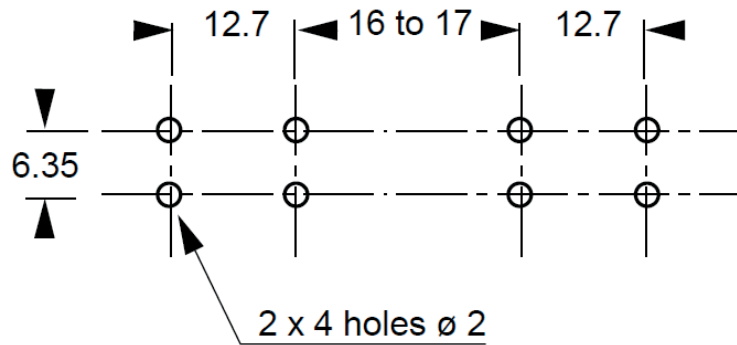


MR55

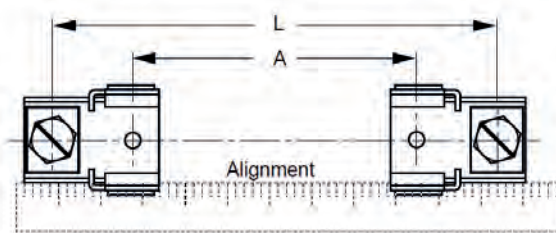


Mounting Instructions

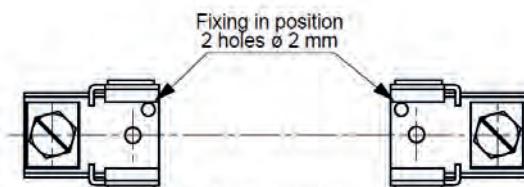
P.C.B. Drilling for MR10 CI clip (10x38 size fuse)



Clip Mounting



| Fuse size | A | L |
|-----------|-----|-----|
| 10 x 38 | 31 | 61 |
| 10 x 180 | 173 | 203 |
| 36 x 127 | 100 | 166 |
| 36 x 190 | 165 | 231 |
| 36 x 250 | 223 | 289 |
| 45 x 192 | 228 | 363 |
| 45 x 292 | 328 | 463 |
| 45 x 367 | 403 | 538 |
| 45 x 442 | 478 | 613 |
| 45 x 537 | 573 | 708 |
| 55 x 259 | 228 | 363 |
| 55 x 520 | 489 | 624 |



Dimensions in mm

Mounting of two elastic stop pins of 2 mm dia. for fixing clips in position

Fuse Clips for IEC Cylindrical Fuses

Ø sizes 10, 14, 20, 22, 27, 36, 45, 55

MR 10 and MR 10 CI

| Catalog number | Item number | Current Rating I_n (A) | Maximum RMS continuous current through IN rated current fuses | Recommended copper cable section | Package | Weight |
|----------------|-------------|--------------------------|---|----------------------------------|---------|--------|
| MR10RESSORT | B098004 | 32 | 32 A | 6 mm ² | 20 | 7 g |
| MR10CIRESSORT | Y098507 | 32 | 32 A | 6 mm ² | 1000 | 4.5 g |
| MR10RESSORTSP | C098994 | 32 | 32 A | 6 mm ² | 20 | 5.7 g |

MR 14

| Catalog number | Item number | Current Rating I_n (A) | Maximum RMS continuous current through IN rated current fuses | Recommended copper cable section | Package | Weight |
|----------------|-------------|--------------------------|---|----------------------------------|---------|--------|
| MR14SPRING | G098170 | 63 | 63 A | 10 mm ² | 10 | 16 g |

MR 20

| Catalog number | Item number | Current Rating I_n (A) | Maximum RMS continuous current through IN rated current fuses | Recommended copper cable section | Package | Weight |
|----------------|-------------|--------------------------|---|----------------------------------|---------|--------|
| MR20RESSORT | H099988 | 125 | 125 A | 35 mm ² | 20 | 40 g |

MR 22

| Catalog number | Item number | Current Rating I_n (A) | Maximum RMS continuous current through IN rated current fuses | Recommended copper cable section | Package | Weight |
|----------------|-------------|--------------------------|---|----------------------------------|---------|--------|
| MR22SPRING | K098909 | 135 | 135 A | 35 mm ² | 20 | 40 g |

MR 27

| Catalog number | Item number | Current Rating I_n (A) | Maximum RMS continuous current through IN rated current fuses | Recommended copper cable section | Package | Weight |
|----------------|-------------|--------------------------|---|----------------------------------|---------|--------|
| MR27RESSORT | Y092734 | 250 | 250 A | 120 mm ² | 20 | 50 g |

MR 36

| Catalog number | Item number | Current Rating I_n (A) | Maximum RMS continuous current through IN rated current fuses | Recommended copper cable section | Package | Weight |
|----------------|-------------|--------------------------|---|----------------------------------|---------|--------|
| MR36R | M091275 | 250 | 250 A | 120 mm ² | 1 | 85 g |

MR 45

| Catalog number | Item number | Current Rating I_n (A) | Maximum RMS continuous current through IN rated current fuses | Recommended copper cable section | Package | Weight |
|----------------|-------------|--------------------------|---|----------------------------------|---------|---------|
| MR45R | L096472 | 315 | 315 A | 185 mm ² | 1 | 0.44 kg |
| MR45SPL | S210236 | 315 | 315 A | 185 mm ² | 1 | 0.23 kg |

MR 55

| Catalog number | Item number | Current Rating I_n (A) | Maximum RMS continuous current through IN rated current fuses | Recommended copper cable section | Package | Weight |
|----------------|-------------|--------------------------|---|----------------------------------|---------|---------|
| MR55R | L078969 | 315 | 315 A | 185 mm ² | 1 | 0.45 kg |

AC & DC Square Body Fuse Bases

Bases for PSC ranges: SI TT, SI 000/00, SI DIN

These fuse bases are to be used with blade and bracket-type fuses as per DIN 43653 standard:

- Sizes 000 - 00, 80 mm between axes
- Sizes 0 - 1 - 2 - 3, 80 and 110 mm between axes

FEATURES/BENEFITS: RECOMMENDED FOR USE WITH:

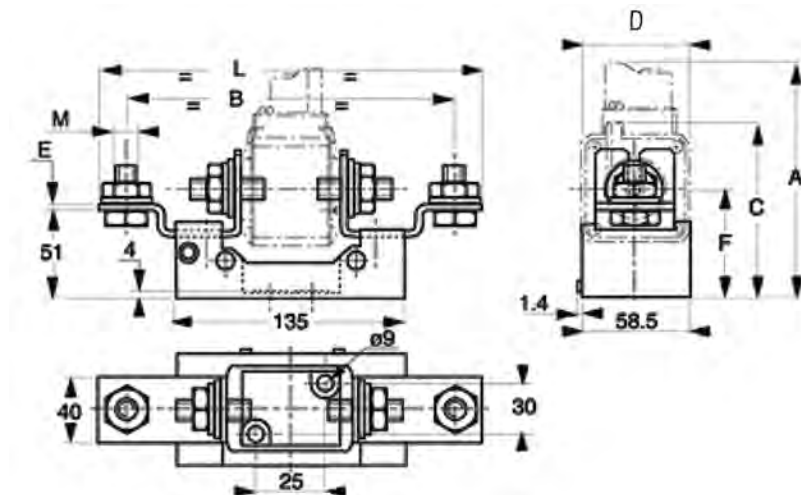
- Mounting in one-pole fuse holder simplifies fuse replacement for installations connected with cable and bars
- Finger safe version available
- For TTF stud-type fuses
- For TTF version, studs are delivered with the fuse holder

DIMENSIONS:

Standard Version SI Fuse Holders: SI TT

| Designation | A | B | C | D | E | G | L | M | F | Catalog No. |
|-------------|---------|-----|----------|--------|---|------|-----|----------|----|-------------|
| SI TT 30/31 | 118(30) | 170 | 83 (30) | 42(30) | 4 | 50.6 | 202 | M8 | 57 | |
| | 123(31) | | 88 (31) | 51(31) | | | | | | |
| SI TT 70/71 | 118(70) | 193 | 83 (70) | 42(70) | 4 | 74 | 225 | M8 | 67 | |
| | 123(71) | | 88 (71) | 51(71) | | | | | | |
| SI TT 32/33 | 137(32) | 170 | 93 (32) | 60(32) | 6 | 50.6 | 202 | M10 (32) | 57 | |
| | 145(33) | | 109 (33) | 75(33) | | | | M12 (33) | | |
| SI TT 72/73 | 137(72) | 193 | 93 (72) | 60(72) | 6 | 71 | 225 | M10 (32) | 67 | |
| | 145(73) | | 109 (73) | 75(73) | | | | M12 (33) | | |

Partition mounting not possible. Panel drilling: 25x30 mm



AC & DC Square Body Fuse Bases

Bases for PSC ranges: SI TT, SI 000/00, SI DIN

DIMENSIONS:

Standard Version SI Fuse Holders: SI 00 DIN 80 and SI 000 DIN 80

| Designation | A | B | C | D | E | G | L | Fuse Sizes | Catalog No. |
|---------------|-----|-----|----|----|------|----|-----|---------------------------|-------------|
| SI 000 DIN 80 | 100 | 80 | 80 | 19 | 25 | 80 | 100 | 000-17x49-27x60 DIN 80 | |
| SI 00 DIN 80 | 133 | 130 | | | 46.5 | 79 | 148 | 00-27x60 DIN 80 | |

Partition mounting only for SI 00 DIN 80

* Electrical connection of fuse and fuse holder via supplied studs, nuts and washers

Maximum recommended tightening torque: Nm for M8 screws.

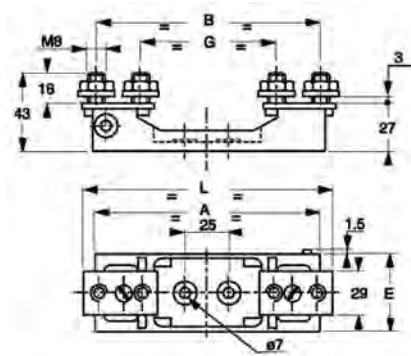
26 Nm for M10 screws.

46 Nm for M12 screws.

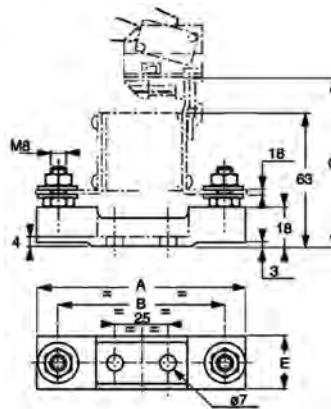
- Fixing of base on plate or bar via screws not supplied.

M6 for SI 000 and SI 00 Tightening torque 7 ± 1.5 Nm. M8 for SI TT Tightening torque 10 ± 2 Nm.

SI 00 DIN 80

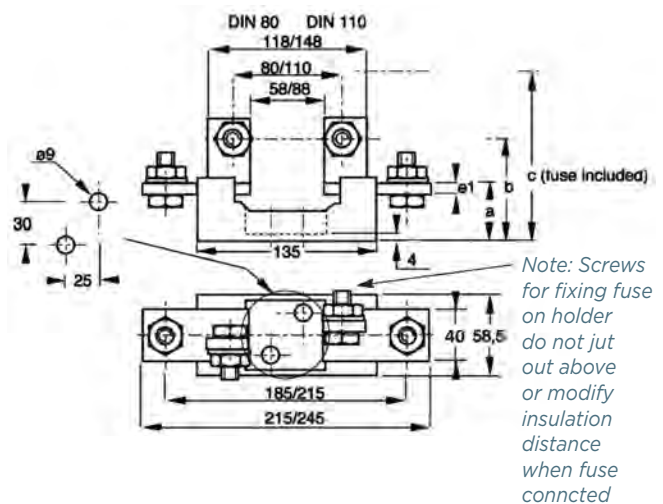


SI 000 DIN 80



Standard Version SI Fuse Holders: SI DIN 80-110

| Designation | a | e1 | b | c | Fuse Sizes | Catalog No. |
|------------------|----|----|----|-------|------------|-------------|
| SI DIN 80 630 | 40 | 5 | 68 | 93.5 | 30 D08 | |
| | | | | 99.0 | 31 D08 | |
| | | | | 103.5 | 32 D08 | |
| | | | | 110.3 | 33 D08 | |
| SI DIN 110 630 | 40 | 5 | 68 | 93.5 | 30-70 D11 | |
| | | | | 99.0 | 31-71 D11 | |
| | | | | 103.5 | 32-72 D11 | |
| | | | | 110.3 | 33-73 D11 | |
| SI DIN 80 1 250 | 45 | 10 | 73 | 98.5 | 30 D08 | |
| | | | | 104 | 31 D08 | |
| | | | | 108.5 | 32 D08 | |
| | | | | 115.3 | 33 D08 | |
| SI DIN 110 1 250 | 45 | 10 | 73 | 98.5 | 30-70 D11 | |
| | | | | 104 | 31-71 D11 | |
| | | | | 108.5 | 32-72 D11 | |
| | | | | 115.3 | 33-73 D11 | |



Partition mounting impossible

* Electrical connection of fuse and wires by M10x30 screws made in plated steel minimum 8-8 class.

Screws included. Maximum recommended tightening torque: 44 Nm for M10 screw.

- Fixing of base with screws not supplied: M8. Tightening torque 10 ± 2 Nm.

AC & DC Square Body Fuse Bases

Bases for PSC ranges: SI TT, SI 000/00, SI DIN

REFERENCE AND CATALOG NUMBERS:

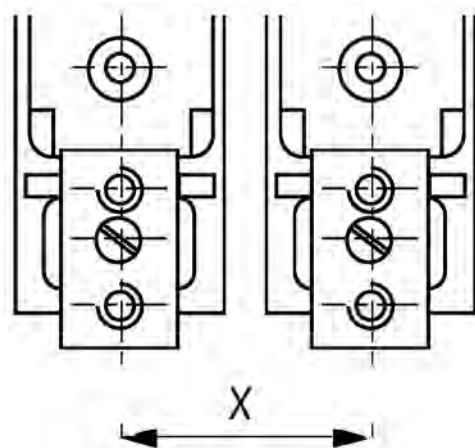
Standard Version SI Fuse Holders

| Designation | Ref. Number | Weight [g] | Packaging | Catalog Number |
|-----------------|-------------|------------|-----------|----------------|
| SI TT 30/31 | B 301232 | 1 960 | 1 | SITT30/31 |
| SI TT 70/71 | C 301233 | 1 960 | 1 | SITT70/71 |
| SI TT 32/33 | D 301234 | 2 900 | 1 | SITT32/33 |
| SI TT 72/73 | E 301235 | 2 900 | 1 | SITT72/73 |
| SI 000 DIN 80 | C 220710 | 90 | 12 | SI000DN80 |
| SI 00 DIN 80 | Q 098040 | 205 | 3 | SI00DN80 |
| C - CLO* | M 091344 | 37 | 2 | CLO |
| SI DIN 80 630 | L 098772 | 625 | 1 | SIDN80630A |
| SI DIN 110 630 | F 098031 | 625 | 1 | SIDN110630A |
| SI DIN 80 1250 | F 098560 | 885 | 1 | SIDN801250A |
| SI DIN 110 1250 | L 091941 | 885 | 1 | SIDN1101250A |

* Necessary for SI 00 DIN 80 one-pole mounting.

DISTANCE "X" BETWEEN POLES AXES (WITHOUT PARTITION):

| Designation | Fuse Sizes | Operating Voltage U | | | | |
|------------------------|-------------|---------------------|-------|-------|--------|--------|
| | | 400 V | 500 V | 690 V | 1000 V | 1250 V |
| SI TT 30/31 | 30-31 | 58.5 | 61 | 65 | 71 | 76 |
| SI TT 70/71 | 70-71 | | | | | |
| SI TT 32/33 | 32-33 | 79.5 | 84.5 | 88.5 | 94.5 | 99.5 |
| SI TT 72/73 | 72-73 | | | | | |
| SI 000 DIN 80 | 000 | 25 | 35 | 39 | 45 | 50 |
| SI 00 DIN 80 | 00 | 46.5 | 46.5 | 46.5 | 50 | 55 |
| SI DIN 80 630 630-1250 | 30-31 | 58.5 | 61 | 65 | 71 | 76 |
| | 70-71 | 79.5 | 84.5 | 88.5 | 94.5 | 99.5 |
| SI DIN 110 630-1250 | 30-31-70-71 | 58.5 | 61 | 65 | 71 | 76 |
| | 32-33-72-73 | 79.5 | 84.5 | 88.5 | 94.5 | 99.5 |



Blown Fuse Indicators

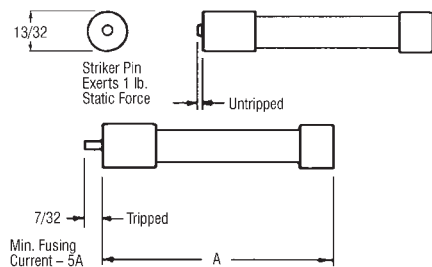
TRIGGER® INDICATOR

The Trigger Indicator (catalog number suffix TI) is available on many blade type fuses, primarily Form 101 high speed fuses and some Class L fuses. The TI allows blown fuses to be identified visually, eliminating the need for resistance or continuity testing.



SHAWMUT TRIGGER®

The Shawmut Trigger Indicator is a field-mountable blown-fuse indicator which is wired in parallel with the fuse to be monitored. The striker pin exerts a static force of one pound and may be used to actuate a switch. It is available in 130 volt (TI-130), 600 volt (TI-600), and 1500 volt (TI-1500) ratings. The TI-600 Trigger is a UL Listed accessory. The Shawmut Trigger is not a fuse and should only be used in parallel with fuses rated 70A or higher. To mount the Trigger, use two midget fuse clips (for 13/32" diameter fuses) found in the Fuse Clip section.

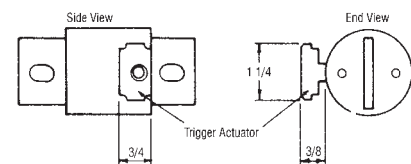


CATALOG NUMBERS

| Cat No. | Volts | Length A-In. |
|---------|--------|--------------|
| TI-130 | 0-130 | 2 |
| TI-600 | 0-600 | 2 |
| TI-1500 | 0-1500 | 3-1/2 |

TRIGGER® ACTUATOR

The Trigger Actuator (catalog number suffix TA) has two functions and is an option available on many Amp-Trap® fuses. First, it provides visual indication of an open fuse and second, it provides a mount for an Add-On-Switch (AOS-) which can indicate a blown fuse via a signal light or initiate appropriate control action. The Trigger Actuator has no measurable I²t or arc voltage effect on fuses rated 65A or higher. It will add 2 to 5 amperes of long term rating and requires a minimum circuit voltage of 5 to 10 volts to activate.



Blown Fuse Indicators

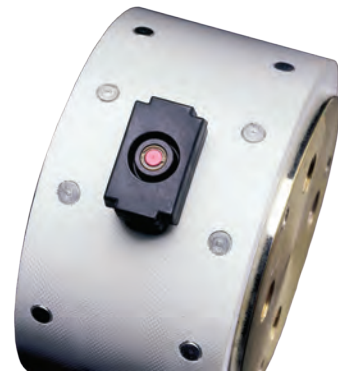
ADD-ON SWITCH

Add-On-Switches contain one single-pole double-throw contact rated 4 amperes resistive and 1 ampere inductive at 250V AC maximum. Two versions of the Add-On-Switch are available. Catalog number AOS-S has screw terminals. Catalog number AOS-Q accommodates push-on connectors.



IL INDICATOR

The "IL" indicator, developed from proven designs, provides a blown fuse indication system which does not sacrifice the excellent I²t characteristics of Mersen fuses. Its low voltage design requires just 0.9 volts to activate the indicator, thus insuring reliable fuse performance under all conditions. The red pop up button is located in the center of the fuse body for ease of visibility and optimum voltage isolation. Interference with busbar and cable connection is significantly less than other designs. The addition of the "IL" indicator provides blown fuse indication on virtually all Mersen fuses. Optional auxiliary microswitches for remote signaling are also available for use with the "IL" indicator.



FEATURES/BENEFITS:

- Visual indication or remote signaling
- Optional auxiliary microswitches
- Same size for all fuses
- Retains optimum performance
- Operation at all times above 0.9 volts

HIGHLIGHTS:

- Low voltage design
- Center location
- Rugged construction
- Proven reliability
- AC or DC

For blown fuse indication on general purpose fuses, please consult factory.

APPROVALS:

- UL Recognized



Square Body Fuse Microswitches and Studs

Microswitch systems adapted to the following fuses:

- PSC sizes 30, 31, 32, 33 / 70, 71, 72, 73
- Blade-type PSC (PA) sizes 0-1, 2-3 / 70, 71, 72, 73
- PSC sizes 000 / 00



MS 3V FUSE SIZES: 30 - 33

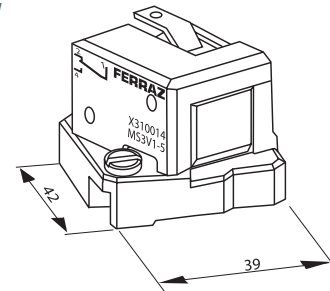
| Fuse Size | Description | Ref. No. | Indication Style | Weight (g) |
|------------------|----------------------|----------|------------------|------------|
| 30, 31 32, 33 | MS 3V 1-5 (fig.1) | X310014 | Standard NO-NC | 34 |
| | MS 3V 1-5 BS (3) | W310013 | Low Level NO-NC | 34 |
| | MS 3V 1-9 BS (4) | T310011 | Low Level NO-NC | 44 |
| | MS 3V 1-5 ET (fig.3) | R310009 | Low Level NO-NC | 34 |

(3) Same as fig. 1

(4) Same dimensions as fig. 1 but with 2 microswitches side by side

(9) Watertightness class

Fig. 1



MS 7V1 FUSE SIZES: 70 - 73

| Fuse Size | Description | Ref. No. | Indication Style | Weight (g) |
|------------------|----------------------|----------|--------------------------------|------------|
| 70, 71 72, 73 | MS 7V 1-5 (fig.4) | J310002 | Standard NO-NC | 45 |
| | MS 7V 1-5 BS (7) | K310003 | Low level NO-NC | 45 |
| | MS 7V 1-9 BS (8) | P310007 | Double pole NO-NC Low level | 55 |
| | MS 7V 1-5 ET (fig.5) | S310010 | Low level NO-NC | 55 |

(7) Same as fig. 4

(8) Same dimensions as fig. 4 but with 2 microswitches side by side

(9) Watertightness class

Attention: Microswitch systems exclusively designed for Mersen PSC fuses are fitted with a patented trip-indicator, saving the use of an EDV.

Fig. 2

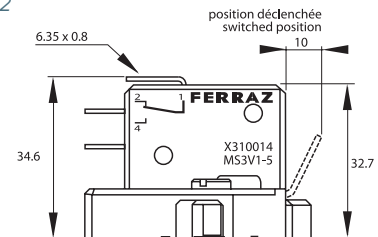
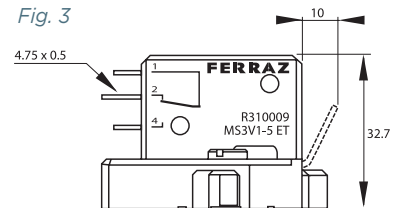


Fig. 3



STANDARD THREADED STUDS

| Size | Reference No. Per Pair | Ref. and Dimension Per Pair of Studs | Weight (g) | Max Stud Mounting Torque (Nm)* | Max Nut Tightening Torque (Nm)* | | |
|---------|------------------------|--------------------------------------|------------|--------------------------------|---------------------------------|--------|--------|
| | | | | | Fig. 1 | Fig. 2 | Fig. 3 |
| 70 & 71 | S098801 | HC M8 X 30 & M 8 X 35 | 23 | 13 | 13.5 | 13.5 | 13.5 |
| 72 | T098802 | HC M 10 X 30 & M 10 X 50 | 40 | 15 | 26 | 26 | 26 |
| 73 | V098803 | HC M 12 X 35 & M 12 X 50 | 60 | | 46 | 46 | 15 |
| 2X72 | W098804 | HC M 10 X 50 | 50 | | 26 | 26 | 26 |
| 2X73 | X098805 | HC M 12 X 50 | 70 | | 46 | 46 | 15 |

Packaging: 6 pairs

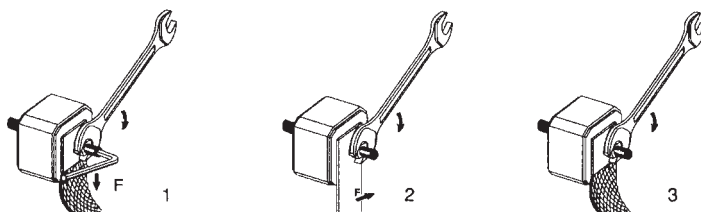


Fig. 4

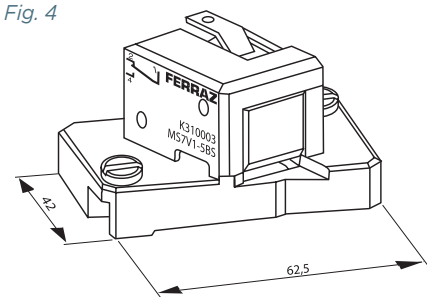
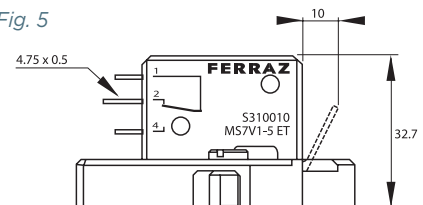


Fig. 5

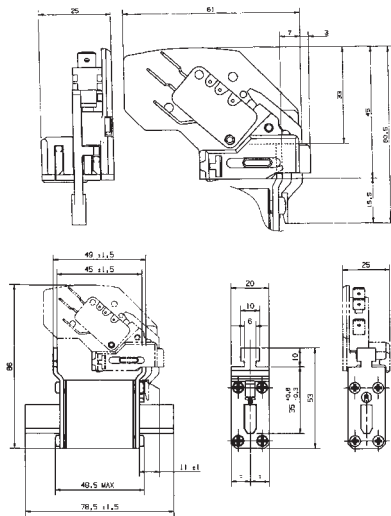


Square Body Fuse Microswitches and Studs

MS INDICATION SYSTEM FOR 000 & 00 FUSES AS PER DIN 43653 AND DIN 43620 TERMINALS

Automatically resettable, these microswitch systems indicate fuse presence (PRES) and proper mounting. In case of improper mounting or fuse melting, terminals 1-4 closed.

| Catalog Number | Reference No. | Weight [g] |
|----------------------------------|---------------|------------|
| MS 4L 2-5 B6 + PRES (fig. 1) (1) | F210156 | 30 |
| MS 4L 2-5 B2 + PRES (fig. 2) (2) | G210157 | 26 |



(1) 6.3mm Clips

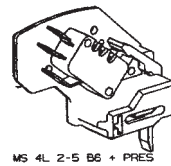


Fig. 1

(2) 2.8mm Clips

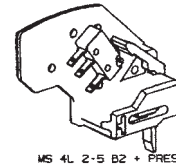
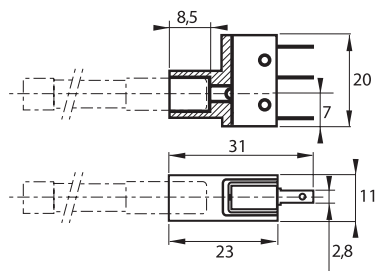
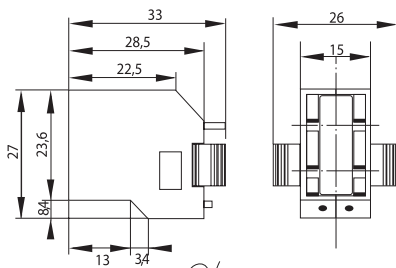


Fig. 2

MC INDICATION SYSTEM FOR BS 88-4 BLOWN FUSE TRIP-INDICATOR



| Catalog Number | Reference No. | Weight [g] |
|--|---------------|------------|
| MC 6,3 GR 2-5 N with external trip-indicator | Y310015 | 10 |



| Catalog Number | Reference No. | Weight [g] |
|---|---------------|------------|
| MC 36 GR 2-5 for British standard fuses with internal indicator 27 and 36 | P092496 | 10 |

Protistor® Fuse Microswitches

Microswitch systems for round and square-body fuses (not for PSC fuses)

The Protistor fuse microswitch is a remote signaling system designed to fit on round and square body Protistor fuses (not for PSC fuses) that are equipped with microswitch support. It indicates fuse status and has a manual reset feature.

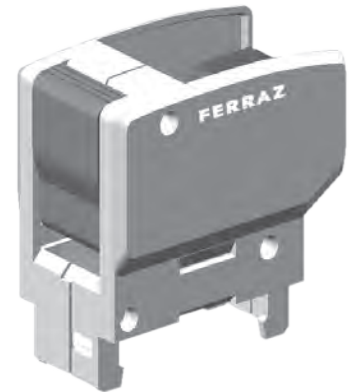
FEATURES/BENEFITS:

- Remote signaling systems for fitting on Mersen fuses equipped with microswitch support
- Indication of fuse status
- Manual reset
- Standard and low current models with different insulation ratings
- Watertight types for use in corrosive atmospheres

NOTE (2): The 26.4 dimension is the same with 1 or 2 separated circuits NO-NC.
Tests with sine vibrations carried out at ambient with scanning of the three main holder axes.

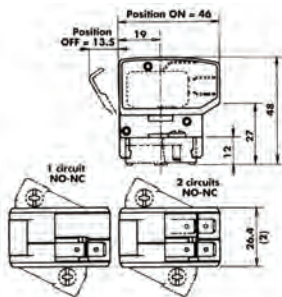
Spectrum: 1st segment (2 to 16 Hz) constant trip $x = 5$ mm peak.
2nd segment (16 to 250 Hz) constant acceleration $y + 5$ g peak

Exponential scanning speed: 1 octave per min.
Duration: 2 hours per axis.



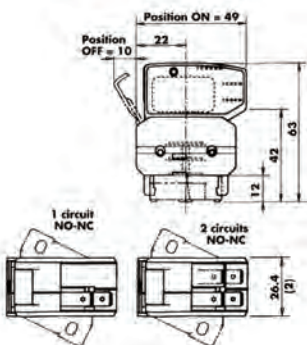
DIMENSIONS:

Remote Signaling with 1250VAC/DC Insulation Voltage



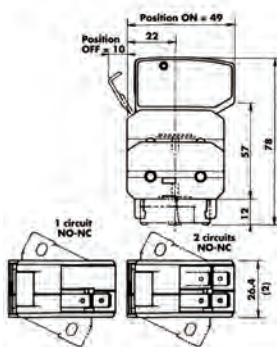
| Quantity of NO-NC separated circuits | Contact | Catalog Number | Ref. Number | Weight [g] | Pack. (1) |
|--------------------------------------|------------|----------------|-------------|------------|-----------|
| 1 | standard | MC3E 1-5N | D310020 | 39.5 | 3 |
| 1 | low level | MC3E 1-5NBS | E310021 | 39.5 | 3 |
| 2 | low level | MC3E 1-9NBS | F310022 | 45.7 | 3 |
| 1 | watertight | MC3E 1-5NET | L310027 | 40.2 | 3 |

Remote Signaling with Insulation Voltage up to 2200VAC/DC



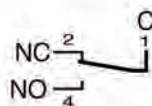
| Quantity of NO-NC separated circuits | Contact | Catalog Number | Ref. Number | Weight [g] | Pack. (1) |
|--------------------------------------|------------|----------------|-------------|------------|-----------|
| 1 | standard | MCR3E 1-5N | G310023 | 51.7 | 1 |
| 1 | low level | MCR3E 1-5NBS | P310030 | 51.7 | 1 |
| 2 | low level | MCR3E 1-9NBS | H310024 | 58.0 | 1 |
| 1 | watertight | MCR3E 1-5NET | Q310031 | 52.5 | 1 |

Remote Signaling with Insulation Voltage up to 6000VAC/DC

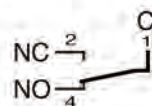


| Quantity of NO-NC separated circuits | Contact | Catalog Number | Ref. Number | Weight [g] | Pack. (1) |
|--------------------------------------|------------|----------------|-------------|------------|-----------|
| 1 | low level | MC2R3E 1-5NBS | J310025 | 64.0 | 1 |
| 1 | watertight | MC2R3E 1-5NET | N310029 | 64.8 | 1 |
| 2 | low level | MC2R3E 1-9NBS | K310026 | 70.3 | 1 |

Electrical diagram of each microswitch circuit



Non-blown fuse
Microswitch ON



Blown fuse
Microswitch OFF

All of these signaling systems are resettable and fitted with silver-plated 3-terminal microswitch C, NO and NC. The C terminal is on the top and connection is made via 6.35 mm clips except for watertight models whose clips are 4.8 mm wide



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