

# **Product Catalog**

Power Blocks, Terminal Blocks, Fuse Holders, Custom Products





A Regal Brand

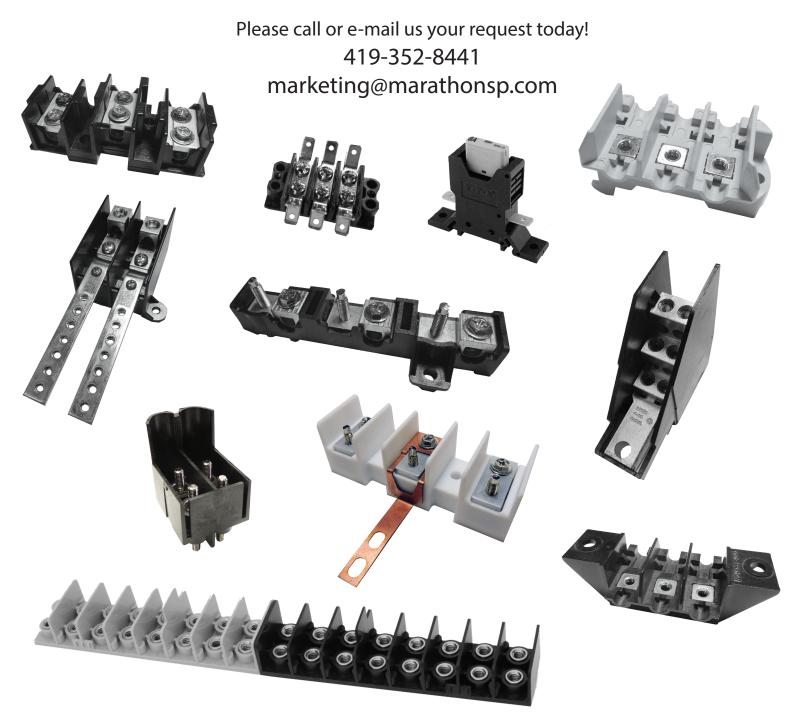




Developing CUSTOM PRODUCTS is why "Special" is LITERALLY our middle name. Marathon Special Products' core value is to provide quality solutions to meet our customers' needs. We have the engineering and manufacturing capabilities to provide:

- · Special hardware configurations to terminal blocks
- · Special power block designs
- Special fuse holder designs
- Special terminal block designs for any application
- Special ratings that aren't available

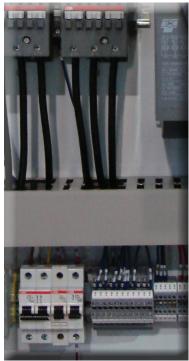
Our product development team can quickly respond to your requests with the use of 3D modeling, finite element analysis, rapid prototyping and a UL approved test lab to accelerate the performance verification process for any testing requirements.

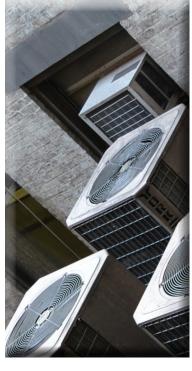


# marathon™ ——Special Products









	Page #
General Info	1
Power Blocks	
Bulk Fastening	5
Mini Bulk Fastening	6
• Enclosed	7
<ul> <li>High Voltage</li> </ul>	
<ul> <li>Splicer/Distribution</li> </ul>	
<ul> <li>Stud Configurations</li> </ul>	
Misc Configurations	20
Specialty Terminal Blocks	
Feed Thru Stud	25
Single Stud Junctions	
Motor Blocks	
<ul> <li>Grounding Connectors/Lugs</li> </ul>	
3	
Heavy Duty Terminal Blocks	
Deadfront Type	33
Barrier Type	37
Barrier Terminal Blocks	
Double Row	40
Single Row	57
Accessories	67
Military Terminal Blocks	
Military Class	
Navy Class	84
Sectional Terminal Blocks	
NEMA (Barrier)	88
• DIN Rail	
Fuse Holders	
• PV10BW	98
<ul> <li>Midget &amp; Classes CC, J, H, R, T, &amp; G</li> </ul>	99
<ul> <li>General Purpose/Semi-conductor</li> </ul>	112
Accessories	116
Terms & Conditions	
Warnings	120

**Table of Contents** 



## **General Information**

## **Agency Approvals:**

The majority of products manufactured by Marathon Special Products are Underwriters Laboratories and Canadian Standards Association approved.

The approval status of products can be found throughout the catalog. Below are the different approval forms and brief descriptions.



Listed products by Underwriters Laboratories have been evaluated to U.S. safety requirements. These products are qualified for use in equipment without end-use agency approval when applied within the product's rated performance.



Listed products by Underwriters Laboratories have been evaluated to both U.S. and Canadian safety requirements. These products are qualified for use in equipment without end-use agency approval when applied within the product's rated performance.



Recognized products by Underwriters Laboratories have been evaluated to U.S. safety requirements. These products are components of a larger product or system and have guidelines addressing the suitability when used in an end product.



Recognized products by Underwriters Laboratories have been evaluated to U.S. and Canadian safety requirements. These products are components of a larger product or system and have quidelines addressing the suitability when used in an end product.



Certified by Canadian Standards Association, suitable for use in other equipment where Canadian Standards Association determines the suitability of the combination.

 $\epsilon$ 

Compliance with European Union Low Voltage Directive.

### **Tightening Torque:**

Specified tightening torque is listed for all products, either on the carton label or the product label. All torque specifications are based on UL 486. In some cases, because of various connector designs, our specified torque is different from the torque tables shown in UL 486.

## Wire Ampacity:

The ampacity of a wire is its current carrying capacity with reference to the cross sectional area of the conductor(s), the temperature rating of the insulation and ambient temperature.

Marathon specified wire ranges are based on UL approved tests using 75°C wire. Wires with temperature ratings other than 75°C are approved while observing NEC Article 310 wire tables for allowable ampacities of insulated conductors. Marathon voltage and amperage ratings remain constant and are independent of the temperature rating of the wire used in application. Wire gauges and type must remain within the Marathon specified ranges to be UL approved. However, UL approval for higher currents may be obtained in some end-use applications.



2

## **General Information**

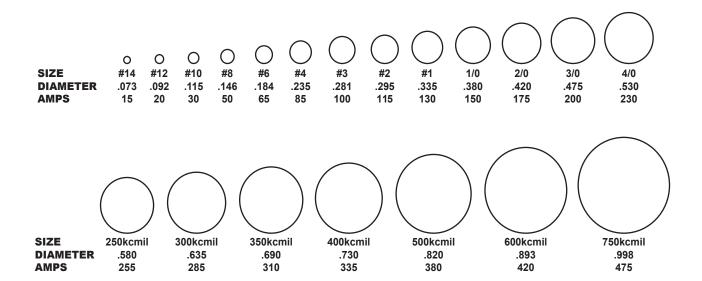
## **Tolerances for Catalog Dimensions:**

Length Dimensions	Tolerance	All Other Dimensions	Tolerance
1.0" - 5.0"	±.030	X.X"	± .030
5.1" - 10.0"	± .050	X.XX"	± .020
10.1" - 15.0"	± .060	X.XXX"	± .010

Note: Catalog Dimensions are for guidance only and are not to be construed as inspection standards.

This catalog is intended to present product data that will help the end user with design application. Marathon Special Products reserves the right to change or update without notice. Please visit www.marathonsp.com for the most up-to-date product information.

Wire Chart - based on UL Class B/C stranded wire (also known as code wire or rigid stranded wire).



## **SCCR Information:**

The requirements of the National Electric Code (NEC) and UL508A now require many electrical panels to carry a Short Circuit Current Rating (SCCR). Analyzing the SCCR of individual components and overcurrent protection devices is a method of determining the SCCR of an electrical assembly.

Many of Marathon's recognized and listed power blocks have now been tested and approved for higher SCCR. The higher ratings are based on proper wire sizes and the appropriate circuit protection device (fuses or circuit breakers). UL508A does allow default SCCR for power distribution blocks of 10,000A with no additional testing.

For detailed SCCR product information, please see the individual product data sheets available at: www.marathonsp.com

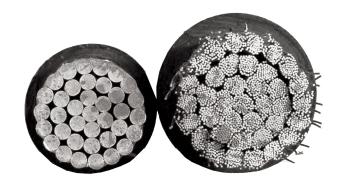


## **General Information**

## Flexible Stranded Wire Information:

Traditionally bare wire terminals used on Power Blocks and Fuse Holders have only been evaluated for use with rigid (Class B & C) wire. The majority of MSP's terminals have been evaluated for use with flexible stranded wire classes such as Class G, H, I (DLO) and K per UL 486A-B. This enables customers to be UL and NEC compliant while using flexible classes of wire without the use of crimp type terminals. We also supply a range of studded products to allow for the use of crimp terminals, which are recommended for larger wire sizes (greater than #1 AWG).

Flexible stranded wire classes also bring additional considerations to address such as an increase in wire diameter and the number of strands per a given wire size. The photo to the right shows two 250 kcmil wires of different classes. The one on the left is the traditional Class B with 37 strands. The one on the right is a finely stranded Class K. Although they are the same wire classification of 250, you can see the Class K is larger in diameter. This illustrates the need to specify a terminal to accept a larger standard wire size. The table below shows the increase in strand count per each wire size.



			AV	VG/kcmil								
Wire	Rigio	d Strande	d		Flexible		],,,,,					
Gauge	CSA Compact	Class B	Class C	Class G	Class H	Class I (DLO)	Class K	Wire Gauge				
		Number of Strands*										
#20 AWG							10	#20 AWG				
#18						-	16	#18				
#16							26	#16				
#14	_				_	19	41	#14				
#12		7	19			19	65	#12				
#10		/	19			27	104	#10				
#8	7						41	168	#8			
#6				49	133	63	266	#6				
#4				72	133	105	420	#4				
#2						161	665	#2				
#1							210	836	#1			
1/0				133		266	1064	1/0				
2/0	19	19	37		259	342	1323	2/0				
3/0						418	1666	3/0				
4/0						532	2107	4/0				
250 kcmil						637	2499	250 kcmil				
300 kcmil						735	2989	300 kcmil				
350 kcmil		27		259		882	3458	350 kcmil				
400 kcmil	27	37	61		427	980	3990	400 kcmil				
500 kcmil	37		61		42/	1225	5054	500 kcmil				
600 kcmil						1470	6065	600 kcmil				
750 kcmil				427		1850	7581	750 kcmil				
1,000 kcmil		61				2527	10101	1,000 kcmil				

<sup>\*</sup>Specific quantity of strands for Classes G, H, I (DLO) & K may vary by manufacturer

4



## **Power Blocks**

Marathon Special Products has been an industry leader for supplying power blocks in North America since 1955. We've achieved this by providing one of the broadest line offerings with various sizes, terminal styles, electrical ratings and features. Our power block offerings listed below are sure to meet your needs.

Power Block Type	Page #	Description	
Bulk Fastening (BFPB)	5	The BFPB Series is a single pole design that consists of a series of stud fasteners to allow you to terminate various combinations of crimp lugs or flexible bus bar with one configuration. The series is ideal for use with flexible stranded wire terminations or large and abnormal wiring combinations.	
Mini Bulk Fastening	6	The Mini Bulk Fastening power block is available in many configurations to suit individual requirements. This product is ideal for power distribution options when terminating flexible stranded wire with crimp lugs for flexible bus bar.	
Enclosed (EPB)	7	The EPB Series are enclosed versions of our traditional power block configurations. This series consists of a modular single pole design that provides touch proof protection for splicer and distribution connector styles.	Section of the sectio
High Voltage (HVPB)	9	The HVPB Series are High Voltage (1500 AC/DC) versions of our traditional power block configurations. This series consists of a modular single pole design for splicer, distribution and studded connector styles.	
Splicer & Distribution	11	Splicer and distribution power blocks are our traditional NEMA style offering. Splicer power blocks provide the same number of wire inputs as outputs, and distribution power blocks provide multiple load outputs per each incoming wire(s).	
Stud Configurations	17	Studded power blocks are part of our traditional NEMA style offering. These power blocks provide studs, or a combination of bare wire terminals with the stud, to terminate crimp lugs or bus bar to our power blocks to splice or distribute power.	
Miscellaneous Configurations	20	Miscellaneous power blocks are part of our traditional NEMA style offering. These power blocks provide tapped holes or quick-connects in addition to bare wire terminals to splice or distribute power.	

## Standards:

MSP's power blocks are either UL recognized or listed. Most have either CSA certification or cUR recognition for Canadian customers, as well as compliance to CE (Component IEC 60947-7-1).

Recognized power blocks comply to UL 1059 and CSA C22.2 No. 158. All of our power blocks meet the 600V spacing requirements for application classes B & C and some Class A (135s):

- Class A Service; including dead front switchboards, panel boards and service equipment
- Class B Commercial appliances; including business equipment and electronic data processing equipment
- · Class C Industrial, general

Listed power blocks comply to UL 1953. These are all rated 600V and are intended to be used on the load side of service equipment in accordance with the National Electrical Code, NFPA 70. These blocks are used for splicing conductors in metallic wireways, auxiliary gutters, junction boxes, termination boxes and control panels in order to distribute power to separate loads. Listed power blocks additionally provide feeder circuit terminal spacing requirements of UL508A.



## Bulk Fastening Power Block

### Electrical

- 1605 amps
- 1000 volts AC/DC (cULus)
- · Multiple wire rating refer to data sheets for details
- · Provides feeder circuit terminal spacing

#### Mechanical

- Insulator thermoplastic: 125°C (257°F) UL RTI
- Flammability, UL 94 V-0
- Mounting: panel mountable

### Features/Benefits

- Modular construction to accommodate numerous terminal options
- Available for 2 to 6 stud terminal positions
- Accommodates power distribution options for listed lugs sized up to 1000kcmil

## Features/Benefits - cont'd

- First power terminal block to have a high SCCR rating (35k) with no over current protection device
- Reliably terminates flexible stranded classes of wire with crimp lugs
- Suitable to terminate and distribute power with flexible bus bar

#### Standards

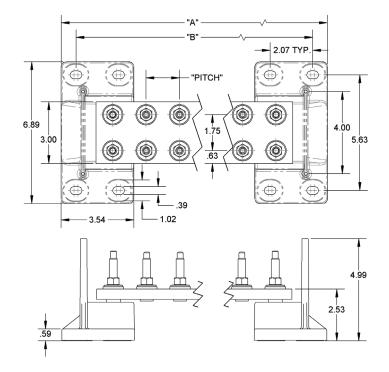
- UL recognized file no. XCFR2.E62806 (UL 1059)
- cUR recognized file no. XCFR8.E62806 (UL 1059)
- RoHS compliant (all)

## Accessories (consult customer service)

- Covers Flat screw-on see chart for catalog numbers
- Hardware included with the block as shown

Catalag #	Stud	Stud	Di	mensic	ns	Cover
Catalog #	Positions	Size	Pitch	Α	В	Part #
BFPB-50-2-2	2	1/2	2.125	7.14	5.69	CC-BFPB-2-2
BFPB-50-2-3	3	1/2	2.125	9.27	7.82	CC-BFPB-2-3
BFPB-50-2-4	4	1/2	2.125	11.39	9.94	CC-BFPB-2-4
BFPB-50-2-5	5	1/2	2.125	13.52	12.07	CC-BFPB-2-5
BFPB-50-2-6	6	1/2	2.125	15.64	14.19	CC-BFPB-2-6
BFPB-37-1-3	3	3/8	1.625	8.27	6.82	CC-BFPB-1-3
BFPB-37-1-4	4	3/8	1.625	9.89	8.44	CC-BFPB-1-4
BFPB-37-1-5	5	3/8	1.625	11.52	10.07	CC-BFPB-1-5
BFPB-37-1-6	6	3/8	1.625	13.14	11.69	CC-BFPB-1-6









## Mini Bulk Fastening Power Block

## Electrical

- 750 1500 amps
- 1500 volts

### Mechanical

· Can be panel mounted over din rail

#### Standards

- UL recognized file no. XCFR2.E62806 (UL 1059)
  - cUL recognized

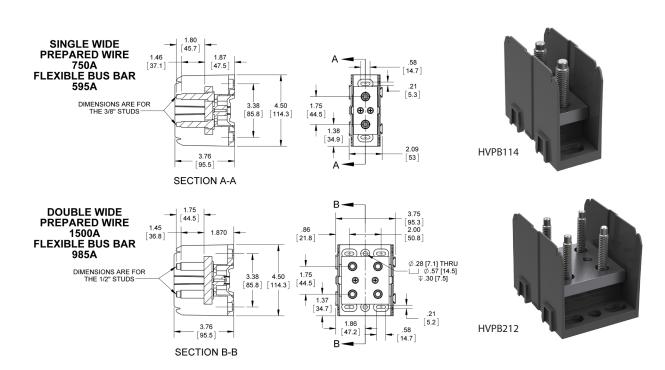
## Accessories (consult customer service)

Hinged covers available

### Features/Benefits

- Unique material allows 1500V UL rating
- SCCR 25ka rating with no over current protection device
- Accommodates various power distribution options with listed lugs
- Eliminates the need for self fabricated junction blocks in unique applications with large or unusual wiring combinations
- Improved reliability for flexible stranded wire termination with listed lugs
- Suitable to terminate and distribute power with flexible bus bar

			MATER	RIAL	LINE	SIDE	LOAI	O SIDE	
Amps	Catalog #	Connector Temp. Rating	Insulator	Conn.	Wire Range AWG/kcmil	Connector Openings/Pole	Wire Range AWG/kcmil	Connector Openings/Pole	Agency Compliance
750	HVPB112	90°C	Plastic	CU	Stud, 3/8	1	Stud, 3/8	1	UL Recognized
750	HVPB114	90°C	Plastic	CU	Stud, 1/2	1	Stud, 1/2	1	UL Recognized
1500	HVPB212	90°C	Plastic	CU	Stud, 3/8	2	Stud, 3/8	2	UL Recognized
1500	HVPB214	90°C	Plastic	CU	Stud, 1/2	2	Stud, 1/2	2	UL Recognized



## **Enclosed Power Blocks - Splicer/Distribution**

#### Electrical

- 115 510 amps
- 600 volts AC/DC (UL)
- Up to 1000 volts (IEC) reference data sheets
- Flexible stranded wire compliant
- Multiple wire rating refer to data sheets for details
- Listed products provide feeder circuit terminal spacing

### Mechanical

- Insulator thermoplastic: 125°C (257°F) UL RTI
- Flammability, UL 94 V-0
- Mounting: panel and/or DIN mountable

#### Standards

- See chart for product specific approvals listed
- UL listed or UL recognized
  - Listed file no. QPQS.E309401 (UL 1953)
  - Recognized file no. XCFR2.E62806 (UL 1059)
- CSA certified file no. LR19766 (CSA C22-2 No. 158)
- CE (component IEC 60947-7-1)
- IEC 60529, IP-20
- RoHS compliant (All)

### Accessories (consult customer service)

- Marker-cards available with custom printing
- DIN rail and anchors

### See on-line data sheets for:

- · Dimensional drawings
- · Detailed SCCR information
- · Termination and mounting specifications





Shown left to right: EPBAD74, EPBAD71 EPBAD42, EPBAD45, EPBAD21, EPBAD24

## Ordering Code:

EPB

Enclosed Power Block Χ

Connector material:

A - Aluminum rated copper or aluminum wire

C - Copper rated copper wire only

Χ

Mounting:

D - Mount on 35 mm DIN rail

P - Flat panel

(21/24 are DIN and panel mountable)

XX

21 - (1) #2 to (1) #2

24 - (1) #2 to (4) #10

42 - (1) 3/0 to (1) 3/0

45 - (1) 3/0 to (4) #2

71 - (2) 250 kcmil to (2) 250 kcmil

74 - (1) 400 kcmil to

(1) 2/0 to (8) #2



## Enclosed Power Blocks - Splicer/Distribution

				_	LINE	SIDE	LOA	AD SIDE																														
Amps	Catalog #	Mounting Style	MAX SCCR	Connector Material	Wire Range AWG/kcmil	Connector Openings/ Pole	Wire Range AWG/ kcmil	Connector Openings/ Pole	Agency Compliance																													
115	EPBAD21	Both DIN/ Panel	100,000	AL	#2 - #14	1	#2 - #14	1	UL Listed CSA Certified CE Compliant																													
115	EPBAD24	Both DIN/ Panel	65,000	AL	#2 - #14	1	#10 - #18	4	UL Listed CSA Certified CE Compliant																													
	EPBAD42	DIN	100,000	+	AL	Δ1																																
200	EPBAP42	Panel	100,000			3/0 - #14	1	3/0 - #14	1	UL Listed CSA Certified																												
200	EPBCD42	DIN	100,000		3/0 - #14		3/0-#14	' 💟	CE Compliant																													
	EPBCP42	Panel	100,000																																			
	EPBAD45	DIN 100,000	5 DIN	100,000 AL																																		
200	EPBAP45	Panel	100,000	AL	2/0 #14		#2 - #14	4 99	UL Listed CSA Certified																													
200	EPBCD45	DIN	100,000	CU	3/0 - #14	3/0 - #14	3/0 - #14	3/0 #14	3/0 #14	3/0 #14	3/0 #14	3/0 #14	3/0 - #14	3/0 #14	3/0 - #14	3/0 - #14	3/0 - #14	3/0 - #14	3/0 - #14	3/0 - #14	3/0 - #14	3/0 - #14	3/0 - #14	3/0 - #14	3/0 - #14	3/0 - #14	3/0-#14	3/0-#14	3/0-#14	3/0-#14	3/0 - #14	3/0-#14	3/0-#14	3/0 - #14	' 🗀	#2-#14	*   00	CE Compliant
	EPBCP45	Panel	100,000	CU																																		
	EPBAD74	DIN	10,000	AL																																		
335	EPBAP74	Panel	100,000	AL	400 - #6/	1/1	#2 - #14	8 0000	UL Recognized CSA Certified																													
333	EPBCD74	DIN	10,000	CU	2/0 - #14		#2-#14	8 0000	CE Compliant																													
	EPBCP74	Panel	100,000	CO																																		
	EPBAD71	DIN	10,000	AL																																		
510	EPBAP71	Panel	100,000		350 #6	2 00	250 - #6	2	UL Recognized																													
310	EPBCD71	DIN	10,000	CU	250 - #6				CSA Certified CE Compliant																													
	EPBCP71	Panel	100,000	CU																																		

Go to WWW.MARATHONSP.COM for:

Product specific data sheets (includes detailed drawings & SCCR Ratings)

Request 2D/3D CAD files Check distributor stock Request samples





## Power Blocks - High Voltage (1500V)

#### Electrical

- 350 950 amps
- 1500 volts AC/DC (UL)
- Provides feeder circuit terminal spacing at 600V
- Flexible stranded wire compliant
- Multiple wire rating refer to data sheets for detail

### Mechanical

- Base, thermoplastic
- Insulator temp-rating: 110°C (230°F) UL RTI
- Flammability, UL 94 V-0
- Mounting: panel mountable
- · Modular construction for multi-pole configurations

### Standards

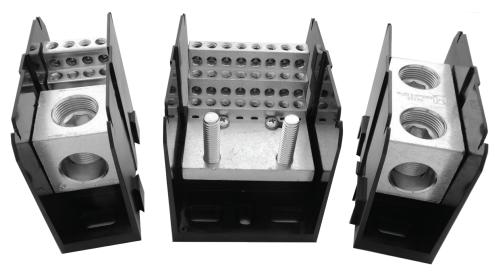
- UL recognized file No. XCFR2.E62806 (UL 1059)
- cUR recognized file No. XCFR8.E62806 (UL 1059)
- RoHS compliant

### Accessories

- Covers Hinge covers available (see ordering code)
- Printing consult factory for custom requests

## See on-line data sheets for:

- Dimensional drawings
- · Detailed product specific information
- Termination and mounting specifications



Shown left to right: HVPB108, HVPB203, HVPB109

## Ordering Code:

**SERIES** 

HVPB

High Voltage

**Power Block** 

XXX Random

3-digit

Identifier

IDENTIFIER

COVER OPTION

XX

Blank = No Cover CH = Hinge Cover Attached

g



## Power Blocks - High Voltage (1500V)

		r Jg	MATER	RIAL	LINE	SIDE	LOAI	O SIDE	
Amps	Catalog #	Connector Temp. Rating	Insulator	Conn.	Wire Range AWG/kcmil	Connector Openings/ Pole	Wire Range AWG/kcmil	Connector Openings/Pole	Agency Compliance
350	HVPB105	90°C	Plastic	AL	Stud, M10	1	#10 - #14 (a)	24	UL Recognized
420	HVPB108	75°C	Plastic	AL	600 - #2	1	#4 - #14	12	UL Recognized
420	HVPB109	75°C	Plastic	AL	600 - #2	1	600 - #2	1	UL Recognized
430	HVPB101	90°C	Plastic	AL	Stud, M10	1	#6 - #14 (b)	12	UL Recognized
430	HVPB103	90°C	Plastic	AL	Stud, M10	1	#4 - #14 (c)	8 0000	UL Recognized
430	HVPB107	90°C	Plastic	CU	Stud, M10	1	Stud, M10	1	UL Recognized
430	HVPB208	90°C	Plastic	CU	Stud, 1/2-13 x 1.44"	1	Stud, 1/2-13 x 1.44"	1	UL Recognized
760	HVPB210	75°C	Plastic	AL	500 - #4	2	#2 - #14	12 000000	UL Recognized
760	HVPB211	75°C	Plastic	AL	500 - #4	2	2/0 - #14	8 0000	UL Recognized
860	HVPB205	90°C	Plastic	AL	Stud, M10	1	#4 - #14 (c)	16 00000000	UL Recognized
860	HVPB207	90°C	Plastic	AL	Stud, M10	2	#4 - #14 (c)	16 00000000	UL Recognized
860	HVPB201	90°C	Plastic	AL	Stud, M10	1	#6 - #14 (b)	24   00000000   00000000	UL Recognized
860	HVPB203	90°C	Plastic	AL	Stud, M10	2	#6 - #14 (b)	24   00000000000000000000000000000000000	UL Recognized
950	HVPB602	90°C	Plastic	AL	600 - #2	2	600 - #2	2	UL Recognized

<sup>(</sup>a) suitable for #8 AWG, limited to 40A per wire, copper only

<sup>(</sup>b) suitable for #4 AWG, limited to 75A per wire, copper only

<sup>(</sup>c) suitable for #2 AWG, limited to 95A per wire, copper; 75A per wire, aluminum

### Electrical

- 60 2280 amps
- 600 volts AC/DC (UL)
- · Flexible stranded wire compliant
- Multiple wire rating refer to data sheets for details
- Listed products provide feeder circuit terminal spacing

### Mechanical

- Base, black thermoplastic or phenolic (see chart)
- · Insulator temp-ratings
  - Thermoplastic: 125°C (257°F) UL RTI
  - Phenolic: 150°C (302°F) UL RTI
- Flammability, UL 94 V-0
- Mounting: panel mountable, 132 series is also DIN mountable

### Standards

- See chart for product specific approvals listed
- UL listed or UL recognized
  - Listed file no. QPQS.E309401 (UL 1953)
  - Recognized file no. XCFR2.E62806 (UL 1059)
- CSA certified file no. LR19766 (CSA C22-2 No. 158)
- CE (Component IEC 60947-7-1)
- RoHS compliant (All)

### Accessories (consult customer service)

- Covers see page 24 for series cover specifications
- Marking strips available with custom printing
- · Printing consult factory for custom requests

## See on-line data sheets for:

- Dimensional drawings
- Detailed SCCR information
- Termination and mounting specifications



1413400

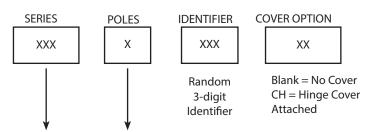


1333587CH (shown with cover)



1433124 (shown with marking strip)

## **Ordering Code:**



Series	Poles Available Dimensions		Cover Type Available		
141	1/2/3/4	Pg 21	Flat		
140	2/3	Pg 22	Flat		
132	0/1/2/3	Pg 21	Hinge		
142		Pg 21	Flat		
143		Pg 22	Flat		
133	1/2/2	Pg 22	Hinge		
144	1/2/3	Pg 23	Flat		
145		Pg 23	Flat		
135		Pg 23	Hinge		



			MATERI	IAL	LINE SI	DE	LOAI	) SIDE	
Amps	Catalog #	Poles (X)	Insulator	Conn.	Wire Range AWG/kcmilil	Connector Openings/ Pole	Wire Range AWG/kcmil	Connector Openings/Pole	Agency Compliance
60	141x403	1/2/3/4	Plastic	AL	#2 - #14	1	#10 - #18	2	UL Recognized CSA Certified CE Compliant
115	141x300	1/2/3/4	Plastic	AL	#2 - #14	1	#2 - #14	1	UL Recognized CSA Certified CE Compliant
115	142x552	1/2/3	Phenolic	AL	#2 - #14	1	#2 - #14	1	UL Recognized CSA Certified CE Compliant
115	141x400	1/2/3/4	Plastic	AL	#2 - #14	1	#10 - #18	4	UL Recognized CSA Certified CE Compliant
150	142x121	1/2/3	Phenolic	CU	1/0-#14	1	1/0-#14	1	UL Recognized CSA Certified CE Compliant
175	132x572	0/1/2/3	Plastic	AL	2/0 - #14	1	2/0 - #14	1	UL Recognized CSA Certified CE Compliant
175	142x572	1/2/3	Phenolic	AL	2/0 - #14	1	2/0 - #14	1	UL Recognized CSA Certified CE Compliant
175	132x972	1/2/3	Plastic	CU	2/0 - #14	1	2/0 - #14	1	UL Recognized CSA Certified CE Compliant
175	132x570	0/1/2/3	Plastic	AL	2/0 - #14	1	#4 - #14	4	UL Recognized CSA Certified CE Compliant
175	142x570	1/2/3	Phenolic	AL	2/0 - #14	1	#4 - #14	4	UL Recognized CSA Certified CE Compliant
175	132x580	0/1/2/3	Plastic	AL	2/0 - #14	1	#4 - #14	6	UL Recognized CSA Certified CE Compliant
175	140x402	2/3	Phenolic	AL	2/0 - #14	1	#4 - #14	4	UL Recognized CSA Certified CE Compliant
175	140x401	2/3	Phenolic	AL	2/0 - #14	1	#4 - #14	6 000	UL Recognized CSA Certified CE Compliant
175	132x970	0/1/2/3	Plastic	CU	2/0 - #14	1	#4 - #14	4	UL Recognized CSA Certified CE Compliant
175	142x970	1/2/3	Phenolic	CU	2/0 - #14	1	#4 - #14	4	UL Recognized CSA Certified CE Compliant
255	143x124	1/2/3	Phenolic	CU	250 kcmil - #6	1	250 kcmil - #6	1	UL Recognized CSA Certified CE Compliant
255	143x123	1/2/3	Phenolic	AL	250 kcmil - #6	1	250 kcmil - #6	1	UL Recognized CSA Certified CE Compliant



			MATER	IAL	LINE SI	DE	LOAD	SIDE	
Amps	Catalog #	Poles (X)	Insulator	Conn.	Wire Range AWG/kcmil	Connector Openings/ Pole	Wire Range AWG/kcmil	Connector Openings/Pole	Agency Compliance
255	140x801	2/3	Phenolic	CU	250 - #6	1	250 - #6	1	UL Recognized CSA Certified CE Compliant
310	140x303	2/3	Phenolic	AL	350 - #6	1	350 - #6	1	UL Recognized CSA Certified CE Compliant
310	143x126	1/2/3	Plastic	AL	350 - #6	1	350 - #6	1	UL Recognized CSA Certified CE Compliant
310	133x126	1/2/3	Plastic	AL	350 - #6	1	350 - #6	1	UL Recognized CSA Certified CE Compliant
310	140x404	2/3	Phenolic	AL	350 - #6	1	#4 - #14	6 000	UL Recognized CSA Certified CE Compliant
310	133x554	1/2/3	Plastic	AL	350 - #6	1	2/0 - #14	2	UL Recognized CSA Certified CE Compliant
310	140x410	2/3	Phenolic	AL	350 - #6	1	2/0 - #14	2	UL Recognized CSA Certified CE Compliant
310	143x554	1/2/3	Phenolic	AL	350 - #6	1	2/0 - #14	2	UL Recognized CSA Certified CE Compliant
310	133x324	1/2/3	Plastic	AL	350 - #6	1	#8 - #14	24 000000	UL Recognized cUL Recognized CE Compliant
335	144x401	1/2/3	Phenolic	CU	400 - #6	1	#2 - #14	6 000	UL Recognized CSA Certified CE Compliant
335	143x552	1/2/3	Phenolic	AL	400 - #6	1	#2 - #14	4	UL Recognized CSA Certified CE Compliant
335	143x553	1/2/3	Phenolic	AL	400 - #6	1	#2 - #14	6 000	UL Recognized CSA Certified CE Compliant
335	144x560	1/2/3	Phenolic	AL	400 - #6	1	#2 - #14	8 0000	UL Recognized CSA Certified CE Compliant
335	133x552	1/2/3	Plastic	AL	400 - #6	1	#2 - #14	4	UL Recognized CSA Certified CE Compliant
350	133x305	1/2/3	Plastic	AL	2/0 - #14	2	2/0 - #14	2	UL Recognized CSA Certified CE Compliant
350	143x306	1/2/3	Phenolic	AL	2/0 - #14	2	2/0 - #14	2	UL Recognized CSA Certified CE Compliant
350	143x555	1/2/3	Phenolic	AL	2/0 - #14	2	#4 - #14	6 000	UL Recognized CSA Certified CE Compliant



			MATERI	AL	LINE SI	DE	LOAD S	SIDE	
Amps	Catalog #	Poles (X)	Insulator	Conn.	Wire Range AWG/kcmil	Connector Openings/ Pole	Wire Range AWG/kcmil	Connector Openings/Pole	Agency Compliance
350	133x555	1/2/3	Plastic	AL	2/0 - #14	2	#4 - #14	6 000	UL Recognized CSA Certified CE Compliant
350	143x955	1/2/3	Phenolic	CU	2/0 - #14	2	#4 - #14	6 000	UL Recognized CSA Certified CE Compliant
350	133x955	1/2/3	Plastic	CU	2/0 - #14	2	#4 - #14	6 000	UL Recognized CSA Certified CE Compliant
380	143x953	1/2/3	Phenolic	CU	500 - #4	1	#2 - #14	6 000	UL Recognized CSA Certified CE Compliant
380	133x953	1/2/3	Plastic	CU	500 - #4	1	#2 - #14	6 000	UL Recognized CSA Certified CE Compliant
380	144x551	1/2/3	Phenolic	AL	500 - #4	1	#2 - #14	6 000	UL Recognized CSA Certified CE Compliant
380	145x579	1/2/3	Phenolic	AL	500 - #4	1	#2/0 - #14	6 000	UL Recognized CSA Certified CE Compliant
380	133x587	1/2/3	Plastic	AL	500 - #4	1	#2 - #14 350 - #6	3/1	UL Recognized CSA Certified CE Compliant
380	143x587	1/2/3	Phenolic	AL	500 - #4	1	#2 - #14 350 - #6	3/1	UL Recognized CSA Certified CE Compliant
380	145x594	1/2/3	Phenolic	AL	500 - #4	1	#2 - #14	8 0000	UL Recognized CSA Certified CE Compliant
380	145x552	1/2/3	Phenolic	AL	500 - #4	1	#2 - #14	12 000000	UL Recognized CSA Certified CE Compliant
420	144x557	1/2/3	Phenolic	AL	600 - #4	1	600 - #4	1	UL Recognized CSA Certified CE Compliant
420	133x360	1/2/3	Plastic	AL	600 - #2	1	600 - #2	1	UL Recognized CSA Certified CE Compliant
420	133x588	1/2/3	Plastic	AL	600 - #2	1	#2 - #14 1/0 - #14	6/3	UL Recognized CSA Certified CE Compliant
420	133x595	1/2/3	Plastic	AL	600 - #2	1	#4 - #14	12 0000	UL Recognized CSA Certified CE Compliant
420	133x585	1/2/3	Plastic	AL	600 - #2	1	#2 - #14	8 0000	UL Recognized CSA Certified CE Compliant
420	133x575	1/2/3	Plastic	AL	600 - #2	1	2/0 - #14	4	UL Recognized CSA Certified CE Compliant



			MATER	IAL	LIN	NE SIDE	LOAD :	SIDE	
Amps	Catalog #	Poles (X)	Insulator	Conn.	Wire Range AWG/kcmil	Connector Openings/ Pole	Wire Range AWG/kcmil	Connector Openings/Pole	Agency Compliance
420	133x565	1/2/3	Plastic	AL	600 - #2	1	250 - #6	2	UL Recognized CSA Certified CE Compliant
420	135x601	1/2/3	Plastic	AL	600 - #2	1	#6 - #14	24 00000000	UL Recognized cUL Recognized
475	135x701	1/2/3	Plastic	AL	750 - 1/0	1	750 - 1/0	1	UL Listed <sup>1</sup>
510	133x320	1/2/3	Plastic	AL	250 - 1/0	2	250 - 1/0	2	UL Recognized CSA Certified CE Compliant
510	133x596	1/2/3	Plastic	AL	250 - 1/0	2	#4 - #14	12	UL Recognized CSA Certified CE Compliant
510	133x597	1/2/3	Plastic	AL	250 - 1/0	2	#2 - #14	8 0000	UL Recognized CSA Certified CE Compliant
510	133x598	1/2/3	Plastic	AL	250 - 1/0	2	2/0 - #14	4	UL Recognized CSA Certified CE Compliant
620	145x129	1/2/3	Phenolic	AL	350 - #4	2	350 - #4	2	UL Recognized CSA Certified CE Compliant
620	1331348	1	Plastic	AL	350 - #4	2	#8 - #14	48	UL Recognized CSA Certified CE Compliant
690	145x587	1/2/3	Phenolic	AL	500 - #4 350 - #4	1/1	2/0 - #14	4 0000	UL Recognized CSA Certified CE Compliant
760	145x301	1/2/3	Phenolic	AL	500 - #4	2	500 - #4	2	UL Recognized CSA Certified CE Compliant
760	145x592	1/2/3	Phenolic	AL	500 - #4	2	#4 - #14	12 000000	UL Recognized CSA Certified CE Compliant
760	145x586	1/2/3	Phenolic	AL	500 - #6	2	2/0 - #14	8 0000	UL Recognized CSA Certified CE Compliant
760	145x992	1/2/3	Phenolic	CU	500 - #4	2	#2 - #14	12 000000	UL Recognized CSA Certified CE Compliant
760	145x986	1/2/3	Phenolic	CU	500 - #4	2	2/0 - #14	8 0000	UL Recognized CSA Certified CE Compliant
760	145x408	1/2/3	Phenolic	AL	500 - #6	2	#2 - #14	12 000000	UL Recognized CSA Certified CE Compliant
840	145x411	1/2/3	Phenolic	AL	600 - #2	2	3/0 - #6 #4 - #14	4/4	UL Recognized CSA Certified CE Compliant

<sup>&</sup>lt;sup>1</sup>UL Listed without a cover (CH). When purchased with a cover, the product is UL Recognized to US and Canadian standards (cULus).



			MATERI	AL	LINI	E SIDE	LOAD S	IDE	
Amps	Catalog #	Poles (X)	Insulator	Conn.	Wire Range AWG/kcmil	Connector Openings/ Pole	Wire Range AWG/kcmil	Connector Openings/ Pole	Agency Compliance
950	135x605	1/2/3	Plastic	AL	600 - #2	2	350 - 4	4	UL Recognized cUL Recognized CE Compliant
950	135x702	1/2/3	Plastic	AL	750 - 1/0	2	750 - 1/0	2	UL Listed <sup>1</sup>
950	135x703	1/2/3	Plastic	AL	750 - 1/0	2	250 - #6	6 000	UL Listed <sup>1</sup>
950	135x704	1/2/3	Plastic	AL	750 - 1/0	2	2/0 - #14	10 00000	UL Listed <sup>1</sup>
950	135x705	1/2/3	Plastic	AL	750 - 1/0	2	#2 - #14 250 - #6	12/3	UL Listed <sup>1</sup>
950	135x706	1/2/3	Plastic	AL	750 - 1/0	2	#2 - #14 250 - #6	4/5	UL Listed <sup>1</sup>
950	135x707	1/2/3	Plastic	AL	750 - 1/0	2	#2 - #14 3/0 - #6	12/4	UL Listed <sup>1</sup>
950	135x708	1/2/3	Plastic	AL	750 - 1/0	2	3/0 - #6	8 0000	UL Listed <sup>1</sup>
2280	1453401²	1	Phenolic	AL	500 - #4	6 000000	2/0 - #14	18 000000000	UL Recognized cUL Recognized CE Compliant

<sup>&</sup>lt;sup>1</sup> UL Listed when purchased without a cover (CH). When purchased with a cover, the product is UL Recognized to US and Canadian standards (cURus).

### Go to WWW.MARATHONSP.COM for:

Product specific data sheets (includes detailed drawings & SCCR Ratings)

Request 2D/3D CAD files Check distributor stock Request samples



<sup>&</sup>lt;sup>2</sup> Special 1-pole power block with the dimensions of a 3-pole 145 series power block.



## **Power Blocks - Stud Configurations**

#### Electrical

- 115 1680 amps
- 600 volts AC/DC (UL)
- · Flexible stranded wire compliant
- Multiple wire rating refer to data sheets for details

### Mechanical

- Base, black thermoplastic or phenolic (see chart)
- · Insulator temp-ratings
  - Thermoplastic: 125°C (257°F) UL RTI
  - Phenolic: 150°C (302°F) UL RTI
- Flammability, UL 94 V-0
- Mounting: panel mountable, 132 series is also DIN mountable

#### Standards

- · See chart for product specific approvals listed
- UL recognized file no. XCFR2.E62806 (UL 1059)
- CSA certified file no. LR19766 (CSA C22-2 No. 158)
- CE (Component IEC 60947-7-1)
- RoHS compliant (all)

### Accessories (consult customer service)

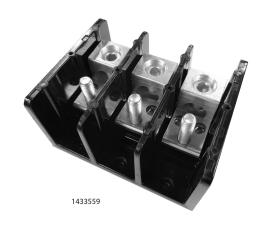
- Covers see page 24 for series cover specifications
- Marking strips available with custom printing
- Printing consult factory for custom requests

## See on-line data sheets for:

- Dimensional drawings
- Detailed SCCR information
- Termination and mounting specifications







SERIES	POLES
XXX	Х

IDENTIFIER
XXX
Random
3-digit
Identifier



Blank = No Cover CH = Hinge Cover Attached

Series	Poles Available	Dimensions	Cover Type Available
141	1/2/3/4	Pg 21	Flat
140	2/3	Pg 22	Flat
132	0/1/2/3	Pg 21	Hinge
142		Pg 21	Flat
143		Pg 22	Flat
133	1/2/2	Pg 22	Hinge
144	1/2/3	Pg 23	Flat
145		Pg 23	Flat
135		Pg 23	Hinge



## Power Blocks - Stud Configurations

			MATER	AL	LINE SID	DE	LOAI	O SIDE	
Amps	Catalog #	Poles (X)	Insulator	Conn.	Wire Range AWG/kcmil - or - Stud Size	Stud or Connector Openings/ Pole	Wire Range AWG/kcmil - or - Stud Size	Stud or Connector Openings/Pole	Agency Compliance
115	141x203	1/2/3/4	Plastic	AL	#2 - #14	1	#10-32 X .60	1	UL Recognized CSA Certified CE Compliant
175	132x574	0/1/2/3	Plastic	AL	2/0 - #14	1	1/4-20 x .50	1	UL Recognized CSA Certified CE Compliant
175	132x474	0/1/2/3	Plastic	AL	2/0 - #14	1	M6 X 13	1	UL Recognized CSA Certified CE Compliant
175	142x574	1/2/3	Phenolic	AL	2/0 - #14	1	1/4-20 X .50	1	UL Recognized CSA Certified CE Compliant
175	143x590	1/2/3	Phenolic	AL	2/0 - #14	1	1/4-20 X 1.38	1	UL Recognized CSA Certified CE Compliant
200	132x122	0/1/2/3	Plastic	CU	1/4-20 X .56	1	1/4-20 X .56	1	UL Recognized CSA Certified CE Compliant
200	132x422	0/1/2/3	Plastic	CU	M6 X 15	1	M6 X 15	1	UL Recognized CSA Certified CE Compliant
200	142x122	1/2/3	Phenolic	CU	1/4-20 X .56	1	1/4-20 X .56	1	UL Recognized CSA Certified CE Compliant
230	143x563	1/2/3	Phenolic	CU	3/8-16 x 1.18	1	3/8-16 x 1.18	1	UL Recognized CSA Certified CE Compliant
230	143x561	1/2/3	Phenolic	CU	3/8-16 x 1.18	1	1/4-20 x 1.38	1	UL Recognized CSA Certified CE Compliant
230	144x553	1/2/3	Phenolic	CU	3/8-16 x 1.44	1	3/8-16 x 1.44	1	UL Recognized CSA Certified CE Compliant
260	144x122	1/2/3	Phenolic	CU	3/8-16 x 1.44	1	1/4-20 X .56	2	UL Recognized CSA Certified CE Compliant
310	133x564	1/2/3	Plastic	CU	M10 x 30	1	M10 x 30	1	UL Recognized CSA Certified CE Compliant
310	133x563	1/2/3	Plastic	CU	3/8-16 x 1.18	1	3/8-16 x 1.18	1	UL Recognized CSA Certified CE Compliant
310	143x559	1/2/3	Phenolic	AL	350 - #6	1	3/8-16 x 1.13	1	UL Recognized CSA Certified CE Compliant
310	133x559	1/2/3	Phenolic	AL	350 - #6	1	3/8-16 x 1.25	1	UL Recognized CSA Certified CE Compliant
310	133x558	1/2/3	Phenolic	AL	350 - #6	1	M10 x 30	1	UL Recognized CSA Certified CE Compliant



## Power Blocks - Stud Configurations

			MATER	IAL	LINE SI	DE	LOAD	SIDE	
Amps	Catalog #	Poles (X)	Insulator	Conn.	Wire Range AWG/kcmil - or - Stud Size	Stud or Connector Openings/ Pole	Wire Range AWG/kcmil - or - Stud Size	Stud or Connector Openings/ Pole	Agency Compliance
360	145x573	1/2/3	Phenolic	CU	3/8-16 x 1.44	1	3/8-16 x 1.44	2	UL Recognized CSA Certified CE Compliant
360	145x583	1/2/3	Phenolic	CU	3/8-16 x 1.44	1	1/4-20 x 1.44	2	UL Recognized CSA Certified CE Compliant
380	144x569	1/2/3	Phenolic	AL	500 - #4	1	1/4-20 x 1.06	2	UL Recognized CSA Certified CE Compliant
380	144x575	1/2/3	Phenolic	AL	500 - #4	1	3/8-16 x 1.31	1	UL Recognized CSA Certified CE Compliant
410	145x606	1/2/3	Phenolic	CU	1/2-13 x 1.44	1	1/2-13 x 1.44	1	UL Recognized CSA Certified CE Compliant
410	133x611	1/2/3	Plastic	CU	1/2-13 x 1.38	1	1/2-13 x 1.38	1	UL Recognized CSA Certified CE Compliant
475	145x613	1/2/3	Phenolic	CU	3/8-16 x 1.44	1	3/8-16 x 1.44	1	UL Recognized CSA Certified CE Compliant
510	133x272	1/2/3	Plastic	AL	3/8-16 x 1.19 <sup>(a)</sup>	1	4 - #14	12	UL Recognized CSA Certified CE Compliant
510	133x280	1/2/3	Plastic	AL	3/8-16 x 1.19 <sup>(a)</sup>	1	#2 - #14	8 0000	UL Recognized cUL Recognized CE Compliant
510	133x270	1/2/3	Plastic	AL	3/8-16 x 1.19 <sup>(a)</sup>	1	2/0 - #14	4	UL Recognized CSA Certified CE Compliant
760	145x282	1/2/3	Phenolic	AL	3/8-16 x 1.00	2	2/0 - #14	8 0000	UL Recognized CSA Certified CE Compliant
760	145x599	1/2/3	Phenolic	AL	500 - #4	2	3/8-16 x 1.31	2	UL Recognized CSA Certified CE Compliant
760	145x610	1/2/3	Phenolic	AL	500 - #4	2	1/2-13 x 1.31	1	UL Recognized (cURus)
840	144x614	1/2/3	Phenolic	CU	3/8-16 x 1.00	1	3/8-16 x 1.00	1	UL Recognized CSA Certified CE Compliant
1680	145x615	1/2/3	Phenolic	AL	600 - #4	2	1/2-13 x 1.56	1	UL Recognized CSA Certified CE Compliant

<sup>(</sup>a) M10 x 30mm stud is available as an alternate.

Consult customer service or visit http://www.marathonsp.com/EngineeringRequest.html for part numbers and availability.



## Power Blocks - Miscellaneous Configurations

## **Electrical**

- 115 200 amps
- 600 volts AC/DC (UL)
- Flexible stranded wire compliant
- Multiple wire rating refer to data sheets for details

### Mechanical

- Base, black thermoplastic or phenolic (see chart)
- · Insulator temp-ratings
  - Thermoplastic: 125°C (257°F) UL RTI
  - Phenolic: 150°C (302°F) UL RTI
- Flammability, UL 94 V-0
- Mounting: panel mountable, 132 series is also DIN mountable



### Standards

- See chart for product specific approvals listed
- UL recognized file no. XCFR2.E62806 (UL 1059)
- CSA certified file no. LR19766 (CSA C22-2 No. 158)
- CE (Component IEC 60947-7-1)
- RoHS compliant (All)

## Accessories (consult customer service)

- Covers see page 24 for series cover specifications
- Marking strips available with custom printing
- Printing consult factory for custom requests



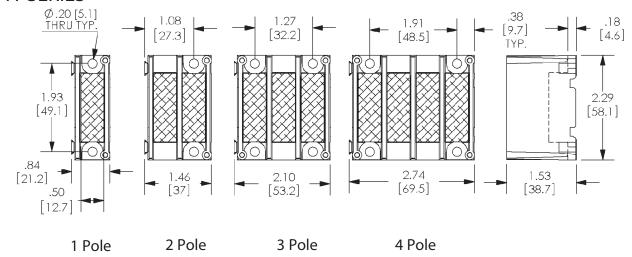
1413205

			MATERI	AL	LINE S	SIDE	LOAD	SIDE	
Amps	Catalog #	Poles (X)	Insulator	Conn.	Wire Range AWG/kcmil	Connector Openings/ Pole	Wire Range AWG/kcmil	Connector Openings/Pole	Agency Compliance
115	141x201	1/2/3/4	Plastic	AL	#2 - #14	1	#10-32 Tapped Hole	1	UL Recognized CSA Certified CE Compliant
115	141x202	1/2/3/4	Plastic	AL	#2 - #14	1	1/4 Quick Connects	4	UL Recognized CSA Certified CE Compliant
115	141x205	1/2/3/4	Plastic	AL	#2 - #14	1	1/4 Quick Con- nects (2) & #10- 32 Tap	2/1	UL Recognized CSA Certified CE Compliant
115	141x301	1/2/3/4	Plastic	AL	#2 - #14	1	#2 - #14 & 1/4 Quick Connect	1/1	UL Recognized CSA Certified CE Compliant
175	142x553	1/2/3	Phenolic	AL	#2/0 - #14	1	1/4-20 Tapped Hole	1	UL Recognized CSA Certified CE Compliant
175	132x579	1/2/3	Plastic	AL	#2/0 - #14	1	#2 - #14 & (1) Quick Connect	1/1	UL Recognized
175	132x670	1/2/3	Plastic	AL	#2/0 - #14	1	#4 - #14 & (1) Quick Connect	4/1	UL Recognized
200	142x123	1/2/3	Phenolic	CU	1/4-20 Screw	1	1/4-20 Screw	1	UL Recognized CSA Certified CE Compliant

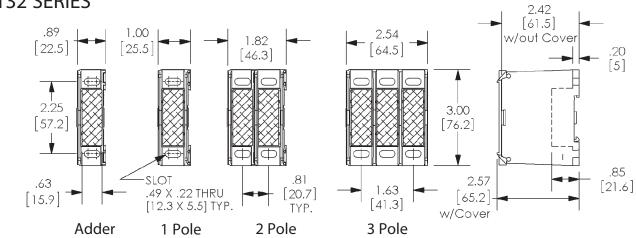


## **Power Terminal Block Dimensions**

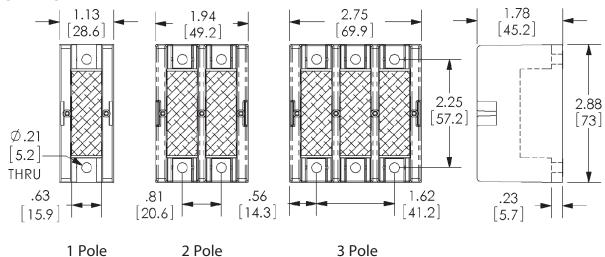
## 141 SERIES



## 132 SERIES



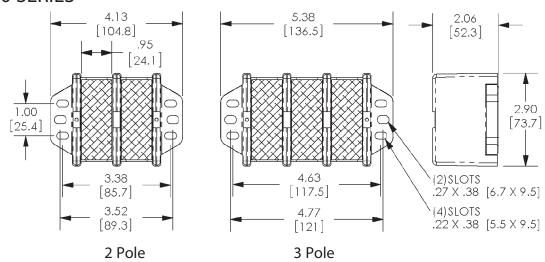
## 142 SERIES



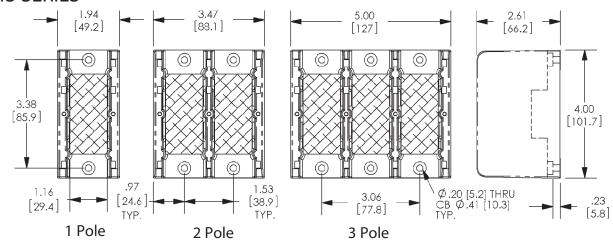


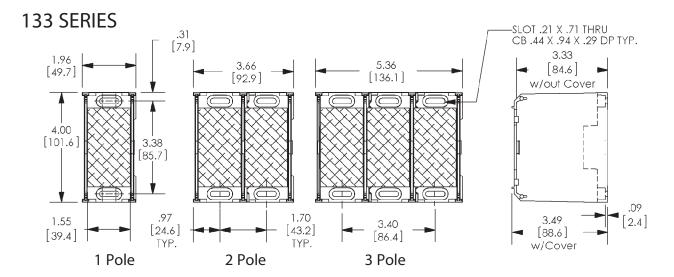
## Power Terminal Block Dimensions

## 140 SERIES



## 143 SERIES

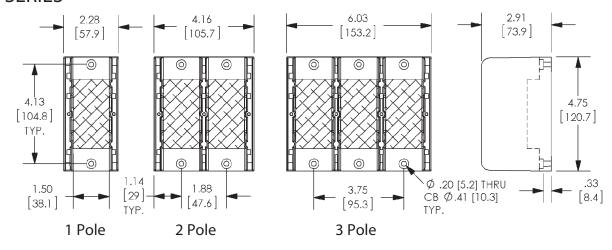




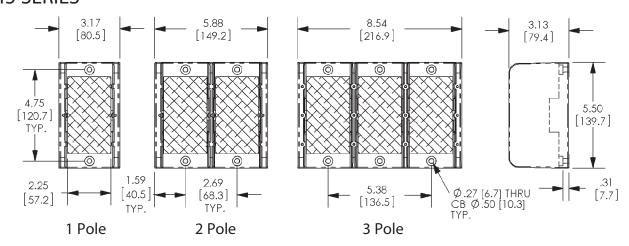


## **Power Terminal Block Dimensions**

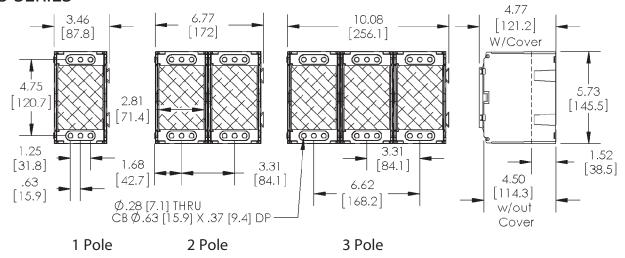
## 144 SERIES



## 145 SERIES



## 135 SERIES





## **Power Block Covers**

## Specifications:

## 140/141/142/143/144/145 Series (Figures 1 & 2)

- Material UL recognized, QMFZ2, 125°C, .06 clear protective plastic
- · Thread cutting screws furnished per cover
- RoHS compliant

## 132/133 Series (Figure 3)

- Snap on, hinge cover, black thermoplastic
- UL recognized, QMFZ2, 125°C
- RoHS compliant

## 135 Series (Figure 4)

- Snap on, hinge cover, black thermoplastic
- UL recognized, QMFZ2, 125°C
- · RoHS compliant

### Dimensions (inches):

Catalog #	Α	В	Figure #	
CC1402	2.75	2.50	1	
CC1403	4.00	2.30	'	
CC1411	0.77			
CC1412	1.42	2.40	2	
CC1413	2.05	2.40	2	
CC1414	2.68			
CC1421	1.06			
CC1422	1.87	2.75	1	
CC1423	2.68			
CC1431	1.78			
CC1432	3.31	3.38	1	
CC1433	4.84			
CC1411	2.12			
CC1442	4.00	4.00	1	
CC1443	5.87			
CC1451	2.87			
CC1452	5.56	4.5	1	
CC1453	8.28			
CH1321	0.88			
CH1322	1.69	2.87	3	
CH1323	2.50			
CH1331	1.93			
CH1332	3.61	3.89	3	
CH1333	5.30			
CH1351 (one pole only)	3.35	5.65	4	

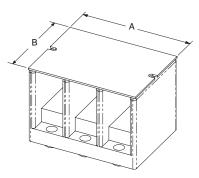


FIGURE 1

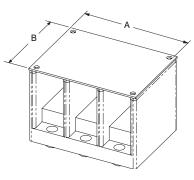


FIGURE 2

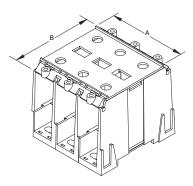


FIGURE 3 (Hinge Cover)

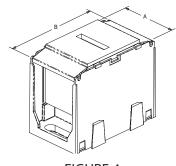


FIGURE 4 (Hinge Cover)



## Studded Power Feed Thru Terminal Blocks ST722 Series

### Electrical

- 300 volts AC/DC (UL)
- 115 175 amps (see chart)
- Wire range is determined by the compression lugs used. Typically accepts 2/0 - #8 AWG lug sizes.
- Short circuit current rating (SCCR) of 10K
- · Factory and field wiring

## **General Specifications**

- Base, black thermoplastic
- · Studs, brass, nickel plated
- Insulator temp-rating: 125°C (257°F) UL RTI
- Flammability, UL 94 V-0
- Mounting: panel mountable (back or end)
- .73" centers (pole-to-pole)
- Accommodates two hole compression lugs with .625" centers and a max width of .64"
- Application torque: 35 lbf-in for #10 32 and M5,
   50 lbf-in for 1/4" 20 and M6



ST722B2502

#### Standards

- See chart for product specific approvals listed
- UL recognized file no. XCFR2.E62806 (UL 1059)
- CSA certified file no. LR19766 (CSA C22-2 No. 158)
- CE (component IEC 60947-7-1)
- RoHS compliant (all)

### Accessories

- · Hardware see table below for specifications
- Covers see page 27 for series cover specifications
- Printing consult factory for custom requests

### See On-line Data Sheet for:

- Panel cut-out specifications
- Detailed product specific information
- · Termination & mounting specifications



ST722E2502

## Ordering Code:

Series	Mounting	Thread	Number	Terminal	Hardware
	Style	Size	of Poles	Options	Options
ST722	X	XX	XX		

B = Back	25 = 1/4-20	01 = 1 Pole	Blank = Studs Top & Bot.	Blank – No hardware
Mount	19 = #10-32	02 = 2  Pole	T1 = Tap Top, Stud Bot.	UH – All nuts shipped bulk
E = End Mount	M6 = M6	03 = 3  Pole	T1S = Stud Top, Tap Bot.	AH – All nuts assembled
	M5 = M5	04 = 4  Pole	T2 = Tap Top & Bot.	DL – Assembled barrier
		05 = 5  Pole		side, remainder shipped
		06 = 6  Pole		bulk



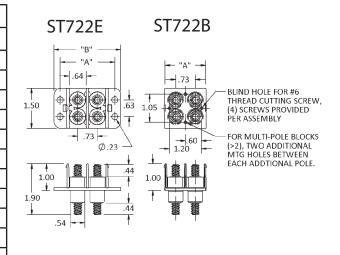
## Studded Power Feed Thru Terminal Blocks ST722 Series

Series	Amp Rating	Mounting Style	Poles Available	Terminal Illustration ( 2 pole shown)	Agency Compliance
ST722Bxxxx	175	Back	2 to 6		UL Recognized CSA Certified CE Compliant
ST722BxxxxT1	115	Back	2 to 6		UL Recognized cUL Recognized CE Compliant
ST722BxxxxT1S	115	Back	2 to 6		UL Recognized cUL Recognized CE Compliant
ST722BxxxxT2	115	Back	2 to 6		UL Recognized cUL Recognized CE Compliant
ST722Exxxx	175	End	1 to 6		UL Recognized CSA Certified CE Compliant
ST722ExxxxT1	115	End	1 to 6		UL Recognized cUL Recognized CE Compliant
ST722ExxxxT1S	115	End	1 to 6		UL Recognized cUL Recognized CE Compliant
ST722ExxxxT2	115	End	1 to 6		UL Recognized cUL Recognized CE Compliant



# Studded Power Feed Thru Terminal Blocks ST722 Series Dimensions

Catalog	Number	Dimensions		
#	of Poles	"A"	"B"	
ST722Bxx02	2	1.55	N/A	
ST722Bxx03	3	2.28	N/A	
ST722Bxx04	4	3.01	N/A	
ST722Bxx05	5	3.74	N/A	
ST722Bxx06	6	4.47	N/A	
ST722Exx01	1	1.32	1.77	
ST722Exx02	2	2.05	2.50	
ST722Exx03	3	2.78	3.23	
ST722Exx04	4	3.51	3.96	
ST722Exx05	5	4.24	4.69	
ST722Exx06	6	4.97	5.42	



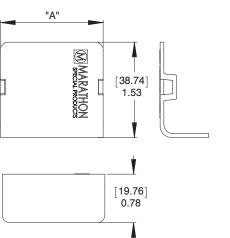
((4) #6 THREAD CUTTING SCREWS PROVIDED)

## Cover Available

- Covers fit all styles available
- Base, thermoplastic
- Flammability UL 94 V-0

Catalog Numbers	Poles	Dimension "A"
C72201	1	.91
C72202	2	1.64
C72203	3	2.37
C72204	4	3.10
C72205	5	3.83
C72206	6	4.56







## Studded Power Feed Thru Terminal Blocks ST715 Series

## Electrical

- 300 volts AC/DC (UL 1059 Class B and C)
- 80 amps
- Wire range is determined by the compression lugs used. Typically accepts #6 - #14 lug sizes.

## **General Specifications**

- Base, black thermoplastic
- #10-32 studs, brass, nickel plated
- Insulator temp-rating: 125°C (257°F) UL RTI
- Flammability, UL 94 V-0
- Mounting: panel (back or slide options)
- 2 pole at .56" center (pole-to-pole)
- Application torque: 35 lbf-in
- Accommodates two hole compression lugs on .625" centers and a max width of .50"

#### Standards

- UL recognized file no. XCFR2.E62806
- cURus recognized file no. XCFR8.E62806
- CE (component IEC 60947-7-1)
- RoHS compliant (all)

#### Accessories

- Hardware see table below for specifications
- Covers consult customer service
- · Printing consult customer service

## See on-line data sheet for:

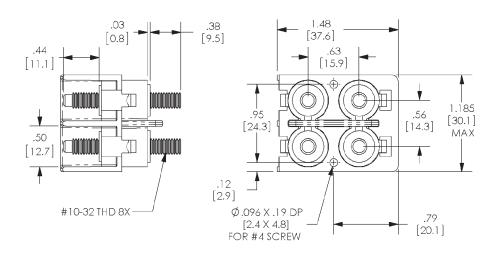
- Panel cut-out specifications
- Detailed product specific information
- · Termination & mounting specifications

## Ordering Code:

Series	Hardware Options
ST715S1902	

Blank – No hardware UH – All nuts shipped bulk AH – All nuts assembled DL – Assembled barrier side, remainder shipped bulk







## Studded Power Feed Thru Terminal Blocks ST723 Series

#### Electrical

- 600 volts AC/DC
- 380 amps
- Short circuit current rating (SCCR) of 10K
- Wire range is determined by the compression lugs used. Typically accepts 500 kcmil - 2/0 AWG lug sizes.

## **General Specifications**

- Base, black thermoplastic
- Studs, brass, nickel plated
- Insulator temp-rating: 125°C (257°F) UL RTI
- Flammability, UL 94 V-0
- Mounting: panel (back mount only)
- 1.56" centers (pole-to-pole)
- Accommodates two hole compression lugs with 1.00" centers and a max width of 1.40"
- Application torque: 192 lbf-in

## Standards

- UL recognized file no. XCFR2.E62806
- cURus recognized file no. XCFR8.E62806
- RoHS compliant

#### Accessories

- Hardware see table below for specifications
- Mounting hardware included (4) #10 screws
- Covers flat covers available (consult customer
- Printing consult factory for custom requests

### See on-line data sheet for:

- Panel cut-out specifications
- Detailed product specific information
- Termination & mounting specifications

## Ordering Code:

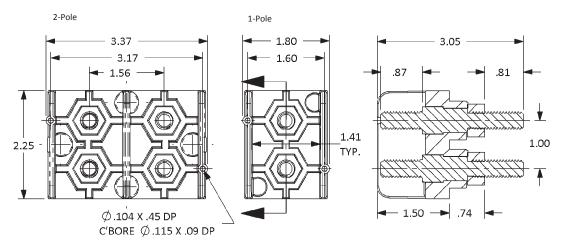
<u> </u>			
Series	Number of Poles	Hardware Options	
	0110103	Орионз	
ST723B38	XX		

01 = 1 Pole02 = 2 Pole Blank – No hardware UH – All nuts shipped bulk

AH – All nuts assembled DL – Assembled barrier side, remainder shipped bulk



## ST723B38xx - General Dimensions



30



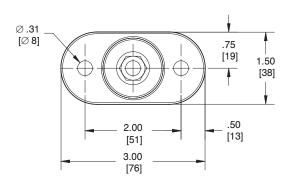
# Single Stud Connection Block ST710 Series

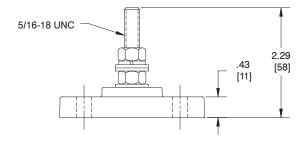
## **General Specifications**

- Base, thermoplastic (available in red or black)
- Temperature rating of 125°C (UL RTI)
- · Hardware, stainless steel
- 300 volt AC/DC
- Recommended mounting screw 1/4"
- Available with two stud sizes: 5/16" or 3/8"
- Designed for two or more wire lugs
- · RoHS compliant

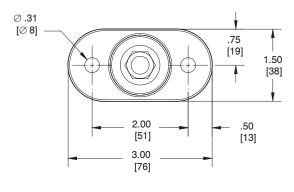


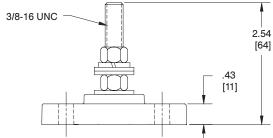
# Catalog # ST 710 31 5/16" Stud





# Catalog # ST 710 38 3/8" Stud







## Motor Terminal Blocks (IEC Style) ST750 and ST755 Series

#### Electrical

- · Designed for delta and wye wiring configurations
- 35 to 560 amps
- 250 1100 volts
- · For use with listed crimp lugs

### **General Specifications**

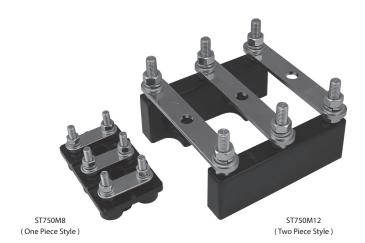
- Base, thermoset polyester, 130°C (UL RTI)
- · Studs and hardware, steel, plated
- Link, copper, nickel plated
- All blocks include links and hardware assembled
- Insulator temp-rating: 130°C (266°F) UL RTI
- Flammability, UL 94 V-0

### Standards

- UR recognized file no. XCFR2.E62806
- cUR recognized file no. XCFR8.E62806 (investigated to CSA 22.2 No. 158)
- CE compliant UL investigated to IEC 60947-7-1, file no. XCHG2.E243117, IEC 60947-7-1
- UL investigated to SANS 1804-2
- · RoHS compliant

## See on-line data sheets for:

- Dimensional drawings
- · Detailed product specific information
- Termination & mounting specifications



			AMPERAGE		VOLTAGE				Overall
Catalog Number	Stud Size	Style	cURus	IEC	cURus	IEC	Sans 1804	Wire Range	Dimensions (L x W x H) mm
ST755M4	M4	One Piece	38	50	300	630	250	#8 - #18 AWG	55 x 33 x 43
ST750M4	M4	One Piece	35	50	1000	1000	1100	#8 - #18 AWG	63 x 37 x 42
ST755M5	M5	One Piece	50	50	600	800	660	#8 - #16 AWG	68 x 40 x 45
ST750M6	M6	One Piece	101	121	1000	1000	1100	#2 - #14 AWG	85 x 50 x 62
ST750M8	M8	One Piece	160	185	1000	1000	1100	2/0 - #12 AWG	112 x 69 x 76
ST755M10	M10	One Piece	185	217	1000	1000	1100	3/0 - #8 AWG	140 x 86 x 91
ST755M12	M12	One Piece	242	271	1000	1000	1100	250 kcmil - #8 AWG	170 x 110 x 97
ST750M12	M12	Two Piece	315	374	1000	1000	1100	400 kcmil - #8 AWG	179 x 167 x 107
ST750M16	M16	Two Piece	560	520	1000	1000	1100	(2) 300 kcmil - (2) #2 AWG	201 x 191 x 133

All blocks include links and hardware assembled



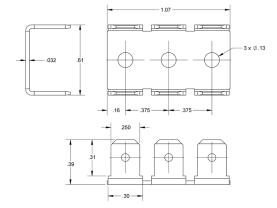
## **Grounding Connector**

## **General Specifications**

- Fits 1/4" electrical quick-connect terminals
- Brass, tin plated RoHS compliant



Catalog # KT375



## **Grounding Lugs**

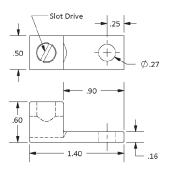
## **General Specifications**

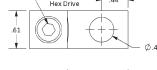
- Connector, high conductive aluminum, tin plated
- Screw head is green ink
- Flexible stranded wire compliant
- UL recognized file No. ZMVV2.E43665
- CSA Certified File No. 63510-25
- RoHS Compliant



Catalog # (Part #)	Wire Range AWG/kcmil	Torque lb-in
	#2 - #3	50
GL02	#4 - #6	45
(9807052)	#8	40
	#10 - #14	35

For hex drive screw, catalog number is GL02IH





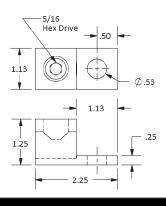


Catalog # (Part #)	Wire Range AWG/kcmil	Torque lb-in
GL20 (9818102)	2/0 - #6	120
	#8	40
	#10 - #14	35

	1.00	
.75		.25
	1.63	4



Catalog #	Wire Range	Torque
(Part #)	AWG/kcmil	lb-in
GL35 (9819830)	350 kcmil - #6	375





## **Heavy Duty Terminal Blocks**

## 1100, 1103P and 1200 Series - Deadfront Type

## Specifications:

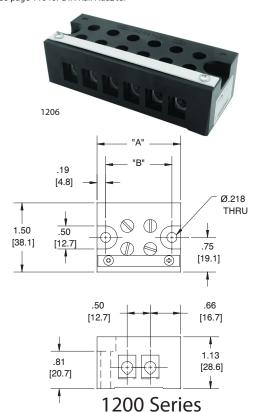
- 65 amps 1100 series
- 70 amps 1103P and 1200 series
- 600 volts AC/DC
- Base, phenolic, 150°C (UL RTI)
- Pressure spring, copper
- · Wire range:
  - 1103P (1) #4 14 AWG CU & (1-2) #10-14 AWG CU
  - 1200 (1) #4 18 AWG CU
- Bare wire range #6 18 AWG CU
- See on-line data sheets for multiple wire information

Catalog #		# of Poles Screws		Dimensions	
				Α	В
1102	11025	2	Brass, Tin Plated	1.69	1.31
1104	11045	4	Brass, Tin Plated	2.50	2.12
1106	1106S	6	Brass, Tin Plated	3.38	3.00
1107	11075	7	Brass, Tin Plated	3.88	3.50
1108	11085	8	Brass, Tin Plated	4.25	3.88
1112	11125	12	Brass, Tin Plated	6.00	5.62
1202		2	Steel, Nickel Plated	1.81	1.44
1204		4	Steel, Nickel Plated	2.81	2.44
1206		6	Steel, Nickel Plated	3.81	3.44

S=Copper Pressure Spring

re Spring mm = dim X 25.4

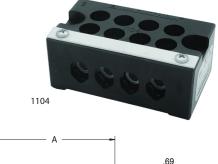
See page 116 for DIN Rail Adapter

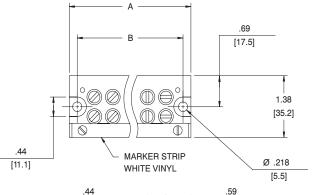


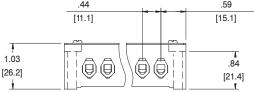
## Standards:

- UL recognized file no. XCFR2.E62806
- CSA certified file no. LR19766
- CE compliant (IEC 60947-7-1)

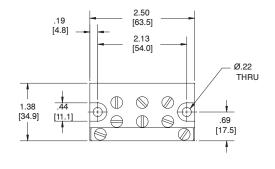
RoHS compliant

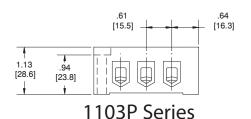






## 1100 Series







## 0987 RZ Series - Deadfront Type

## Specifications:

- 50 amps
- 600 volts AC/DC
- Base, plastic, 125°C (UL RTI)
- · Screws, brass, tin plated
- Connector, copper alloy, nickel plated
- · IP20 touchproof protection
- Wire range:
  - (1) #8 #24 sol/str
  - (2) 12 str
  - (2) 14 str
  - (1) 12 str and (1) 14 str
- .475" centerline spacing

0987 RZ TC 09

0987 RZ TC 10

0987 RZ TC 11

0987 RZ TC 12

· See on-line data sheets for additional information

9

10

11

12

4.28

4.75

5.23

5.70

3.33

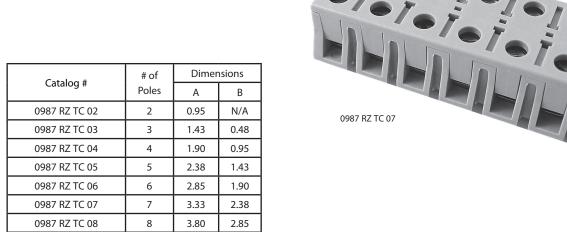
3.80

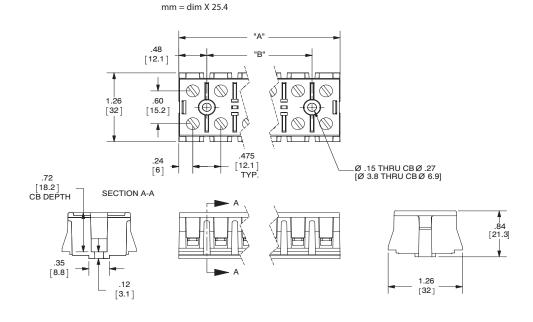
4.28

4.75

## Standards:

- UL recognized file no. XCFR2.E62806
- CSA certified file no. LR19766
- CE compliant (IEC 60947-7-1)
- RoHS compliant





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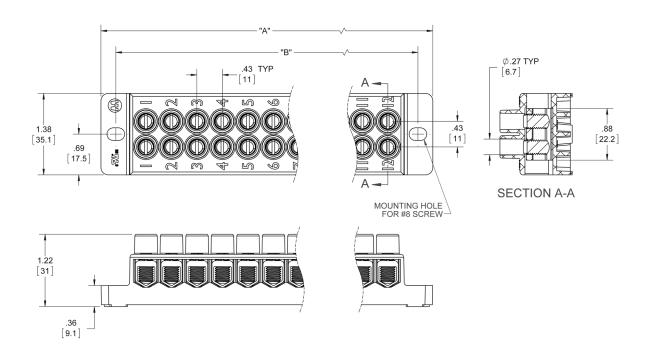
## 885 Series - Deadfront Type

## Specifications:

- 600V, 85 amps
- Base, thermoplastic, 130°C, (UL RTI)
- Available in 1 to 12 terminal positions
- UL and cUL recognized component
- 0.432" centerline spacing
- 16 in lbs force
- Numbered terminal positions
- Accommodates conductor sizes #4 AWG #18 AWG



Catalog #	Lines	DIM "A"±.015 [.38]	DIM "B"±.015 [.38]
885 RZ 01	1	1.524 [38.71]	1.020 [25.91]
885 RZ 02	2	1.956 [49.68]	1.452 [36.88]
885 RZ 03	3	2.388 [60.66]	1.884 [47.85]
885 RZ 04	4	2.820 [71.63]	2.316 [58.83]
885 RZ 05	5	3.252 [82.60]	2.748 [69.80]
885 RZ 06	6	3.684 [93.57]	3.180 [80.77]
885 RZ 07	7	4.116 [104.55]	3.612 [91.74]
885 RZ 08	8	4.548 [115.52]	4.044 [102.72]
885 RZ 09	9	4.980 [126.49]	4.476 [113.69]
885 RZ 10	10	5.412 [137.46]	4.908 [124.66]
885 RZ 11	11	5.844 [148.44]	5.340 [135.64]
885 RZ 12	12	6.276 [159.41]	5.772 [146.61]





Standards:

UL recognized file no. XCFR2.E62806 CSA certified file no. LR19766

CE compliant (IEC 60947-7-1)

RoHS compliant

## 985 GP Series - Deadfront Type

## Specifications:

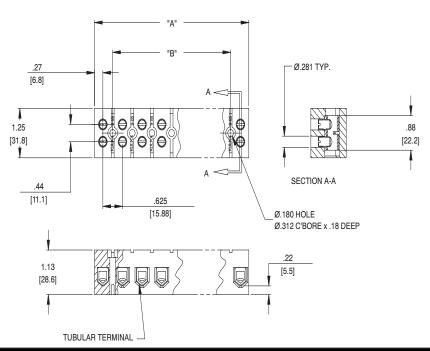
- 85 amps
- 600 volts AC/DC
- Base, phenolic, 150°C (UL RTI)
- Screws, steel, tin plated
- Connector, aluminum, tin plated
- · Wire range:
  - (1) #4 #18 AWG
  - (1-2) #8 AWG
  - (1-4) #10-12 AWG
  - (1-6) #14-16 AWG
  - (1-8) #18
- .625" centerline spacing
- See on-line data sheets for additional information

ation	340	26		
			2	35
	985 GP 06			10

Catalog #	# of	Dime	nsions
Catalog #	Poles	Α	В
985 GP 02	2	1.16	N/A
985 GP 03	3	1.78	0.63
985 GP 04	4	2.41	1.25
985 GP 05	5	3.03	1.88
985 GP 06	6	3.66	2.50
985 GP 07	7	4.28	3.13
985 GP 08	8	4.91	3.75
985 GP 09	9	5.53	4.38
985 GP 10	10	6.16	5.00
985 GP 11	11	6.78	5.63
985 GP 12	12	7.41	6.25

mm = dim X 25.4

See page 116 for DIN Rail Adapter





1500 Series - Barrier Type

## Specifications:

- 75 amps
- 600 volts AC/DC
- Base, phenolic, 150°C (UL RTI)
- Screws, #10-32 phil-slot, brass, nickel plated
- · Connector, brass, nickel plated
- 5/8" (.625") line-to-line spacing
- Bare wire range #10-22 AWG CU
- Accepts lugs w/max width of .50"
- See on-line data sheets for additional information

#### Standards:

- UL recognized file no. XCFR2.E62806
- CSA certified file no. LR19766
- CE compliant (IEC 60947-7-1)
- RoHS compliant





# of	Catalog #					Dimen	sions	Clear	White		
Poles		Catalog #					Α	В	Cover	Cover	
2	1502 MCJ	1502 STD	1502 DJ	1502 DJSV	1502 ST	1502 SC	1502 H	2.00	1.62	CC 1502	CW 1502
4	1504 MCJ	1504 STD	1504 DJ	1504 DJSV	1504 ST	1504 SC	1504 H	3.25	2.88	CC 1504	CW 1504
6	1506 MCJ	1506 STD	1506 DJ	1506 DJSV	1506 ST	1506 SC	1506 H	4.50	4.12	CC 1506	CW 1506
8	1508 MCJ	1508 STD	1508 DJ	1508 DJSV	1508 ST	1508 SC	1508 H	5.75	5.38	CC 1508	CW 1508
12	1512 MCJ	1512 STD	1512 DJ	1512 DJSV	1512 ST	1512 SC	1512 H	8.25	7.88	CC 1512	CW 1512

See page 116 for DIN Rail Adapter

mm = dim X 25.4



Standard Connector with Serrations for Anti-Rotation



Removable Connector with Brass Insert



Removable Connector with Brass Insert, Removable Cover



10-32 Stud, Removable Connector



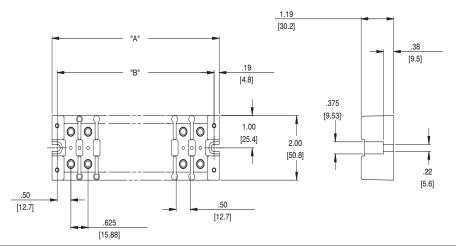
Short Circuiting Bar with Brass Insert, 4 Shorting Pins per Block



Standard Connector with Hinge Cover



Multiple Circuit Jumper





## 1600 Series - Barrier Type

## Specifications:

- 75 amps
- 600 volts AC/DC
- Base, phenolic, 150°C (UL RTI)
- Screws, #10-32 phil-slot, brass, nickel plated
- · Connector, brass, nickel plated
- 21/32" (.656") line-to-line spacing
- Bare wire range #10-22 AWG CU
- Accepts lugs w/max width of .50"
- See on-line data sheets for additional information

### Standards:

- UL recognized file no. XCFR2.E62806
- · CSA certified file no. LR19766
- CE compliant (IEC 60947-7-1)
- · RoHS compliant



1604 H



1606 STD

# of	Catalon #					Dimensions		Clear	White		
Poles		Catalog #					Α	В	Cover	Cover	
2	1602 MCJ	1602 STD	1602 DJ	1602 DJSV	1602 ST	1602 SC	1602 H	2.44	1.78	CC 1602	CW 1602
4	1604 MCJ	1604 STD	1604 DJ	1604 DJSV	1604 ST	1604 SC	1604 H	3.75	3.09	CC 1604	CW 1604
6	1606 MCJ	1606 STD	1606 DJ	1606 DJSV	1606 ST	1606 SC	1606 H	5.06	4.41	CC 1606	CW 1606
8	1608 MCJ	1608 STD	1608 DJ	1608 DJSV	1608 ST	1608 SC	1608 H	6.38	5.72	CC 1608	CW 1608
12	1612 MCJ	1612 STD	1612 DJ	1612 DJSV	1612 ST	1612 SC	1612 H	9.00	8.34	CC 1612	CW 1612

See page 116 for DIN Rail Adapter



Standard Connector with Serrations for Anti-Rotation



Removable Connector with Brass Insert



Removable Connector with Brass Insert, Removable Cover



10-32 Stud, n Removable Connector



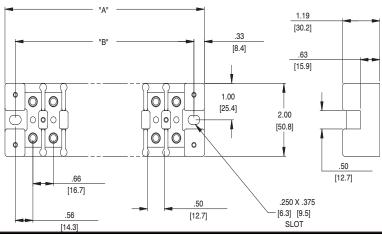
Short Circuiting Bar with Brass Insert, 4 Shorting Pins per Block



Standard Connector with Hinge Cover



Multiple Circuit Jumper





## 1700 Series - Barrier Type

## Specifications:

- 75 amps
- 600 volts AC/DC
- Base, plastic, 125°C (UL RTI)
- Screws, #10-32 phil-slot, brass, nickel plated
- · Connector, brass, nickel plated
- 5/8" (.625") line-to-line spacing
- Bare wire range #10-22 AWG CU
- Accepts lugs w/max width of .54"
- See on-line data sheets for additional information

### Standards:

- UL recognized file no. XCFR2.E62806
- CSA certified file no. LR19766
- CE compliant (IEC 60947-7-1)
- · RoHS compliant

# of	Standard	Standard Short Circuit		ensions	Clear
Poles	Terminal	Terminal	Α	В	Cover
2	1702 STD	1702 SC	2.00	1.64	CC 1702
3	1703 STD	1703 SC	2.63	2.26	CC 1703
4	1704 STD	1704 SC	3.25	2.89	CC 1704
5	1705 STD	1705 SC	3.88	3.51	CC 1705
6	1706 STD	1706 SC	4.50	4.14	CC 1706
7	1707 STD	1707 SC	5.13	4.76	CC 1707
8	1708 STD	1708 SC	5.75	5.39	CC 1708
9	1709 STD	1709 SC	6.38	6.01	CC 1709
10	1710 STD	1710 SC	7.00	6.64	CC 1710
11	1711 STD	1711 SC	7.63	7.26	CC 1711
12	1712 STD	1712 SC	8.25	7.89	CC 1712

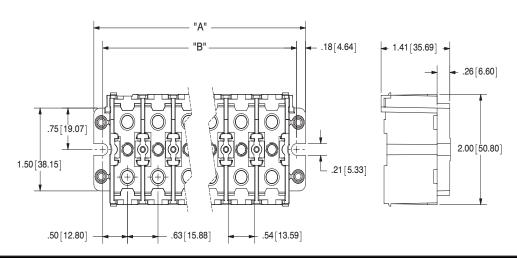




1704 STD

1700 series optional clear cover

- STD = Standard Terminal Connector Plate, 2 Phil-Slot Screws, Center M/S
- SC = Short Circuit Terminal (Pin to be torqued to 5 in-lbs)
- CC = Clear PVC snap on cover, sized to fit and protect





#### General Information:

Double Row Terminal Blocks are available in many line-to-line spacings. Open and closed back designs are available as shown in the table below. Insulator bases are available in both phenolic and thermoplastic material. Each series has many hardware and marking options available.

### Ratings and Standards:

The voltage ratings of terminal blocks are based upon the minimum spacing between electrically conductive parts line-to-line through air and over surface and line-to-ground through air and over surface.

Class A:

Service, including deadfront switchboards, panel boards and service equipment.

Class B

Commercial appliances including business equipment and electronic data processing equipment.

Class C:

Industrial, general

Spacing Requirements (in inches)						
	Voltage	Through Air	Over Surface			
	51-150	0.500	0.750			
Class A	151-300	0.750	1.250			
	301-600	1.000	2.000			
	51-150	0.063	0.063			
Class B	151-300	0.094	0.094			
	301-600	0.375	0.500			
	51-150	0.125	0.250			
Class C	151-300	0.250	0.375			
	301-600	0.375	0.500			

### **Reference Chart:**

Amps	Voltage Rating¹		Series	Catalog	~	Bare- Wire	Screw	Inches	# of	Features
711103	Class B	Class C	Series	Page #	Page #   Material	Range <sup>2</sup>	Size	L to L	Lines	reactives
30	600	600	621 RZ	41	Plastic	#14-22	6-32	.437	1-30	Closed Back
20	300	150	670A RZ	42	Plastic	#12-22	6-32	.375	1-30	Closed Back
30	300	150	671 RZ	43	Plastic	#14-22	6-32	.437	1-30	Closed Back
30	600	600	672 RZ	44	Plastic	#12-14	8-32	.562	1-24	Closed Back
70	600	600	604	45	Phenolic	#10-14	12-32	.875	1-8	Open Back <sup>1</sup>
90	600	600	605	46	Phenolic	#10-14	1/4-28	1.125	1-6	Open Back 1
20	250	N/A	670A GP (100)	47	Phenolic	#12-22	6-32	.375	1-36	Closed Back
30	300	150	671 GP (200)	48	Phenolic	#14-22	6-32	.437	1-30	Closed Back
30	N/A	600	672 GP (300)	49	Phenolic	#10-14	8-32	.562	1-24	Closed Back
30	N/A	600	400	50	Phenolic	#10-22	10-32	.687	1-12	Closed Back
5	300	N/A	410	51	Phenolic	#18-20	2-56	.250	1-23	Open Back 1
15	300	300	600	52	Phenolic	#14-22	5-40	.375	1-22	Open Back <sup>1</sup>
15	300	300	600A	53	Phenolic	#12-22	6-32	.375	1-22	Open Back <sup>1</sup>
20	300	300	601	54	Phenolic	#12-22	6-32	.437	1-23	Open Back <sup>1</sup>
20	N/A	150	801	54	Phenolic	#10	6-32	.437	1-23	Open Back <sup>1</sup>
30	300	300	602	55	Phenolic	#10-18	8-32	.562	1-26	Open Back <sup>1</sup>
30	N/A	150	802	55	Phenolic	#10	8-32	.562	1-26	Open Back <sup>1</sup>
50	600	600	603	56	Phenolic	#10-16	10-32	.687	1-12	Open Back <sup>1</sup>

<sup>&</sup>lt;sup>1</sup>Open back terminal blocks require an insulator strip to achieve voltage rating.

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<sup>&</sup>lt;sup>2</sup>Wire Range for Bare (unprepared) only. Prepared wire range (used with crimp type ring, fork or spade terminals) is dependent on the size of the crimp terminal applied and must not exceed the Amp rating specified.



## 621 RZ Series

## Specifications:

- 30 amps
- 600 volts Class B/C
- Base, thermoplastic, 125°C (UL RTI)
- Screws, steel, #6-32 phil-slot
- · Terminals, plated brass
- Closed back
- 1-30 poles at 7/16" centers
- Accepts lugs w/max width of .33"
- Bare wire range #14-#22 AWG

	ı			
Catalog #	# of	Dimer	isions	
	Poles	А	В	
621 RZ 01	1	1.19	0.88	
621 RZ 02	2	1.62	1.31	
621 RZ 03	3	2.06	1.75	
621 RZ 04	4	2.50	2.19	
621 RZ 05	5	2.94	2.63	
621 RZ 06	6	3.37	3.06	
621 RZ 07	7	3.81	3.50	
621 RZ 08	8	4.25	3.94	
621 RZ 09	9	4.69	4.38	
621 RZ 10	10	5.12	4.81	
621 RZ 11	11	5.56	5.25	
621 RZ 12	12	6.00	5.69	
621 RZ 13	13	6.44	6.13	
621 RZ 14	14	6.87	6.56	
621 RZ 15	15	7.31	7.00	
621 RZ 16	16	7.75	7.44	
621 RZ 17	17	8.19	7.88	
621 RZ 18	18	8.62	8.31	
621 RZ 19	19	9.06	8.75	
621 RZ 20	20	9.50	9.19	
621 RZ 21	21	9.94	9.63	
621 RZ 22	22	10.37	10.06	
621 RZ 23	23	10.81	10.50	
621 RZ 24	24	11.25	10.94	
621 RZ 25	25	11.69	11.38	
621 RZ 26	26	12.12	11.81	
621 RZ 27	27	12.56	12.25	
621 RZ 28	28	13.00	12.69	
621 RZ 29	29	13.44	13.13	
621 RZ 30	30	13.87	13.56	
mm=dim X 25.4				

mm=dim X 25.4

### Standards:

- UL recognized file no. XCFR2.E62806
- CSA certified file no. LR19766
- CE compliant (IEC 60947-7-1)
- RoHS compliant



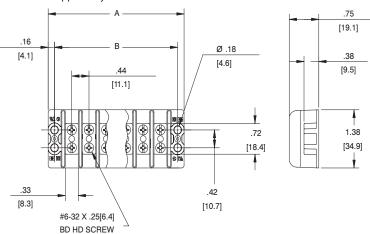
#### **Hardware Options:**

(Hardware options may affect ratings - consult Customer Service)

Catalog	Product Description	Page Reference
KT37	Full Quick Connect (0° Flat)	Neierence
	` '	
KT38	Full Quick Connect (45° Bend)	
KT39	Full Quick Connect (90° Bend)	See Page 73
KT43	Half Quick Connect (0° Flat)	see rage 73
KT44	Half Quick Connect (45° Bend)	
KT45	Half Quick Connect (90° Bend)	
ST	Full Solder	Coo Domo 77
3/4 ST	Half Solder	See Page 77
J 621	Line-to-Line Jumper	
601RJ(S)	Multiple Position Jumper	See Page 74
3765	SEMS Pressure Saddle Screw 1	
3767	SEMS Pressure Saddle Screw with External Tooth Lock Washer <sup>1</sup>	Consult C/S
PSB	Phil-Slot Brass Screw	Consult C/S

Quick Connects: .032" x .250"

<sup>&</sup>lt;sup>1</sup>Bare wire Range with SEMS screw of #12-22 AWG, Stranded Copper Only





## 670A RZ Series

## Specifications:

- 20 amps
- 150 volts Class-C, 300V Class B
- Base, thermoplastic, 130°C (UL RTI)
- Screws, steel, #6-32 phil-slot
- · Terminals, plated brass
- · Closed back
- 1-30 poles at 3/8" centers
- Accepts lugs w/max width of .31"
- Bare wire range #12-#22 AWG

### Standards:

- UL recognized file no. XCFR2.E47811
- CSA certified file no. LR19766
- CE compliant (IEC 60947-7-1)
- RoHS compliant



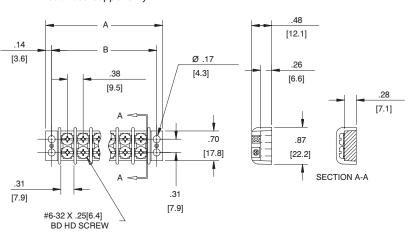
#### **Hardware Options:**

(Hardware options may affect ratings - consult Customer Service)

Catalog #	Product Description	Page Reference
KT19	Full Quick Connect (0° Flat)	
KT20	Full Quick Connect (45° Bend)	
KT21	Full Quick Connect (90° Bend)	Can mana 72
KT25	Half Quick Connect (0° Flat)	See page 73
KT26	Half Quick Connect (45° Bend)	
KT27	Half Quick Connect (90° Bend)	
ST	Full Solder	
3/4 ST	Half Solder	See page 77
Υ	Feed Thru Solder (.312)	
J 600	Line-to-Line Jumper	
600RJ(S)	Multiple Position Jumper	See page 74
3865	3865 SEMS Pressure Saddle Screw <sup>1</sup>	
PSB	Phil-Slot Brass Screw	Consult C/S

Quick Connects: .020" x .187"

<sup>&</sup>lt;sup>1</sup> Bare wire Range with SEMS screw of #14-22 AWG, Stranded Copper Only



Catalog #	# of	Dimer	nsions
Catalog #	Poles	А	В
670A RZ 01	1	1.03	0.75
670A RZ 02	2	1.41	1.13
670A RZ 03	3	1.78	1.50
670A RZ 04	4	2.16	1.88
670A RZ 05	5	2.53	2.25
670A RZ 06	6	2.91	2.63
670A RZ 07	7	3.28	3.00
670A RZ 08	8	3.66	3.38
670A RZ 09	9	4.03	3.75
670A RZ 10	10	4.41	4.13
670A RZ 11	11	4.78	4.50
670A RZ 12	12	5.16	4.88
670A RZ 13	13	5.53	5.25
670A RZ 14	14	5.91	5.63
670A RZ 15	15	6.28	6.00
670A RZ 16	16	6.66	6.38
670A RZ 17	17	7.03	6.75
670A RZ 18	18	7.41	7.13
670A RZ 19	19	7.78	7.50
670A RZ 20	20	8.16	7.88
670A RZ 21	21	8.53	8.25
670A RZ 22	22	8.91	8.63
670A RZ 23	23	9.28	9.00
670A RZ 24	24	9.66	9.38
670A RZ 25	25	10.03	9.75
670A RZ 26	26	10.41	10.13
670A RZ 27	27	10.78	10.50
670A RZ 28	28	11.16	10.88
670A RZ 29	29	11.53	11.25
670A RZ 30	30	11.91	11.63



## 671 RZ Series

## Specifications:

- 30 amps
- 150 volts Class-C, 300V Class B
- Base, thermoplastic, 125°C (UL RTI)
- Screws, steel, #6-32 phil-slot
- Terminals, plated brass
- Closed back
- 1-30 poles at 7/16" centers
- Accepts lugs w/max width of .33"
- Bare wire range #14-#22 AWG

#### Standards:

- UL recognized file no. XCFR2.E62806
- CSA certified file no. LR19766
- CE compliant (IEC 60947-7-1)
- RoHS compliant



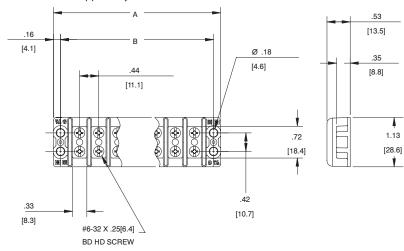
#### **Hardware Options:**

(Hardware options may affect ratings - consult Customer Service)

Catalog #	Product Description	Page Reference	
KT37	Full Quick Connect (0° Flat)		
KT38	Full Quick Connect (45° Bend)		
KT39	Full Quick Connect (90° Bend)	Con mana 72	
KT43	Half Quick Connect (0° Flat)	See page 73	
KT44	Half Quick Connect (45° Bend)		
KT45	Half Quick Connect (90° Bend)		
ST	Full Solder	Con 110 177	
3/4 ST	Half Solder	See page 77	
J 601	Line-to-Line Jumper		
601RJ(S)	Multiple Position Jumper	See page 74	
3765	SEMS Pressure Saddle Screw <sup>1</sup>		
3767	SEMS Pressure Saddle Screw with External Tooth Lock Washer <sup>1</sup>	Consult C/S	
PSB	Phil-Slot Brass Screw	Consult C/S	

Quick Connects: .032" x .250"

<sup>&</sup>lt;sup>1</sup> Bare wire Range with SEMS screw of #12-22 AWG, Stranded Copper Only



#### **Dimensions** # of Catalog # **Poles** В 671 RZ 01 1.19 0.88 1 671 RZ 02 2 1.62 1.31 3 671 RZ 03 2.06 1.75 671 RZ 04 4 2.50 2.19 671 RZ 05 5 2.94 2.63 671 RZ 06 6 3.37 3.06 671 RZ 07 7 3.81 3.50 671 RZ 08 8 4.25 3.94 671 RZ 09 9 4.69 4.38 10 671 RZ 10 5.12 4.81 671 RZ 11 11 5.56 5.25 671 RZ 12 12 6.00 5.69 671 RZ 13 13 6.44 6.13 671 RZ 14 14 6.87 6.56 15 671 RZ 15 7.31 7.00 671 RZ 16 16 7.75 7.44 671 RZ 17 17 8.19 7.88 671 RZ 18 18 8.62 8.31 671 RZ 19 8.75 19 9.06 671 RZ 20 20 9.50 9.19 671 RZ 21 21 9.94 9.63 671 RZ 22 22 10.37 10.06 671 RZ 23 23 10.81 10.50 671 RZ 24 24 11.25 10.94 671 RZ 25 25 11.69 11.38 671 RZ 26 26 12.12 11.81 671 RZ 27 27 12.56 12.25 671 RZ 28 28 13.00 12.69 671 RZ 29 29 13.44 13.13 671 RZ 30 13.87 13.56



## 672 RZ Series

## Specifications:

- 30 amps
- 600 volts AC/DC, Class B/C
- Base, thermoplastic, 125°C (UL RTI)
- Terminals, plated brass
- Screws, steel, #8-32 phil-slot
- Closed back
- 1-24 poles at 9/16" centers
- Accepts lugs w/max width of .41"
- Bare wire range #12-#14 AWG

Catalog #	# of	Dime	Dimensions		
	Poles	Α	В		
672 RZ 01	1	1.54	1.13		
672 RZ 02	2	2.10	1.69		
672 RZ 03	3	2.66	2.25		
672 RZ 04	4	3.22	2.81		
672 RZ 05	5	3.79	3.38		
672 RZ 06	6	4.35	3.94		
672 RZ 07	7	4.91	4.50		
672 RZ 08	8	5.47	5.06		
672 RZ 09	9	6.04	5.63		
672 RZ 10	10	6.60	6.19		
672 RZ 11	11	7.16	6.75		
672 RZ 12	12	7.72	7.31		
672 RZ 13	13	8.29	7.88		
672 RZ 14	14	8.85	8.44		
672 RZ 15	15	9.41	9.00		
672 RZ 16	16	9.97	9.56		
672 RZ 17	17	10.54	10.13		
672 RZ 18	18	11.10	10.69		
672 RZ 19	19	11.66	11.25		
672 RZ 20	20	12.22	11.81		
672 RZ 21	21	12.79	12.38		
672 RZ 22	22	13.35	12.94		
672 RZ 23	23	13.91	13.50		
672 RZ 24	24	14.47	14.06		

mm=dim X 25.4

### Standards:

- UL recognized, file no. XCFR2.E47811
- CSA certified, file no. LR19766
- CE compliant (IEC 60947-7-1)
- RoHS compliant



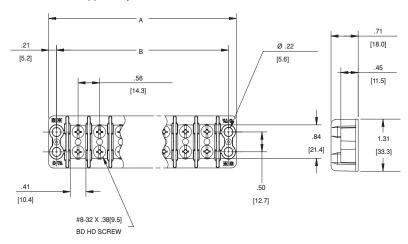
### **Hardware Options:**

(Hardware options may affect ratings - consult Customer Service)

Catalog #	Product Description	Page Reference	
KT55	Full Quick Connect (0° Flat)		
KT56	Full Quick Connect (45° Bend)		
KT57	Full Quick Connect (90° Bend)	Saa waa 72	
KT61	Half Quick Connect (0° Flat)	See page 73	
KT62	Half Quick Connect (45° Bend)		
KT63	Half Quick Connect (90° Bend)		
ST	Full Solder	Coo. 110 110 77	
3/4 ST	Half Solder	See page 77	
J 602	Line-to-Line Jumper	See 222 74	
3786	SEMS Pressure Saddle Screw <sup>1</sup>	See page 74	
3787	SEMS Pressure Saddle Screw with External Tooth Lock Washer <sup>1</sup>	Consult C/S	
PSB	Phil-Slot Brass Screw	Consult C/S	

Quick Connects: .032" x .250"

<sup>&</sup>lt;sup>1</sup> Bare wire Range with SEMS screw of #10-22 AWG, Stranded Copper Only





## 604 GP Series

## Specifications:

- A Kulka<sup>®</sup> Brand
- 70 amps
- 600 volts AC/DC, Class B/C
- Base, phenolic, 150°C (UL RTI)
- JJ (GDI-30F) material available
- Terminals, plated brass
- Screws, brass, #12-32 phil-slot
- Open back design (insulator strip required for voltage rating - see page 68)
- 1-8 poles at 7/8" centers
- Accepts lugs w/max width of .58"
- Bare wire range #10-#12 AWG

### Standards:

- UL recognized, file no. XCFR2.E47811
- CSA certified, file no. LR19766
- CE compliant (IEC 60947-7-1)
- RoHS compliant

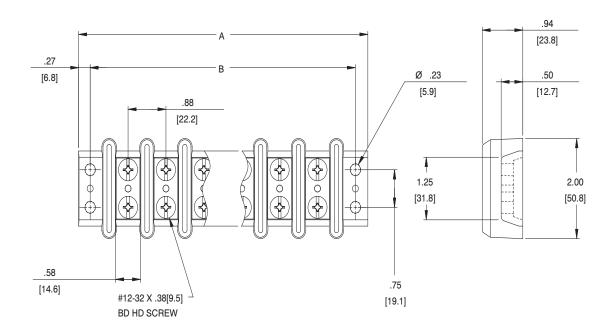


### **Hardware Options:**

(Hardware options may affect ratings - consult Customer Service)

Catalog #	Product Description	Page Reference
J 604	Line-to-Line Jumper	See Page 74
2402	Stud 10-32 Brass (.43 H) Nuts included	See Page 75

Catalog #	# of	Dimensions	
Catalog #	Poles	Α	В
604 GP 01 PSB	1	2.28	1.75
604 GP 02 PSB	2	3.16	2.63
604 GP 03 PSB	3	4.03	3.50
604 GP 04 PSB	4	4.91	4.38
604 GP 05 PSB	5	5.78	5.25
604 GP 06 PSB	6	6.66	6.13
604 GP 07 PSB	7	7.53	7.00
604 GP 08 PSB	8	8.41	7.88





## 605 GP Series

## Specifications:

- A Kulka<sup>®</sup> Brand
- 90 amps
- 600 volts AC/DC, Class B/C
- Base, phenolic, 150°C (UL RTI)
- JJ (GDI-30F) material available
- Terminals, plated brass
- Screws, brass, 1/4-28 slotted
- Open back design (insulator strip required for voltage rating - see page 68)
- 1-6 poles at 1 1/8" centers
- Accepts lugs w/max width of .67"
- Bare wire range #10-#14 AWG

## Standards:

- UL recognized, file no. XCFR2.E47811
- CSA certified, file no. LR19766
- CE compliant (IEC 60947-7-1)
- RoHS compliant



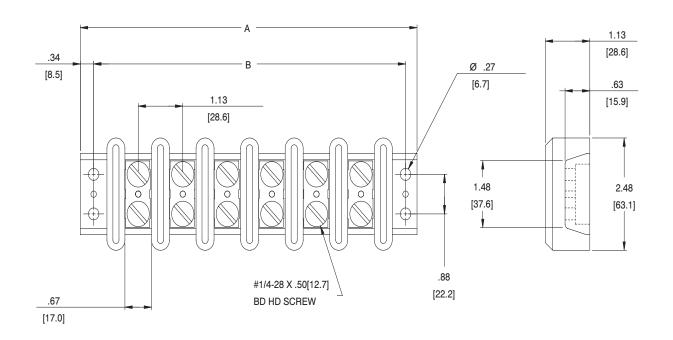
Catalog #	# of	Dimensions		
Catalog #	Poles	Α	В	
605 GP 01 SLB	1	2.88	2.25	
605 GP 02 SLB	2	4.00	3.38	
605 GP 03 SLB	3	5.13	4.50	
605 GP 04 SLB	4	6.25	5.63	
605 GP 05 SLB	5	7.38	6.75	
605 GP 06 SLB	6	8.50	7.88	

mm=dim X 25.4

### **Hardware Options:**

(Hardware options may affect ratings - consult Customer Service)

Catalog #	Product Description	Page Reference
J 605	Line-to-Line Jumper	See Page 74
2502	Stud 1/4-28 Brass (.750 H) Nuts included	See Page 75
PSB	Phil-Slot Brass Screw	Consult C/S





## 670A GP Series (100 Series)

## Specifications:

- A Kulka<sup>®</sup> Brand
- 20 amps
- 250 volts, Class B
- Base, phenolic, 150°C (UL RTI)
- · Terminals, plated brass
- Screws, steel, #6-32 phil-slot
- Closed back
- 1-36 poles at 3/8" centers
- Accepts lugs w/max width of .30"
- Bare wire range #12-#22 AWG

#### Standards:

- UL recognized file no. XCFR2.E62806
- CSA certified file no. LR19766
- CE compliant (IEC 60947-7-1)
- RoHS compliant

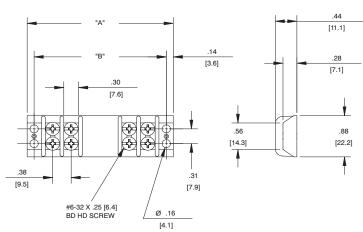


### **Hardware Options:**

(Hardware options may affect ratings - consult Customer Service)

Catalog #	Product Description	Page Reference
KT19	Full Quick Connect (0° Flat)	
KT20	Full Quick Connect (45° Bend)	
KT21	Full Quick Connect (90° Bend)	C
KT25	Half Quick Connect (0° Flat)	See page 73
KT26	Half Quick Connect (45° Bend)	
KT27	Half Quick Connect (90° Bend)	
ST	Full Solder	
3/4 ST	Half Solder	C
Υ	Feed Thru Solder (.312)	See page 77
YSY	Feed Thru Solder (.500)	
J 600	Line-to-Line Jumper	Can mana 74
600RJ(S)	Multiple Position Jumper	See page 74
3000	Feed Thru Wire Wrap (.593)	Consult C/S
PSB	Phil-Slot Brass Screw	Consult C/S

Quick Connects: .020" x .110"



#### **Dimensions** Catalog Alternate # of Catalog # **Poles** 670A GP 01 101 1.03 0.75 670A GP 02 102 1.41 1.13 2 670A GP 03 103 1.78 1.50 670A GP 04 104 4 2.16 1.88 670A GP 05 105 5 2.53 2.25 670A GP 06 106 6 2.91 2.63 670A GP 07 107 7 3.28 3.00 108 8 670A GP 08 3.66 3.38 670A GP 09 109 9 4.03 3.75 670A GP 10 110 10 4.41 4.13 670A GP 11 111 11 4.78 4.50 670A GP 12 112 12 5.16 4.88 670A GP 13 113 13 5.53 5.25 670A GP 14 114 14 5.91 5.63 670A GP 15 115 15 6.28 6.00 670A GP 16 116 16 6.66 6.38 670A GP 17 117 17 7.03 6.75 670A GP 18 18 7.13 118 7.41 670A GP 19 119 19 7.78 7.50 670A GP 20 120 20 8.16 7.88 670A GP 21 121 21 8.53 670A GP 22 122 22 8.91 8.63 670A GP 23 123 23 9.28 9.00 670A GP 24 124 24 9.66 9.38 25 10.03 9.75 670A GP 25 125 670A GP 26 10.41 10.13 126 26 670A GP 27 127 27 10.78 10.50 670A GP 28 128 28 11.16 10.88 29 670A GP 29 129 11.53 11.25 670A GP 30 130 30 11.91 11.63 670A GP 31 131 31 12.28 12.00 670A GP 32 132 32 12.66 12.38 670A GP 33 133 33 13.03 12.75 670A GP 34 134 34 13.41 13.13 670A GP 35 135 35 13.78 13.50 670A GP 36 14.16 13.88 136



## 671 GP Series (200 Series)

## Specifications:

- A Kulka<sup>®</sup> Brand
- 30 amps
- 150 volts Class C, 300 volts Class B
- Base, phenolic, 150°C (UL RTI)
- Screws, steel, #6-32 phil-slot
- Terminals, plated brass
- Closed back
- 1-30 poles at 7/16" centers
- Accepts lugs w/max width of .34"
- Bare wire range #12-#22 AWG

### Standards:

- UL recognized file no. XCFR2.E62806
- CSA certified file no. LR19766
- CE compliant (IEC 60947-7-1)
- RoHS compliant



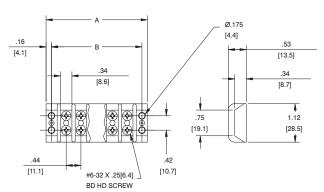
#### **Hardware Options:**

(Hardware options may affect ratings - consult Customer Service)

Catalog #	Product Description	Page Reference
KT37	Full Quick Connect (0° Flat)	
KT38	Full Quick Connect (45° Bend)	
KT39	Full Quick Connect (90° Bend)	
KT43	Half Quick Connect (0° Flat)	See page 73
KT44	Half Quick Connect (45° Bend)	
KT45	Half Quick Connect (90° Bend)	
ST	Full Solder	
3/4 ST	Half Solder	
Υ	Feed Thru Solder (.437)	See page 77
YSY	Feed Thru Solder (.625)	
J 601	Line-to-Line Jumper	
601RJ(S)	Multiple Position Jumper	See page 74
3765	SEMS Pressure Saddle Screw	
3767	SEMS Pressure Saddle Screw	
	with External Tooth Lock	Consult C/S
	Washer <sup>1</sup>	
4000	Feed Thru Wire Wrap (.640)	Consult C/S
PSB	Phil-Slot Brass Screw	Consult C/S

Quick Connects: .032" x .250"

<sup>&</sup>lt;sup>1</sup> Bare wire Range with SEMS screw of #12-22 AWG, Stranded Copper Only



Catalog	Alternate	# of	Dimei	nsions
#	Catalog #	# OI Poles	A	В
671 GP 01	201	1	1.19	0.88
671 GP 02	202	2	1.62	1.31
671 GP 03	203	3	2.06	1.75
671 GP 04	204	4	2.50	2.19
671 GP 05	205	5	2.94	2.63
671 GP 06	206	6	3.37	3.06
671 GP 07	207	7	3.81	3.50
671 GP 08	208	8	4.25	3.94
671 GP 09	209	9	4.69	4.38
671 GP 10	210	10	5.12	4.81
671 GP 11	211	11	5.56	5.25
671 GP 12	212	12	6.00	5.69
671 GP 13	213	13	6.44	6.13
671 GP 14	214	14	6.87	6.56
671 GP 15	215	15	7.31	7.00
671 GP 16	216	16	7.75	7.44
671 GP 17	217	17	8.19	7.88
671 GP 18	218	18	8.62	8.31
671 GP 19	219	19	9.06	8.75
671 GP 20	220	20	9.50	9.19
671 GP 21	221	21	9.94	9.63
671 GP 22	222	22	10.37	10.06
671 GP 23	223	23	10.81	10.50
671 GP 24	224	24	11.25	10.94
671 GP 25	225	25	11.69	11.38
671 GP 26	226	26	12.12	11.81
671 GP 27	227	27	12.56	12.25
671 GP 28	228	28	13.00	12.69
671 GP 29	229	29	13.44	13.13
671 GP 30	230	30	13.87	13.56



## 672 GP Series (300 Series)

## Specifications:

- A Kulka<sup>®</sup> Brand
- 30 amps
- 600 volts AC/DC, Class C
- Base, phenolic, 150°C (UL RTI)
- Terminals, plated brass
- Screws, steel, #8-32 phil-slot
- Closed back
- 1-24 poles at 9/16" centers
- Accepts lugs w/max width of .42"
- Bare wire range #10-#14 AWG

### Standards:

- UL recognized, file no. XCFR2.E62806
- CSA certified, file no. LR19766
- CE compliant (IEC 60947-7-1)
- RoHS compliant



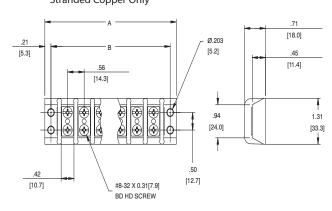
#### **Hardware Options:**

(Hardware options may affect ratings - consult Customer Service)

Catalog #	Product Description	Page Reference
KT55	Full Quick Connect (0° Flat)	
KT56	Full Quick Connect (45° Bend)	
KT57	Full Quick Connect (90° Bend)	Can man 72
KT61	Half Quick Connect (0° Flat)	See page 73
KT62	Half Quick Connect (45° Bend)	
KT63	Half Quick Connect (90° Bend)	
ST	Full Solder	
3/4 ST	Half Solder	Can man 77
Υ	Feed Thru Solder (.437)	See page 77
YSY	Feed Thru Solder (.625)	
J 602	Line-to-Line Jumper	See 22.2.74
3786	SEMS Pressure Saddle Screw <sup>1</sup>	See page 74
SPSE	SEMS Pressure Saddle Screw with External Tooth Lock Washer <sup>1</sup>	Consult C/S
LWW	Feed Thru Wire Wrap (1.00)	Consult C/S
PSB	Phil-Slot Brass Screw	Consult C/S

Quick Connects: .032" x .250"

<sup>&</sup>lt;sup>1</sup> Bare wire Range with SEMS screw of #10-22 AWG, Stranded Copper Only



				,
Catalog	Alternate	# of	Dime	nsions
#	Catalog #	Poles	Α	В
672 GP 01	301	1	1.54	1.13
672 GP 02	302	2	2.10	1.69
672 GP 03	303	3	2.66	2.25
672 GP 04	304	4	3.22	2.81
672 GP 05	305	5	3.79	3.38
672 GP 06	306	6	4.35	3.94
672 GP 07	307	7	4.91	4.50
672 GP 08	308	8	5.47	5.06
672 GP 09	309	9	6.04	5.63
672 GP 10	310	10	6.60	6.19
672 GP 11	311	11	7.16	6.75
672 GP 12	312	12	7.72	7.31
672 GP 13	313	13	8.29	7.88
672 GP 14	314	14	8.85	8.44
672 GP 15	315	15	9.41	9.00
672 GP 16	316	16	9.97	9.56
672 GP 17	317	17	10.54	10.13
672 GP 18	318	18	11.10	10.69
672 GP 19	319	19	11.66	11.25
672 GP 20	320	20	12.22	11.81
672 GP 21	321	21	12.79	12.38
672 GP 22	322	22	13.35	12.94
672 GP 23	323	23	13.91	13.50
672 GP 24	324	24	14.47	14.06



## 400 Series

## Specifications:

- 30 amps
- 600 volts AC/DC, Class C
- Base, phenolic, 150°C (UL RTI)
- Terminals, plated brass
- Screws, steel, #10-32 phil-slot
- Closed back
- 1-12 poles at 11/16" centers
- Accepts lugs w/max width of .47"
- Bare wire range #10-#22 AWG

### Standards:

- UL recognized, file no. XCFR2.E62806
- CSA certified, file no. LR19766
- CE compliant (IEC 60947-7-1)
- RoHS compliant



Catalog	# of	Dime	ensions
#	Poles	Α	В
401	1	1.81	1.38
402	2	2.50	2.06
403	3	3.19	2.75
404	4	3.88	3.44
405	5	4.56	4.12
406	6	5.25	4.81
407	7	5.94	5.50
408	8	6.62	6.19
409	9	7.31	6.88
410	10	8.00	7.56
411	11	8.68	8.25
412	12	9.37	8.94

mm=dim X 25.4

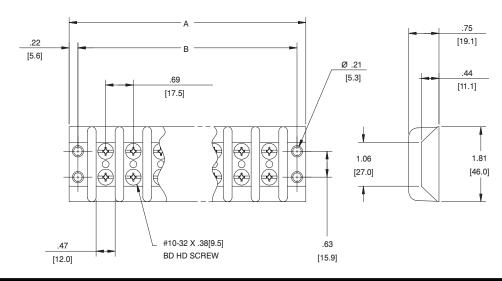
### **Hardware Options:**

(Hardware options may affect ratings - consult Customer Service)

	<u> </u>		
Catalog #	Product Page Description Referer		
KT67	Full Quick Connect (0° Flat)		
KT68	Full Quick Connect (45° Bend)		
KT69	Full Quick Connect (90° Bend)	See page 73	
KT64	Half Quick Connect (0° Flat)		
KT65	Half Quick Connect (45° Bend)		
KT66	Half Quick Connect (90° Bend)	1	
J 603	Line-to-Line Jumper	See page 74	
SPSE	SEMS Pressure Saddle Screw <sup>1</sup>	Consult C/S	
PSB	Phil-Slot Brass Screw	Consult C/S	

Quick Connects: .032" x .250"

<sup>&</sup>lt;sup>1</sup> Bare wire Range with SEMS screw of #10-22 AWG, Stranded Copper Only





## 410 GP Series

## Specifications:

- A Kulka<sup>®</sup> Brand
- 5 amps
- 300 volts AC/DC, Class B
- Base, phenolic, 150°C (UL RTI)
- Terminals, plated brass
- Screws, brass, #2-56 phil-slot
- Open back design (insulator strip required for voltage rating - see page 112)
- 1-23 poles at 1/4" centers
- Accepts lugs w/max width of .19"
- Bare wire range #18-#20 AWG

#### Standards:

- UL recognized, file no. XCFR2.E47811
- CSA certified, file no. LR19766
- CE compliant (IEC 60947-7-1)
- RoHS compliant



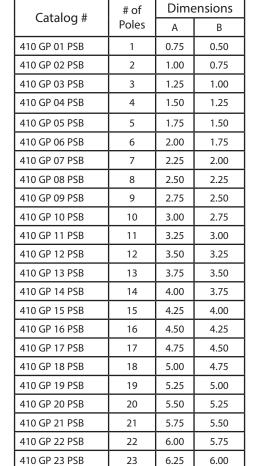
410 GP 06 PSB

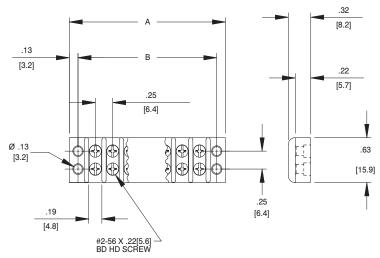
## Hardware Options:

(Hardware options may affect ratings - consult Customer Service)

Catalog #	Product Description	Page Reference	
ST	Full Solder		
3/4 ST	Half Solder See pag		
Υ	Feed Thru Solder (.437)	Solder (.437)	
J 410	Line-to-Line Jumper	See page 74	
1921	Printed Circuit Pin (.109) Consult		

Quick Connects: .020" x .110"







## 600 GP Series

## Specifications:

- A Kulka Brand
- 15 amps
- 300 volts AC/DC, Class B/C
- Base, phenolic, 150°C (UL RTI)
- Terminals, plated brass
- Screws, brass, #5-40 phil-slot
- Open Back Design (insulator strip required for voltage rating - see page 68)
- 1-22 poles at 3/8" centers
- Accepts lugs w/max width of .30"
- Bare wire range #14-#22 AWG

Catalog #	# of	Dimensions		
Catalog #	Poles	Α	В	
600 GP 01 PSB	1	1.03	0.75	
600 GP 02 PSB	2	1.41	1.13	
600 GP 03 PSB	3	1.78	1.50	
600 GP 04 PSB	4	2.16	1.88	
600 GP 05 PSB	5	2.53	2.25	
600 GP 06 PSB	6	2.91	2.63	
600 GP 07 PSB	7	3.28	3.00	
600 GP 08 PSB	8	3.66	3.38	
600 GP 09 PSB	9	4.03	3.75	
600 GP 10 PSB	10	4.41	4.13	
600 GP 11 PSB	11	4.78	4.50	
600 GP 12 PSB	12	5.16	4.88	
600 GP 13 PSB	13	5.53	5.25	
600 GP 14 PSB	14	5.91	5.63	
600 GP 15 PSB	15	6.28	6.00	
600 GP 16 PSB	16	6.66	6.38	
600 GP 17 PSB	17	7.03	6.75	
600 GP 18 PSB	18	7.41	7.13	
600 GP 19 PSB	19	7.78	7.50	
600 GP 20 PSB	20	8.16	7.88	
600 GP 21 PSB	21	8.53	8.25	
600 GP 22 PSB	22	8.91	8.63	

mm=dim X 25.4

### Standards:

- UL recognized, file no. XCFR2.E47811
- CSA certified, file no. LR19766
- CE compliant (IEC 60947-7-1)
- RoHS compliant

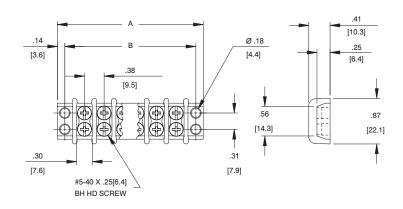


#### **Hardware Options:**

(Hardware options may affect ratings - consult Customer Service)

3			
Catalog #	Product Description	Page Reference	
KT19	Full Quick Connect (0° Flat)		
KT20	Full Quick Connect (45° Bend)		
KT21	Full Quick Connect (90° Bend)	Can Dama 72	
KT25	Half Quick Connect (0° Flat)	See Page 73	
KT26	Half Quick Connect (45° Bend)		
KT27	Half Quick Connect (90° Bend)		
ST	Full Solder		
3/4 ST	Half Solder		
Υ	Feed Thru Solder (.312)	See Page 77	
YSY	Feed Thru Solder (.500)		
Z	Lug Over the Side (.625)		
J 600	Line-to-Line Jumper	Coo Dogo 74	
600 RJ(S)	Multiple Position Jumper	See Page 74	
2004	Feed Thru Solder	See Page 75	

Quick Connects: .020" x .187"





## 600A GP Series

## Specifications:

- A Kulka<sup>®</sup> Brand
- 15 amps
- 300 volts AC/DC, Class B/C
- Base, phenolic, 150°C (UL RTI)
- JJ (GDI-30F) material available
- Terminals, plated brass
- Screws, steel, #6-32 Phil-slot
- Open back design (insulator strip required for voltage rating see page 68)

Dimensions

- 1-22 poles at 3/8" centers
- Accepts lugs w/max width of .30"
- Bare wire range #12-#22 AWG

#### Standards:

- UL recognized, file no. XCFR2.E47811
- CSA certified, file no. LR19766
- CE compliant (IEC 60947-7-1)
- RoHS compliant



	# of	Diffictionio	
Catalog #	Poles	А	В
600A GP 01	1	1.03	0.75
600A GP 02	2	1.41	1.13
600A GP 03	3	1.78	1.50
600A GP 04	4	2.16	1.88
600A GP 05	5	2.53	2.25
600A GP 06	6	2.91	2.63
600A GP 07	7	3.28	3.00
600A GP 08	8	3.66	3.38
600A GP 09	9	4.03	3.75
600A GP 10	10	4.41	4.13
600A GP 11	11	4.78	4.50
600A GP 12	12	5.16	4.88
600A GP 13	13	5.53	5.25
600A GP 14	14	5.91	5.63
600A GP 15	15	6.28	6.00
600A GP 16	16	6.66	6.38
600A GP 17	17	7.03	6.75
600A GP 18	18	7.41	7.13
600A GP 19	19	7.78	7.50

20

21

22

8.16

8.53

8.91

7.88

8.25

8.63

mm=dim X 25.4

600A GP 20

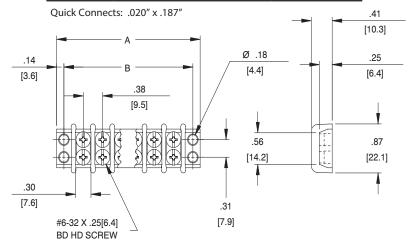
600A GP 21

600A GP 22

### **Hardware Options:**

(Hardware options may affect ratings - consult Customer Service)

Catalog #	Product Description	Page Reference	
KT19	Full Quick Connect (0° Flat)		
KT20	Full Quick Connect (45° Bend)		
KT21	Full Quick Connect (90° Bend)	Can Dawa 72	
KT25	Half Quick Connect (0° Flat)	See Page 73	
KT26	Half Quick Connect (45° Bend)		
KT27	Half Quick Connect (90° Bend)		
ST	Full Solder		
3/4 ST	Half Solder		
Υ	Feed Thru Solder (.312)	See Page 77	
YSY	Feed Thru Solder (.500)		
Z	Lug Over the Side (.625)		
J 600	Line-to-Line Jumper		
600 RJ(S)	Multiple Position Jumper	Can Dana 74	
3860	Wire Clamp Screw, Brass	See Page 74	
3865	Wire Clamp Screw		
2002	Stud	See Page 75	
PSB	Phil-Slot Brass Screw	Consult C/S	





## 601 / 801 GP Series

## Specifications:

- A Kulka<sup>®</sup> Brand
- 20 amps
- 300 volts AC/DC, Class B/C
- 801 series (riveted construction) 150 volts AC/ DC, class-C
- Base, phenolic, 150°C (UL RTI)
- JJ (GDI-30F) material available
- Terminals, plated brass
- Screws, steel, #6-32 phil-slot
- Open back design (insulator strip required for voltage rating - see page 68)
- 1-23 poles at 7/16" centers
- Accepts lugs w/max width of .34"
- Bare wire range #12-#22 AWG

### Standards:

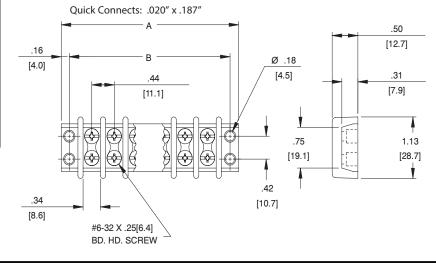
- UL recognized, file no. XCFR2.E47811
- CSA certified, file no. LR19766
- CE compliant (IEC 60947-7-1)
- RoHS compliant

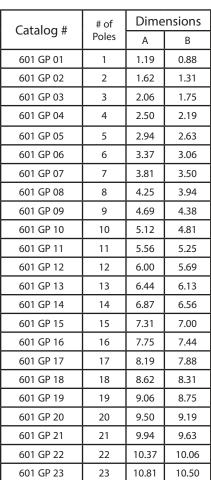


#### **Hardware Options:**

(Hardware options may affect ratings - consult Customer Service)

Catalog #	Product Description	Page Reference	
KT37	Full Quick Connect (0° Flat)		
KT38	Full Quick Connect (45° Bend)	]	
KT39	Full Quick Connect (90° Bend)	C D 72	
KT43	Half Quick Connect (0° Flat)	See Page 73	
KT44	Half Quick Connect (45° Bend)	]	
KT45	Half Quick Connect (90° Bend)	]	
ST	Full Solder		
3/4 ST	3/4 ST Half Solder		
Υ	Feed Thru Solder (.422)	See Page 77	
YSY	Feed Thru Solder (.687)		
J 601	Line-to-Line Jumper		
601 RJ(S)	Multiple Position Jumper	C D 74	
3765	Wire Clamp Screw	See Page 74	
3760	Wire Clamp Screw	]	
2102	Stud		
2104	Feed Thru Solder	See Page 75	
2108	Individual Screw Terminals		
PSB	Phil-Slot Brass Screw	Consult C/S	







## 602 / 802 GP Series

## Specifications:

- A Kulka<sup>®</sup> Brand
- 30 amps
- 300 volts AC/DC, Class B/C
- 802 series (riveted construction), 150 volts AC/DC, Class-C
- Base, phenolic, 150°C (UL RTI)
- JJ (GDI-30F) material available
- · Terminals, plated brass
- Screws, steel, #8-32 phil-slot
- Open back design (insulator strip required for voltage rating - see page 68)
- 1-26 poles at 9/16" centers
- Accepts lugs w/max width of .44"
- Bare wire range #10-#18 AWG

#### Standards:

- UL recognized, file no. XCFR2.E47811
- CSA certified, file no. LR19766
- CE compliant (IEC 60947-7-1)
- RoHS compliant



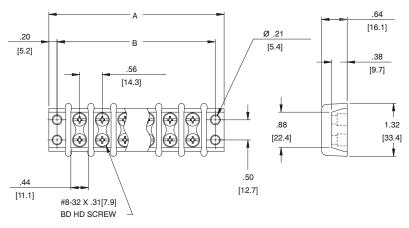
602 GP 06

## Hardware Options:

(Hardware options may affect ratings - consult Customer Service)

Catalog #	Product Description	Page Reference	
KT55	Full Quick Connect (0° Flat)		
KT56	Full Quick Connect (45° Bend)		
KT57	Full Quick Connect (90° Bend)	Can Dawa 72	
KT61	Half Quick Connect (0° Flat)	See Page 73	
KT62	Half Quick Connect (45° Bend)		
KT63	Half Quick Connect (90° Bend)		
ST	Full Solder		
3/4 ST	Half Solder		
Υ	Feed Thru Solder (.500)	See Page 77	
YSY	Feed Thru Solder (.672)		
Z	Lug over the Side (.609)	1	
J 602	J 602 Line-to-Line Jumper		
3786	Wire Clamp Screw	See Page 74	
2202	Stud	See Page 75	
PSB	Phil-Slot Brass Screw	Consult C/S	

Quick Connects: .032" x .250"



#### **Dimensions** # of Catalog # Poles 602 GP 01 1 1.54 1.13 602 GP 02 2.10 2 1.69 602 GP 03 2.66 2.25 3 602 GP 04 4 3.22 2.81 602 GP 05 5 3.79 3.38 602 GP 06 6 4.35 3.94 7 602 GP 07 4.91 4.50 602 GP 08 8 5.47 5.06 602 GP 09 6.04 9 5.63 602 GP 10 10 6.19 6.60 602 GP 11 11 7.16 6.75 602 GP 12 7.72 7.31 12 7.88 602 GP 13 13 8.29 602 GP 14 14 8.85 8.44 602 GP 15 15 9.41 9.00 602 GP 16 16 9.97 9.56 602 GP 17 10.54 10.13 17 602 GP 18 18 11.10 10.69 19 11.66 11.25 602 GP 19 602 GP 20 12.22 11.81 20 602 GP 21 21 12.79 12.38 602 GP 22 22 13.35 12.94 602 GP 23 23 13.91 13.50 602 GP 24 24 14.47 14.06 15.04 14.63 602 GP 25 25 602 GP 26 26 15.60 15.19



## 603 GP Series

## Specifications:

- A Kulka Brand
- 50 amps
- 600 volts AC/DC, Class B/C
- Base, phenolic, 150°C (UL RTI)
- JJ (GDI-30F) material available
- Terminals, plated brass
- Screws, steel, #10-32 phil-slot
- Open back design (insulator strip required for voltage rating - see page 68)
- 1-12 poles at 11/16" centers
- Accepts lugs w/max width of .47"
- Bare wire range #10-#16 AWG

### Standards:

- UL recognized, file no. XCFR2.E47811
- CSA certified, file no. LR19766
- CE compliant (IEC 60947-7-1)
- RoHS compliant



603 GP 06

Catalog #	# of	Dimensions	
Catalog #	Poles	Α	В
603 GP 01	1	1.81	1.38
603 GP 02	2	2.50	2.06
603 GP 03	3	3.19	2.75
603 GP 04	4	3.88	3.44
603 GP 05	5	4.56	4.12
603 GP 06	6	5.25	4.81
603 GP 07	7	5.94	5.50
603 GP 08	8	6.62	6.19
603 GP 09	9	7.31	6.88
603 GP 10	10	8.00	7.56
603 GP 11	11	8.68	8.25
603 GP 12	12	9.37	8.94

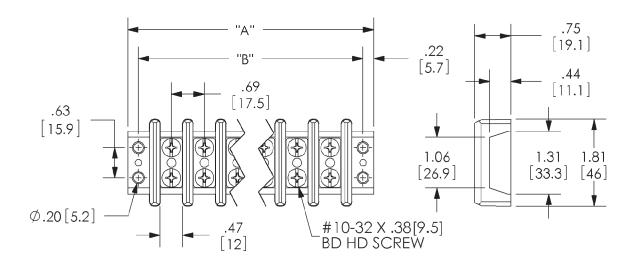
mm=dim X 25.4

### Hardware Options:

(Hardware options may affect ratings - consult Customer Service)

Catalog #	Product Description	Page Reference
KT67	Full Quick Connect (0° Flat)	
KT68	Full Quick Connect (45° Bend)	
KT69	Full Quick Connect (90° Bend)	See Page 73
KT64	Half Quick Connect (0° Flat)	
KT65	Half Quick Connect (45° Bend)	
KT66	Half Quick Connect (90° Bend)	
Υ	Feed Thru Solder (.60)	See Page 77
J 603	Line-to-Line Jumper	See Page 74
2302	Stud	See Page 75
PSB	Phil-Slot Brass Screw	Consult C/S

Quick Connects: .032" x .250"





## General Information:

Single Row Terminal Blocks are available in four basic line to line molding sizes. Some are available in either open or feed thru/printed circuit designs. The basic material is phenolic. Modifications are also provided on most terminal blocks, including marking strips.

#### Ratings and Standards:

The voltage ratings of terminal blocks are based upon the minimum spacing between electrically conductive parts line to line through air and over surface and line to ground through air and over surface.

Class A

Service equipment including deadfront switchboards, panel boards and service entrance devices.

Class B

Commercial appliances including business equipment and electronic data processing equipment.

Class C

Industrial, general

Spacing Requirements (inches)				
	Voltage Thru Air Over Surface			
	51-150	0.500	0.750	
Class A	151-300	0.750	1.250	
	301-600	1.000	2.000	
	51-150	0.063	0.063	
Class B	151-300	0.094	0.094	
	301-600	0.375	0.500	
	51-150	0.125	0.250	
Class C	151-300	0.250	0.375	
	301-600	0.375	0.500	

#### Reference Chart:

	Voltage	Rating <sup>1</sup>		Catalas	Dose	Bare	Caraiii	Inabas	ш о б	
Amps	Class B	Class C	Series	Catalog Page #	Base Material	Wire Range <sup>2</sup>	Screw Size	Inches L to L	# of Lines	Features
5	300	n/a	411	58	Phenolic	#18-20	2-56	.250	1-23	Open Back
15	300	150	599	59	Phenolic	#16-22	5-40	.375	1-30	Open Back
15	n/a	150	799	59	Phenolic	#14	5-40	.375	1-30	Open Back
20	300	150	699	60	Phenolic	#14-20	6-32	.437	1-23	Open Back
20	n/a	150	899	60	Phenolic	#14	6-32	.437	1-23	Open Back
30	600	600	812	61	Phenolic	#12-14	8-32	.562	1-18	Open Back
30	n/a	300	912	61	Phenolic	#10	8-32	.562	1-18	Open Back
20	300	300	1690	62	Phenolic	#14-20	6-32	.437	1-25	Feed Thru
15	300	150	2590	64	Phenolic	#16-22	6-32	.375	1-25	Printed Circuit
20	300	300	2690	65	Phenolic	#14-20	6-32/8-32	.437	1-25	Printed Circuit

<sup>&</sup>lt;sup>1</sup>Open back terminal blocks require an insulator strip to achieve voltage rating.

<sup>&</sup>lt;sup>2</sup>Wire Range for Bare (unprepared) only. Prepared wire range (used with crimp type ring, fork or spade terminals) is dependent on the size of the crimp terminal applied and must not exceed the Amp rating specified.



## 411 GP Series

## Specifications:

- A Kulka<sup>®</sup> Brand
- 5 amps
- 300 volts AC/DC, Class B
- Base, phenolic, 150°C (UL RTI)
- JJ (GDI-30F) material available
- Terminals, plated brass
- Screws, steel, #2-56 phil-slot
- Open back design (insulator strip required for voltage rating - see page 68)
- 1-23 poles at 1/4" centers
- Accepts lugs w/max width of .19"
- Bare wire range #18-#20 AWG

6	# of	Dim	Dimensions		
Catalog #	Poles	Α	В		
411 GP 01 PSB	1	0.75	0.50		
411 GP 02 PSB	2	1.00	0.75		
411 GP 03 PSB	3	1.25	1.00		
411 GP 04 PSB	4	1.50	1.25		
411 GP 05 PSB	5	1.75	1.50		
411 GP 06 PSB	6	2.00	1.75		
411 GP 07 PSB	7	2.25	2.00		
411 GP 08 PSB	8	2.50	2.25		
411 GP 09 PSB	9	2.75	2.50		
411 GP 10 PSB	10	3.00	2.75		
411 GP 11 PSB	11	3.25	3.00		
411 GP 12 PSB	12	3.50	3.25		
411 GP 13 PSB	13	3.75	3.50		
411 GP 14 PSB	14	4.00	3.75		
411 GP 15 PSB	15	4.25	4.00		
411 GP 16 PSB	16	4.50	4.25		
411 GP 17 PSB	17	4.75	4.50		
411 GP 18 PSB	18	5.00	4.75		
411 GP 19 PSB	19	5.25	5.00		
411 GP 20 PSB	20	5.50	5.25		
411 GP 21 PSB	21	5.75	5.50		
411 GP 22 PSB	22	6.00	5.75		
411 GP 23 PSB	23	6.25	6.00		

mm = dim X 25.4

### Standards:

- UL recognized, file no. XCFR2.E47811
- CSA certified, file no. LR19766
- CE compliant (IEC 60947-7-1)
- RoHS compliant

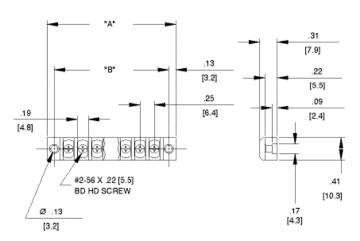


### **Hardware Options:**

(Hardware options may affect ratings - consult customer Service)

Catalog #	Product Description	Page Reference	
KT10	Full Quick Connect (0° Flat)		
KT11	Full Quick Connect (45° Bend)		
KT12	Full Quick Connect (90° Bend)	C 72	
KT16	Half Quick Connect (0° Flat)	See page 72	
KT17	Half Quick Connect (45° Bend)		
KT18	Half Quick Connect (90° Bend)		
ST	Full Solder	6 77	
3/4 ST	Half Solder	See page 77	
Z	Lug over the Side (.312)	Consult C/S	
J 410	Line-to-Line Jumper	See page 74	
1921	Printed Circuit Pin (.125) (Over the Side)	Consult C/S	
1904	Feed Thru Solder	Consult C/S	

Quick Connects: .020" x .110"





**Dimensions** 

В

0.75

1.12

1.50

1.88

2.25

2.63

3.00

Α

1.03

1.41

1.78

2.16

2.53

2.91

3.28

3.66

4.03

4.41

4.78

5.16

5.53

5.91

6.28

6.66

7.03

7.41

7.78

8.16

8.53

8.91

9.28

9.66

10.03

10.41

10.78

11.16

11.53

11.91

## 599/799 GP Series

## Specifications:

- A Kulka<sup>®</sup> Brand
- 15 amps
- 300 volts AC/DC, Class B
- 150 volts AC/DC, Class C
- 799 series (riveted construction) 150 Volts AC/DC, Class-C
- Base, phenolic, 150°C (UL RTI)
- JJ (GDI-30F) material available
- Terminals, plated brass
- Screws, steel, #5-40 phil-slot
- Open back design (insulator strip required for voltage rating - see page 68)

# of

**Poles** 

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

1-30 poles at 3/8" centers

Catalog #

599 GP 01 PSB

599 GP 02 PSB

599 GP 03 PSB

599 GP 04 PSB

599 GP 05 PSB

599 GP 06 PSB

599 GP 07 PSB

599 GP 08 PSB

599 GP 09 PSB

599 GP 10 PSB

599 GP 11 PSB

599 GP 12 PSB

599 GP 13 PSB

599 GP 14 PSB

599 GP 15 PSB

599 GP 16 PSB

599 GP 17 PSB

599 GP 18 PSB

599 GP 19 PSB

599 GP 20 PSB

599 GP 21 PSB

599 GP 22 PSB

599 GP 23 PSB

599 GP 24 PSB

599 GP 25 PSB

599 GP 26 PSB

599 GP 27 PSB

599 GP 28 PSB

599 GP 29 PSB

599 GP 30 PSB

- Accepts lugs w/max width of .30"
- Bare wire range #16-#22 AWG

#### Standards:

- UL recognized, file no. XCFR2.E47811
- CSA certified, file no. LR19766
- CE compliant (IEC 60947-7-1)
- RoHS compliant

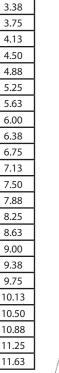


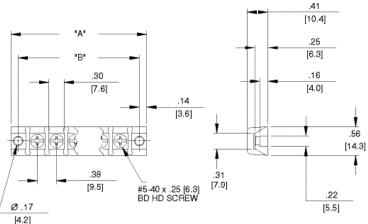
### Hardware Options:

(Hardware options may affect ratings - consult Customer Service)

Catalog #	Product Description	Page Reference	
KT28	Full Quick Connect (0° Flat)		
KT29	Full Quick Connect (45° Bend)		
KT30	Full Quick Connect (90° Bend)	Coo. 110 110 170	
KT34	Half Quick Connect (0° Flat)	See page 72	
KT35	T35 Half Quick Connect (45° Bend)		
KT36	Half Quick Connect (90° Bend)	ı	
3/4 ST	Half Solder	See page 77	
Z	Lug over the Side (.312)	Consult C/S	
J 600	Line-to-Line Jumper	Soo page 74	
600 RJ(S)	Multiple Position Jumper	See page 74	
2002	Stud		
2004	2004 Feed Thru Solder		
2020	2020 Solder Pin		
2021	Solder Pin (Slotted Screw)	1	

Quick Connects: .020" x .187"







## 699/899 GP Series

## Specifications:

- A Kulka<sup>®</sup> Brand
- 20 amps
- 300 volts AC/DC, Class B
- 150 volts AC/DC, Class C
- 899 series (riveted construction)
   150 volts AC/DC, Class-C
- Base, phenolic, 150°C (UL RTI)
- JJ (GDI-30F) material available
- · Terminals, plated brass
- Screws, steel, #6-32 phil-slot
- Open back design (insulator strip required for voltage rating - see page 68)
- 1-23 poles at 7/16" centers
- Accepts lugs w/max width of .33"
- Bare wire range #14-#20 AWG

### Standards:

- UL recognized, file no. XCFR2.E47811
- CSA certified, file no. LR19766
- CE compliant (IEC 60947-7-1)
- RoHS compliant





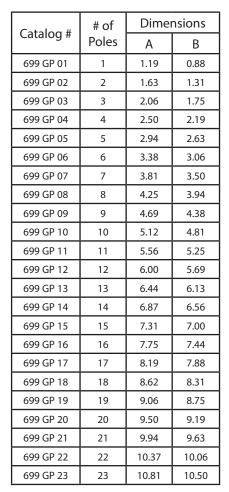
#### **Hardware Options:**

(Hardware options may affect ratings - consult Customer Service)

Catalog #	Product Description	Page Reference	
KT46	Full Quick Connect (0° Flat)		
KT47	Full Quick Connect (45° Bend)		
KT48	Full Quick Connect (90° Bend)	C 72	
KT52	Half Quick Connect (0° Flat)	See page 72	
KT53	Half Quick Connect (45° Bend)		
KT54	Half Quick Connect (90° Bend)		
3/4 ST	Half Solder	See page 77	
Z	Lug over the Side (.437)	Consult C/S	
J 601	Line-to-Line Jumper	Can mana 74	
601 RJ(S)	Multiple Position Jumper	See page 74	
2102	Stud		
2104	2104 Feed Thru Solder		
2120	Solder Pin	See page 75	
2121	Solder Pin		
PSB	Phil-Slot Brass Screw	Consult C/S	

Quick Connects: .032" x .250" See pages 67-77 for terminal block accessories

1.5			.50
'A'			[12.7]
-A-	<b></b>		.31
'B'		-	[7.9]
	-		.22
.33	.16	-	[5.5]
[8.4]	[4.0]	.	
		1	
	3 0 0 <del>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</del>		
			∃
	.50 [12.7]		Į T
[11.1]	#6-32 X .25 [6.4]	.38 [9.5]	.25 [6.4]
0.10	BD HD SCREW	[0.0]	[0.4]





## 812/912 GP Series

## Specifications:

- A Kulka<sup>®</sup> Brand
- 30 amps
- 600 volts AC/DC, Class B/C
- 912 series (riveted construction) 300 volts AC/DC, Class-C
- Base, phenolic, 150°C (UL RTI)
- JJ (GDI-30F) material available
- · Terminals, plated brass
- Screws, steel, #8-32 phil-slot
- Open back design (insulator strip required for voltage rating - see page 68)
- 1-18 poles at 9/16" centers
- Accepts lugs w/max width of .41"
- Bare wire range #12-#14 AWG

#### Standards:

- UL recognized, file no. XCFR2.E47811
- CSA certified, file no. LR19766
- CE compliant (IEC 60947-7-1)
- · RoHS compliant







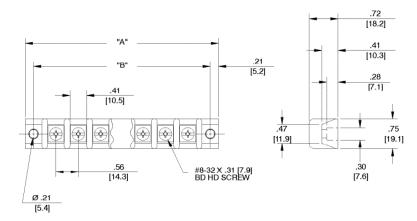
### Hardware Options:

(Hardware options may affect ratings - consult Customer Service)

Catalog #	Product Description	Page Reference	
KT73	Full Quick Connect (0° Flat)		
KT74	Full Quick Connect (45° Bend)		
KT75	Full Quick Connect (90° Bend)	C	
KT79	Half Quick Connect (0° Flat)	See page 72	
KT80	Half Quick Connect (45° Bend)		
KT81	Half Quick Connect (90° Bend)		
3/4 ST	Half Solder	See page 77	
Z	Lug over the Side (.641)	Consult C/S	
J 602	Line-to-Line Jumper	See page 74	
2202	2202 Stud		
2204	Feed Thru Solder	See page 75	
PSB	Phil-Slot Brass Screw	Consult C/S	

Quick Connects: .032" x .150"

Catalog #	# of	Dimer	nensions	
Catalog #	Poles	Α	В	
812 GP 01	1	1.53	1.13	
812 GP 02	2	2.09	1.69	
812 GP 03	3	2.66	2.25	
812 GP 04	4	3.22	2.81	
812 GP 05	5	3.78	3.38	
812 GP 06	6	4.34	3.94	
812 GP 07	7	4.91	4.50	
812 GP 08	8	5.47	5.06	
812 GP 09	9	6.03	5.63	
812 GP 10	10	6.59	6.19	
812 GP 11	11	7.16	6.75	
812 GP 12	12	7.72	7.31	
812 GP 13	13	8.28	7.88	
812 GP 14	14	8.84	8.44	
812 GP 15	15	9.41	9.00	
812 GP 16	16	9.97	9.56	
812 GP 17	17	10.53	10.13	
812 GP 18	18	11.09	10.69	





## 1690 GP Series

## Specifications:

- A Kulka<sup>®</sup> Brand
- 20 amps
- 300 volts AC/DC, Class B
- 150 volts AC/DC, Class C
- Base, phenolic, 150°C (UL RTI)
- Terminals, plated brass
- Screws, brass, #6-32 phil-slot
- Two speed-nuts supplied per part
- 1-25 poles at 7/16" centers
- Accepts lugs w/max width of .34"
- Bare wire range #14-20 AWG

### Standards:

- UL recognized, file no. XCFR2.E47811
- · CSA certified, file no. LR19766
- CE compliant (IEC 60947-7-1)
- RoHS compliant



Top to bottom: 1694 GP 04 PSB, 1691 GP 06 PSB

#### TERMINAL BLOCK SERIES

TERMINAL BLOCK SERIES						
# of	1691 GP 1692 GP 1693 GP		1694 GP 1695 GP 1696 GP		1697 GP 1698 GP 1699 GP	
Poles	Dime	nsions	Dimer	nsions	Dimensions	
	Α	В	Α	В	Α	В
1	0.34		1.22	0.88	0.53	
2	0.78	0.44	1.66	1.31	0.97	0.44
3	1.22	0.88	2.09	1.75	1.41	0.88
4	1.66	1.31	2.53	2.19	1.84	1.31
5	2.09	1.75	2.97	2.63	2.28	1.75
6	2.53	2.19	3.41	3.06	2.72	2.19
7	2.97	2.63	3.84	3.50	3.16	2.63
8	3.41	3.06	4.28	3.94	3.59	3.06
9	3.84	3.50	4.72	4.38	4.03	3.50
10	4.28	3.94	5.16	4.81	4.47	3.94
11	4.72	4.38	5.59	5.25	4.91	4.38
12	5.16	4.81	6.03	5.69	5.34	4.81
13	5.59	5.25	6.47	6.13	5.78	5.25
14	6.03	5.69	6.91	6.56	6.22	5.69
15	6.47	6.13	7.34	7.00	6.66	6.13
16	6.91	6.56	7.78	7.44	7.09	6.56
17	7.34	7.00	8.22	7.88	7.53	7.00
18	7.78	7.44	8.66	8.31	7.97	7.44
19	8.22	7.88	9.09	8.75	8.41	7.88
20	8.66	8.31	9.53	9.19	8.84	8.31
21	9.09	8.75	9.97	9.63	9.28	8.75
22	9.53	9.19	10.41	10.06	9.72	9.19
23	9.97	9.63	10.84	10.50	10.16	9.63
24	10.41	10.06				
25	10.84	10.50				

mm = dim X 25.4

Include "PSB" after part # when ordering (169X GP XX PSB)

### **Hardware Options:**

(Hardware options may affect ratings - consult Customer Service)

(Haraware options may affect ratings) consult customer service,				
Catalog #	Product Description	Page Reference		
KT46	Full Quick Connect (0° Flat)			
KT47	Full Quick Connect (45° Bend)			
KT48	Full Quick Connect (90° Bend)	Can mana 72		
KT52	Half Quick Connect (0° Flat)	See page 72		
KT53	Half Quick Connect (45° Bend)			
KT54	Half Quick Connect (90° Bend)			
3/4 ST	Half Solder	See page 77		
J 601	Line-to-Line Jumper	Coo page 74		
601 RJ(S)	Multiple Position Jumper	See page 74		

Quick Connects: .032" x .250"



1690 GP Series (cont.)

## TERMINAL BLOCK SERIES 1691 GP / 1692 GP / 1693 GP

1691 GP Series Solder terminal

K = .52 [13.10]; W = .06 [1.59]

1692 GP Series Kliptite terminal

1693 GP Series Solder terminal

K = .58 [14.68]; W = .13 [3.18]

## TERMINAL BLOCK SERIES 1694 GP / 1695 GP / 1696 GP

1694 GP Series Solder terminal

K = .52 [13.10]; W = .06 [1.59]

1695 GP Series Kliptite terminal

1696 GP Series Solder terminal

K = .58 [14.68]; W = .13 [3.18]

## TERMINAL BLOCK SERIES 1697 GP / 1698 GP / 1699 GP

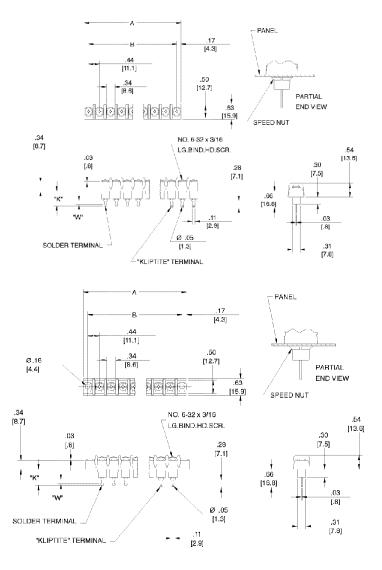
1697 GP Series Solder terminal

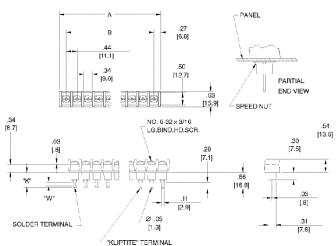
K = .52 [13.10]; W = .06 [1.59]

1698 GP Series Kliptite terminal

1699 GP Series Solder terminal

K = .58 [14.68]; W = .13 [3.18]







## 2590 GP Series

## Specifications:

- A Kulka<sup>®</sup> Brand
- 15 amps
- 300 volts AC/DC, Class B
- 150 volts AC/DC, Class C
- Base, phenolic, 150°C (UL RTI)
- Terminals, plated brass
- Screws, brass, #6-32 slotted
- 1-25 poles at 3/8" centers
- Accepts lugs w/max width of .30"
- Bare wire range #16-22 AWG

### Standards:

- UL recognized, file no. XCFR2.E47811
- CSA certified, file no. LR19766
- CE compliant (IEC 60947-7-1)
- RoHS compliant



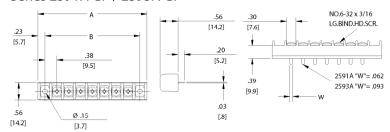
2599A GP 04 PSB

#### TERMINAL BLOCK SERIES

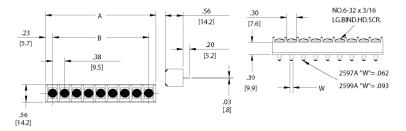
	2591	A GP	2597	7A GP	
# of	2593	A GP	2599	PA GP	
Poles	Dimer	nsions	Dimensions		
	Α	В	Α	В	
1	1.19	0.75	0.44		
2	1.56	1.13	0.81	0.38	
3	1.94	1.50	1.19	0.75	
4	2.31	1.88	1.56	1.13	
5	2.69	2.25	1.94	1.50	
6	3.06	2.63	2.31	1.88	
7	3.44	3.00	2.69	2.25	
8	3.81	3.38	3.06	2.63	
9	4.19	3.75	3.44	3.00	
10	4.56	4.13	3.81	3.38	
11	4.94	4.50	4.19	3.75	
12	5.31	4.88	4.56	4.13	
13	5.69	5.25	4.94	4.50	
14	6.06	5.63	5.31	4.88	
15	6.44	6.00	5.69	5.25	
16	6.81	6.38	6.06	5.63	
17	7.19	6.75	6.44	6.00	
18	7.56	7.13	6.81	6.38	
19	7.94	7.50	7.19	6.75	
20	8.31	7.88	7.56	7.13	
21	8.69	8.25	7.94	7.50	
22	9.06	8.63	8.31	7.88	
23	9.44	9.00	8.69	8.25	
24		-	9.06	8.63	
25			9.44	9.00	

mm = dim X 25.4

### Series 2591A GP / 2593A GP



## Series 2597A GP / 2599A GP



### **Hardware Options:**

(Hardware options may affect ratings - consult Customer Service)

Catalog #	Product Description	Page Reference	
KT28	Full Quick Connect (0° Flat)		
KT29	Full Quick Connect (45° Bend)		
KT30	Full Quick Connect (90° Bend)	Can mana 72	
KT34	Half Quick Connect (0° Flat)	See page 72	
KT35	Half Quick Connect (45° Bend)		
KT36	Half Quick Connect (90° Bend)		
3/4 ST	Half Solder		
Υ	Lug Over the Side (.359)	See page 77	
Z	Lug Over the Side (.172)		
J 600 Line-to-Line Jumper		Coo page 74	
600 RJ(S)	Multiple Position Jumper	See page 74	
3000	Wire Wrap Lug (.641)	Consult C/S	

Quick Connects: .032" x .250"



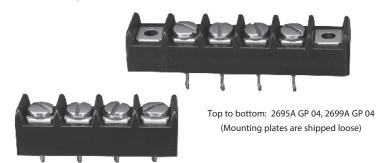
## 2690 GP Series

## Specifications:

- A Kulka® Brand
- 20 amps
- 300 volts AC/DC, Class B
- 150 volts AC/DC, Class C
- Base, phenolic, 150°C (UL RTI)
- · Terminals, plated brass
- Screws, brass, #6-32 or #8-32 slotted
- 1-24 poles at 7/16" centers
- Accepts lugs w/max width of .34"
- Bare wire range #14-#20 AWG

### Standards:

- UL recognized, file no. XCFR2.E47811
- CSA certified, file no. LR19766
- CE compliant (IEC 60947-7-1)
- RoHS compliant



#### **Hardware Options:**

(Hardware options may affect ratings - consult Customer Service)

(Hardware options may affect ratings - consult Customer Service)					
Catalog # Product Description		Page Reference			
KT28	Full Quick Connect (0° Flat)				
KT29	Full Quick Connect (45° Bend)				
KT30	Full Quick Connect (90° Bend)				
KT34	Half Quick Connect (0° Flat)				
KT35	Half Quick Connect (45° Bend)				
KT36	Half Quick Connect (90° Bend)	Con 110 72			
KT46	See page 72				
KT47	Full Quick Connect (45° Bend)				
KT48	Full Quick Connect (90° Bend)				
KT52	Half Quick Connect (0° Flat)				
KT53	KT53 Half Quick Connect (45° Bend)				
KT54	KT54 Half Quick Connect (90° Bend)				
3/4 ST	Half Solder				
Y	Y Lug Over the Side (.609)				
Z	Lug Over the Side (.344)				
J 601	Line-to-Line Jumper	See page 74			
601 RJ(S)	601 RJ(S) Multiple Position Jumper				

Quick Connects (KT28-36):  $.020'' \times .187'' - Quick Connects$  (KT46-54):  $.032'' \times .250''$ 

	2694	IGP /	2697GP /			
	2694	IAGP	2697AGP			
	2695	GP /	2698GP /			
# of	2695	SAGP	2698	BAGP		
Poles	2696	GP /	2699	GP /		
	2696	SAGP	2699	2699AGP		
	Dime	nsions	Dime	Dimensions		
	А	В	А	В		
1	1.41	0.88	0.53			
2	1.84	1.31	0.97	0.44		
3	2.28	1.75	1.41	0.88		
4	2.72	2.19	1.84	1.31		
5	3.16	2.63	2.28	1.75		
6	3.59	3.59 3.06		2.19		
7	4.03	3.50	3.16	2.63		
8	4.47	3.94	3.59	3.06		
9	4.91	4.38	4.03	3.50		
10	5.34	4.81	4.47	3.94		
11	5.78	5.25	4.91	4.38		
12	6.22	5.69	5.34	4.81		
13	6.66	6.13	5.78	5.25		
14	7.09	6.56	6.22	5.69		
15	7.53	7.00	6.66	6.13		
16	7.97	7.44	7.09	6.56		
17	8.41	7.88	7.53	7.00		
18	8.84	8.31	7.97	7.44		
19	9.28	8.75	8.41	7.88		
20	9.72	9.19	8.84	8.31		
21	10.16	9.63	9.28	8.75		
22	10.59	10.06	9.72	9.19		
23	11.03	10.50	10.16	9.63		

See page 66 for 2690 Series Terminal block dimensions. mm = dim X 25.4

10.59

11.03

10.06

10.50

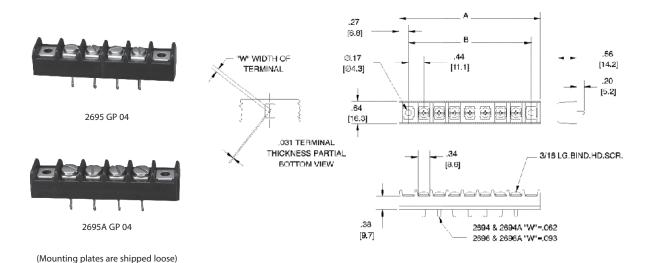


2690 GP Series (cont.)

TERMINAL BLOCK SERIES: 2694 GP / 2694A GP / 2695 GP 2695A GP / 2696 GP / 2696A GP

#### **DEFINITION BARRIER ENDS:**

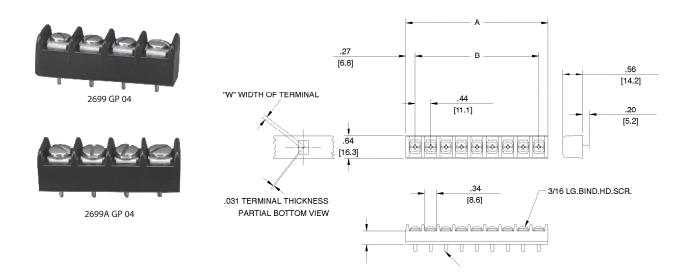
2694 GP #6-32 Brass Screw, Printed Circuit Width = .062
2695 GP #6-32 Brass Screw, Solder Turret (not shown)
2696 GP #6-32 Brass Screw, Printed Circuit Width = .093
2696 GP #8-32 Brass Screw, Printed Circuit Width = .093
2696 GP #8-32 Brass Screw, Printed Circuit Width = .093



# TERMINAL BLOCK SERIES: 2697 GP / 2698 GP / 2699 GP 2697A GP / 2698A GP / 2699A GP

#### **DEFINITION BARRIER ENDS:**

2697 GP #6-32 Brass Screw, Printed Circuit Width = .062 2698 GP #6-32 Brass Screw, Solder Turret (not shown) 2699 GP #6-32 Brass Screw, Printed Circuit Width = .093 2699 GP #8-32 Brass Screw, Printed Circuit Width = .093





## **Terminal Block Accessories**

## Marking Strips and Covers; Top-Mounted - Double Row

## Specifications:

- White vinyl material, 0.03" thick
- · Two nylon spring clips for mounting provided
- Marking strips: printed on center line with letters or numbers for circuit identification
- Covers: printed on top, bottom or center line with letters or numbers for circuit identification

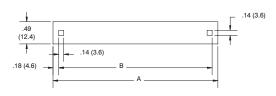
letters or numbers for circuit identification							
	Seri	es 1	Seri	es 2	Series 3		
	100/67 600 GP GP, 67	, 600A	200/671 GP, 601 GP, 621 RZ, 671 RZ		300/672GP 602 GP, 672 RZ		
# of Terminals	A	В	А	В	А	В	
1	0.91	0.55	1.01	0.65	1.16	0.80	
2	1.29	0.93	1.44	1.08	1.73	1.37	
3	1.66	1.30	1.88	1.52	2.29	1.93	
4	2.04	1.68	2.32	1.96	2.85	2.49	
5	2.41	2.05	2.76	2.40	3.42	3.06	
6	2.79	2.43	3.19	2.83	3.98	3.62	
7	3.16	2.80	3.63	3.27	4.54	4.18	
8	3.56	3.20	4.07	3.71	5.10	4.74	
9	3.91	3.55	4.50	4.14	5.67	5.31	
10	4.29	3.93	4.94	4.58	6.23	5.87	
11	4.66	4.30	5.38	5.02	6.79	6.43	
12	5.04	4.68	5.81	5.45	7.36	7.00	
13	5.41	5.05	6.25 5.89		7.92	7.56	
14	5.79	5.43	6.69 6.33		8.48	8.12	
15	6.16	5.80	7.13 6.77		9.05	8.69	
16	6.54	6.18	7.56	7.20	9.61	9.25	
17	6.91	6.55	8.00	7.64	10.17	9.81	
18	7.29	6.93	8.44	8.08	10.73	10.37	
19	7.66	7.30	8.87	8.51	11.30	10.94	
20	8.04	7.68	9.31	8.95	11.86	11.50	
21	8.41	8.05	9.75	9.39	12.42	12.06	
22	8.79	8.43	10.18	9.82	12.99	12.63	
23	9.16	8.80	10.62	10.26	13.55	13.19	
24	9.54	9.18	11.06	10.70	14.11	13.75	
25	9.91	9.55	11.50	11.14			
26	10.29	9.93	11.93	11.57			
27	10.66	10.30	12.37	12.01			
28	11.04	10.68	12.81	12.45			
29	11.41	11.05	13.24	12.88			
30	11.79	11.43	13.68	13.32			
31	12.16	11.80					
32	12.54	12.18					
33	12.91	12.55					
34	13.29	12.93					
35	13.66	13.30					
26	1404	12.60					

- Printing character size is 1/8 inch
- Unless otherwise specified, the marking goes down the center of the cover for print styles 01A, 01B, 01C, 01D
- Marking goes down the 2 sides of the cover for print styles 07A, 07B, 07C, 07D

NYLON SPRING CLIP



#### MARKING STRIP



## **Print Styles**

01A	1234567	01C	- 7 R 4 3 V V
01B	7654321	01D	V 9 4 8 2 T
07A	l 7 ε τ	07C	1
07B	2957E71 7654321	07D	V 9 4 8 7 7 1 7 1 7 1 7 1 7 1 1 1 1 1 1 1 1 1
01X	BLANK - no printing		

01X	BLANK - no printing		
Order	ing Codes	NO. OF	PRINT
COVER	SERIES	TERMINALS	STYLE
CW	2	05	01A
CB (Black) CW (White CC (Clear)	1/2/3 or 621		
MARKING STRIP	SERIES	NO. OF TERMINALS	PRINT STYLE
SW	2	05	01A
SW (White)	1/2/3 or 621		Print styles 07A/B/C/D

not available



## **Terminal Block Accessories**

## Marking and Insulator Strips; Sub-Mounted - Single Row & Double Row

Marking strips serve as insulation between terminal blocks and chassis, as well as providing a marking surface for terminal identification. When specified, they can be printed to show terminal designations by numbers, letters, symbols or any combination thereof. Insulator strips offer the same properties, but do not provide space for terminal identification. Both marking and insulator strips can be supplied pre-mounted on the back of each block thereby simplifying assembly and inventory control.

#### Order Information:

FEED-THRU STYLE: For feed-thru terminal blocks, see styles 2, 3, 5, 6, 8, & 9 on page 70. Insert applicable feed-thru style designation in ordering code, i.e. Y, YSY, XY, 1904, 1921, 2000, 2004, 2020, 2021, 2104, 2120, 3000.

AVAILABILITY: Marking and insulator strips are available to fit most Terminal Blocks. See SERIES reference numbers on page 69 for a complete listing. If not listed, consult Customer Service for availability. Designate appropriate prefix (MS for marking strips or IS for insulator strip) in front of the SERIES number when ordering. Available materials: XP (general purpose laminate), XXXPFR (flame retardant), GME (glass cloth melamine), GEE (glass cloth epoxy).

### Ordering Code:

Descriptions:	Strip Type	Series	Material	Feed Thru (if applicable)	Number of Terminals	Print Style
Example:	MS	671	XP	Y	16	01A
	MS = Marking Strip	410	XP	Υ		See
	IS = Insulator Strip	411	XXPFR	(Blank)		Printing
		599 (799)	GME			Style
		600 (800)	GEE			Selection
		601 (801)				
		602 (802)				
		603				
		604				
		605				
		621				
		670 (100)		_		
		671 (200)				_
		672 (300)	/			
		699 (899)	/6	<b>&gt;</b>		0
		812 (912)		7		0

MS-xxx-XP-04-01A



# **Terminal Block Accessories**

## Marking Strip Dimensions - Double & Single Row

Series	Print Style	C*	D	E	F	X (dia)	Text Height	Figure
410	1-6	0.75	0.25	0.19	0.12	0.13	0.06	1
410	7, 8, 9	1.13	0.23	0.44	0.12	0.13	0.00	
411	1, 2, 4, 5	0.56	n/a	0.19	0.13	0.13	0.06	2
711	7, 8	0.88	11/4	0.44	0.15	0.15	0.00	
599 (799)	1, 2, 4, 5	0.81	n/a	0.28	0.14	0.16	0.13	2
355 (755)	7, 8	1.13	11/a	0.56	0.14	0.10	0.15	
600 (800)	1-6	1.13	0.31	0.29	0.14	0.16	0.13	1
000 (000)	7, 8, 9	1.38	0.51	0.53	0.14	0.10	0.13	
601 (801)	1-6	1.31	0.42	0.34	0.16	0.18	0.13	1
001 (001)	7, 8, 9	1.50	0.42	0.55	0.10	0.10	0.15	
602 (802)	1-6	1.50	0.50	0.41	0.20	0.21	0.13	1
002 (002)	7, 8, 9	1.75		0.63	0.20			
603	1-6	1.88	0.63	0.59	0.22	0.23	0.13	1
003	7, 8, 9	2.13		0.75				
604	1, 4	2.13	0.75	0.63	0.27	0.23	0.13	1
004	7	2.50		0.88		0.23		
605	1, 4	2.69	0.88	0.81	0.31	0.27	0.13	1
003	7	2.81		0.97				
621	1, 4	1.75	0.42	0.51	0.16	0.18	0.13	1
670 (100)	1-6	1.19	0.31	0.28	0.14	0.16	0.13	1
070 (100)	7, 8, 9	1.50	0.51	0.59	0.14			
671 (200)	1-6	1.50	0.42	0.34	0.16	6 0.18	0.13	1
071 (200)	7, 8, 9	1.75	0.42	0.67	0.16			'
672 (300)	1-6	1.63	0.50	0.41	0.20	0.21	0.13	1
	7, 8, 9	1.94	0.50	0.72	0.20	0.21	0.13	
600 (800)	1, 2, 4, 5	0.88	n/a	0.56	0.16	0.16 0.18	0.13 2	2
699 (899)	7, 8	1.13	11/a	0.34	0.10		0.13	
912 (012)	1, 2, 4, 5	0.94	n/a	0.37	0.20	0.21	0.06	2
812 (912)	7, 8	1.31	I I/a	0.66	0.20	0.21	0.13	



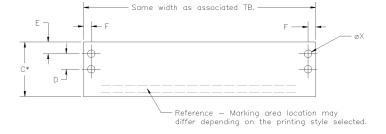
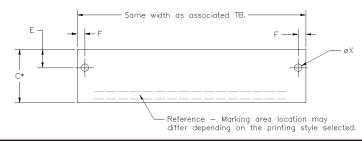


Figure-2





## Marking Strip Printing Styles - Double & Single Row

#### Printing:

- Maximum number of characters is two.
- If unprinted marking strips are desired, insert the letter "X" in the print style order code.
- Printing color is black on white surfaces, and silver on black surfaces.
- Fungus proof coatings can be supplied per request per MIL-V-173A. State on order: "Coat after printing with MIL-V-173A varnish."

#### Single Row **Double Row** В С D 0 0 0 0 STYLE 1 0 1 2 3 3 2 1 STYLE 1 1 2 3 0000 0000 0000 0000 STYLE 2 0000 0000 0000 0000 STYLE 2 3 2 1 1 2 3 m α -0 0000 0000 123 0000 STYLE 3 В С D 1 2 3 e 6 -С STYLE 4 0 0 STYLE 4 1 2 3 3 2 1 0 - a a e α -STYLE 5 0000 0000 0000 0000 3 2 1 **−** α α ლი -В D STYLE 5 0000 В D 0000 0000 0000 0000 STYLE 6 0 3 2 1 1 5 3 0 0 0 0 С Α В D 1 2 3 3 2 1 STYLE 7 1 2 3 3 2 1 В С D 0 0 3 2 1 E 2 1 **−** 0 0 ω Q + STYLE 7 3 2 3 2 1 В D 3 2 1 1 2 3 - 2 6 6 2 -1 2 3 3 2 1 0000 0000 0000 0000 1 2 3 - 0 0 3 2 1 e α -STYLE 8 1 2 3 3 2 1 \_ C 0000 8 1 2 3 351 დ Q − 0000 0000 0000 1 2 3 3 2 1 STYLE 8

STYLE 9

1 2 3

123 1 2 3

Ε

Α

351

3 2 1

3 2 1

F

В

153

3 2 1

00000

C

**−** 0 0

D

ω < 0 +</p>

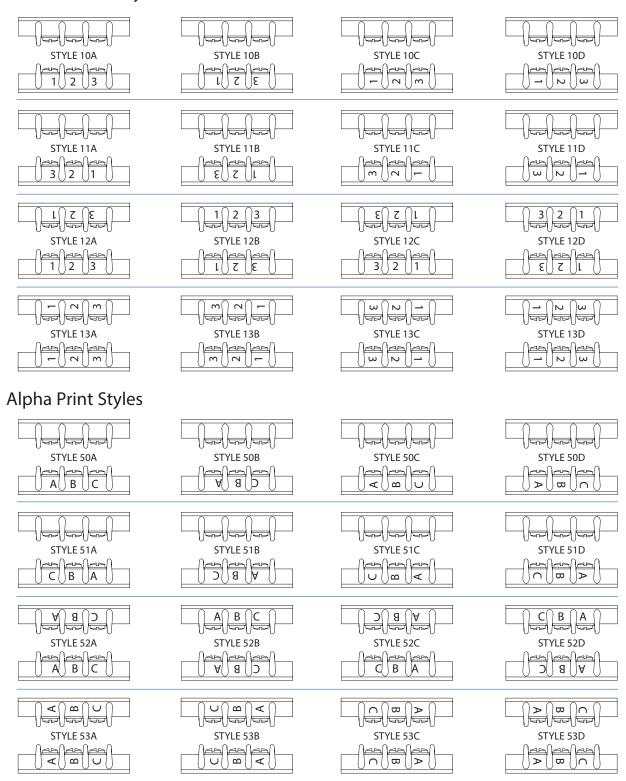
321

Е



## **Terminal Block Printing**

## **Numeric Print Styles**





## Kliptite (Quick Connect) - Single Row

#### Specifications:

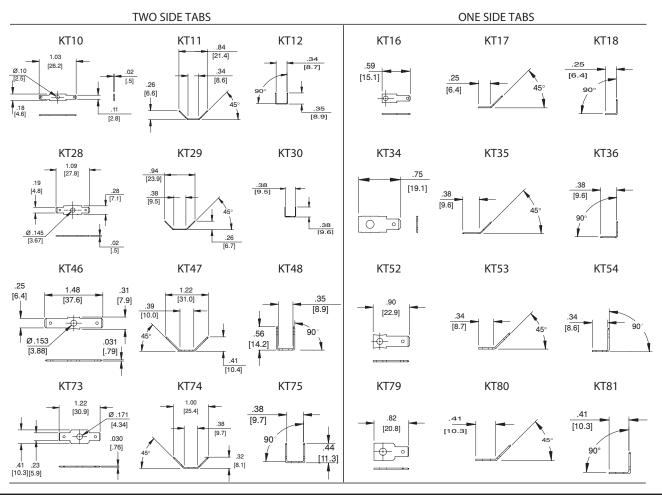
Kliptite (Quick Connect) accept standard female wire terminals. These Kliptites are ideal for applications that require a positive, yet quick disconnect termination. Kliptites are assembled to the block with screws or, in some applications, riveted to the block.

Kliptites are available in 0°, 45° or 90° bends; one side or two side.

Material: Brass Finish: Tin

				(2) 0° tabs	(2) 45° tabs	(2) 90° tabs	(1) 0° tab	(1) 45° tab	(1) 90° tab
Screw Construction	Rivet Construction	Tab Width	Tab Thickness						
411 Series		0.110	0.020	KT10	KT11	KT12	KT16	KT17	KT18
599 Series	799 Series	0.187	0.020	KT28	KT29	KT30	KT34	KT35	KT36
699 Series	899 Series	0.250	0.032	KT46	KT47	KT48	KT52	KT53	KT54
812 Series	912 Series	0.250	0.032	KT73	KT74	KT75	KT79	KT80	KT81
1690 Series <sup>1</sup>		0.250	0.032	KT46	KT47	KT48	KT52	KT53	KT54
2590 Series <sup>2</sup>		0.187	0.020	KT28	KT29	KT30	KT34	KT35	KT36
2690 Series <sup>3</sup>		0.250	0.032	KT46	KT47	KT48	KT52	KT53	KT54

- 1) 1690 Series insulated feed-thru blocks use the 699 Series Kliptites
- 2) 2590 Series use the 599 Series Kliptites
- 3) 2690 Series PC block use the 699 Kliptites





## Kliptite (Quick Connect) - Double Row

				(2) 0° tabs	(2) 45° tabs	(2) 90° tabs	(1) 0° tab	(1) 45° tab	(1) 90° tab
				. [3	[]	P	/3	$\sqrt{\cdot \cdot \cdot}$	اوا
Series	Rivet Construction	Tab Width	Tab Thickness			D.			
400		0.250	0.032	KT67	KT68	KT69	KT64	KT65	KT66
600 GP (600A)		0.187	0.020	KT19	KT20	KT21	KT25	KT26	KT27
601		0.250	0.032	KT37	KT38	KT39	KT43	KT44	KT45
602		0.250	0.032	KT55	KT56	KT57	KT61	KT62	KT63
603		0.250	0.032	KT67	KT68	KT69	KT64	KT65	KT66
621 RZ⁵		0.250	0.032	KT37	KT38	KT39	KT43	KT44	KT45
670A GP (100)		0.187	0.020	KT19	KT20	KT21	KT25	KT26	KT27
670A RZ Series <sup>4</sup>	801 Series	0.187	0.020	KT19	KT20	KT21	KT25	KT26	KT27
671 GP (200)	802 Series	0.250	0.032	KT37	KT38	KT39	KT43	KT44	KT45
671 RZ Series⁵		0.250	0.032	KT37	KT38	KT39	KT43	KT44	KT45
672 GP (300)		0.250	0.032	KT55	KT56	KT57	KT61	KT62	KT63
672 RZ Series <sup>6</sup>		0.250	0.032	KT55	KT56	KT57	KT61	KT62	KT63

<sup>4) 100, 670</sup>A GP, 670A RZ Series use the 600 Series Kliptites

MSP Catalog Designations:

2-SIDE TABS: F1 (0°), F2 (45°), F3 (90°) 1-SIDE TABS: HF1 (0°), HF2 (45°), HF3 (90°)

TWO SIDE TABS ONE SIDE TABS KT19 KT21 KT20 KT25 KT27 KT26 .69 [17.5] [17.5] .59 [15.0] Ø .14 [3.6] KT37 KT38 KT39 KT43 KT44 KT45 .42 [10.7] 1.30 [21.4] [32.9] [20.1] KT55 KT56 KT57 KT61 KT62 KT63 1.68 1.42 .92 [23.4] [23.1] [36.0] [24.7] .032 KT67 KT68 KT69 KT64 KT66 KT65 Ø.203 THRU HOLES TYP. 3 PLCS. 1.44 1.08 [27.4] [36.5] 1.03 [26.2]  $| \phi \phi \phi \rangle$ .31 [7.9]

<sup>5) 200, 671</sup> GP, 671 RZ, 621 RZ Series use the 601 Series Kliptites

<sup>6) 300, 672</sup> GP, 672 RZ Series use the 602 Series Kliptites

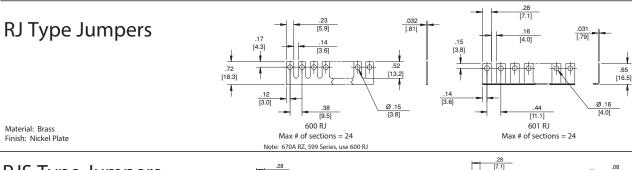


## J & JS Jumpers

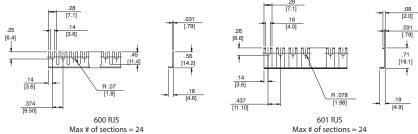
	Catalog #	Α	В	С	D	E	F	G	Н	J	K	MSP Catalog Designations:
Г	J 410/J 411	0.41	0.25	0.19	0.09	0.10	0.04	0.010	0.094	0.08	NA	J 600 = LL 100 J 601 = LL 200
Г	J 600	0.62	0.38	0.25	0.12	0.16	0.04	0.015	0.156	0.08	NA	J 602 = LL 300
Г	J 601	0.71	0.45	0.31	0.15	0.19	0.06	0.015	0.166	0.11	NA	J 603 = LL 400
	J 602	0.91	0.56	0.37	0.18	0.27	0.08	0.015	0.190	0.16	NA	J Type c J + + + Ø H
Г	J 603	1.13	0.69	0.43	0.21	0.25	0.12	0.031	0.201	0.24	NA	Material: Brass
	J 604	1.38	0.88	0.50	0.25	0.35	0.15	0.035	0.234	0.32	NA	Finish: Nickel Plate
	J 605	1.75	1.13	0.62	0.31	0.39	0.24	0.035	0.266	0.54	NA	JS Type Jumper
Г	J 621	0.69	0.44	0.30	0.17	0.38	0.07	0.015	0.141	0.11	0.14	(per 55164/28B)
	JS 600	0.62	0.38	0.25	0.12	0.16	0.04	0.015	0.156	0.08	0.16	
	JS 601	0.71	0.45	0.31	0.15	0.19	0.06	0.015	0.166	0.11	0.17	
	JS 602	0.91	0.56	0.37	0.18	0.27	0.08	0.015	0.190	0.16	0.14	mm = dim X 25.4
NO	TE 1: These parts a	are not neo	essarily su	pplied flat.	The	NOTE 2	: All dimen	sions are ap	plicable afte	r the bus		

NOTE 1: These parts are not necessarily supplied flat. The functioning of the part, however, will not be interfered.

NOTE 2: All dimensions are applicable after the bus (jumper) is torqued down into the associate terminal board



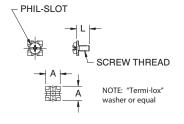
## **RJS Type Jumpers**



Material: Brass Finish: Nickel Plate

Note: 670A RZ, 599 Series, use 600 RJ

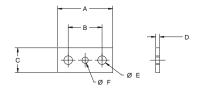
## Wire Clamp



Catalog #	Material	Finish	Screw Thread	L	Α
3786	Steel	Nickel	8-32 UNC	0.38	0.41
3765			6-32 UNC	0.31	0.33
3780	Brass	Nickel	8-32 UNC	0.38	0.41
3760			6-32 UNC	0.31	0.33
3860	Brass	Nickel	6-32 UNC	0.30	0.29
3865	Steel	Nickel	6-32 UNC	0.30	0.29

mm = dim X 25.4

## Straddle Plate



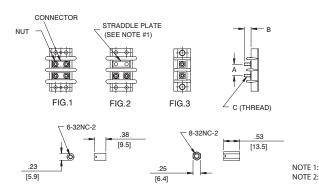
Catalog #	Α	В	С	D	E	F	Material	Finish
SPB 600	0.56	0.31	0.30	0.032	0.144	N/A	Brass	Tin
SPB 601	0.71	0.42	0.30	0.031	0.148	N/A	Brass	Nickel
SPB 602	0.87	0.50	0.40	0.032	0.189	N/A	Brass	Nickel
SPB 603	1.03	0.62	0.45	0.063	0.190	0.143	Brass	Tin
SPB 604	1.21	0.75	0.54	0.087	0.187	0.138	Brass	Tin
SPB 605	1.46	0.87	0.63	0.116	0.220	0.138	Brass	Nickel

mm = dim X 25.4



## Stud and Turret Terminal Blocks

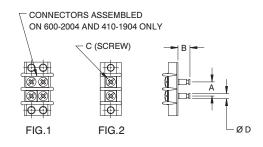
## **Threaded Stud**



Catalog #	Figure #	Α	В	С
599 GP 2002 XX	FIG 3	0.38	0.34	6-32 NC
600A GP 2002 XX	FIG 2	0.38	0.38	6-32 NC
601 GP 2102 XX	FIG 2	0.44	0.44	6-32 NC
602 GP 2202 XX	FIG 2	0.56	0.50	8-32 NC
603 GP 2302 XX	FIG 1	0.69	0.50	10-32 NF
604 GP 2402 XX	FIG 1	0.88	0.44	10-32 NF
605 GP 2502 XX	FIG 1	1.13	0.75	1/4-28 NF
699 GP 2102 XX	FIG 3	0.44	0.44	6-32 NC
812 GP 2202 XX	FIG 3	0.56	0.50	8-32 NC

Standard with block, but packed separately 604 and 605 nuts are part of the assembly. Additional nuts (one per stud) are supplied in bulk. XX = # of terminals

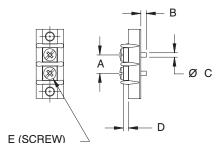
#### Screw Terminal with Feed-Thru Solder Terminal



Catalog #	Figure #	А	В	С	D
411 GP 1904 XX	FIG 2	0.25	0.28	2-56 NC X .19	0.11
599 GP 2004 XX	FIG 2	0.38	0.31	5-40 NC X .25	0.14
600 GP 2004 XX	FIG 1	0.38	0.31	5-40 NC X .25	0.14
601 GP 2104 XX	FIG 1	0.44	0.38	6-32 NC X .25	0.13
699 GP 2104 XX	FIG 2	0.44	0.38	6-32 NC X .25	0.13
812 GP 2204 XX	FIG 2	0.56	0.44	8-32 NC X .25	0.14

To ensure solderability, use within six (6) months. XX = # of terminals

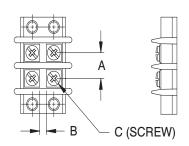
### Screw Terminal with Solder Pin for Printed Circuit Board Connection



Catalog #	А	В	С	D	E
599 GP 2020 XX	0.38	0.13	0.09	0.09	5-40 NC X .19
599 GP 2021 XX	0.38	0.13	0.09	0.03	5-40 NC X .19
699 GP 2120 XX	0.44	0.19	0.09	0.04	6-32 NC X .25
699 GP 2121 XX	0.44	0.20	0.06	0.04	6-32 NC X .25

To ensure solderability, use within six (6) months. XX = # of terminals

#### **Individual Screw Terminals**



Catalog #	Α	В	С
601 GP 2108 XX	0.44	0.09	6-32 NC X .25

XX = # of terminals



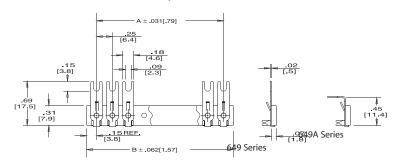
## Fanning Strips

- Terminals, Brass, Tin Plated
- Material: XP = Phenolic, Black

GME = Glass Cloth Melamine Per MIL-M-14 Light Brown Term

#### 649 Series

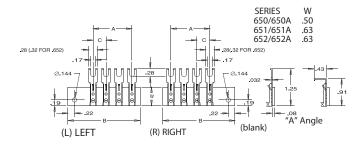
- For 410 and 411 Series Terminal Blocks
- Available in XP Phenolic Only



# of Term.	А	В	# of Term.	А	В
2	0.250	0.562	13	3.000	3.312
3	0.500	0.812	14	3.250	3.562
4	0.750	1.062	15	3.500	3.812
5	1.000	1.312	16	3.750	4.062
6	1.250	1.562	17	4.000	4.312
7	1.500	1.812	18	4.250	4.562
8	1.750	2.062	19	4.500	4.812
9	2.000	2.312	20	4.750	5.062
10	2.250	2.562	21	5.000	5.312
11	2.500	2.812	22	5.250	5.562
12	2.750	3.062			

#### 650/651/652 Series

- 650 Series for 599, 600, and 670A RZ Series Terminal Blocks
- 651 Series for 601 and 699 Series Terminal Blocks
- 652 Series for 602 and 812 Series Terminal Blocks



## Ordering Code

For convenience and accuracy in ordering, please specify catalog numbers as shown:

- For Marking Strips, use an "MS" prefix on the series
- For Insulator Strips, use an "IS" prefix on the series

Series	Mat. Code	Angle	Position	# of Terminals
652	XP	А	L	5
651	GME	(or blank)	R	
650			(or Blank)	
649				

SERIES	650 /	650A	651 /	651A	652 /	652A
С	3/8	(.375)	7/16	(.4375)	9/16 (	.5625)
# of Term.	А	В	А	В	А	В
2	.375	1.435	.437	1.497	.562	1.622
3	.750	1.810	.875	1.935	1.125	2.185
4	1.125	2.185	1.312	2.372	1.687	2.747
5	1.500	2.560	1.750	2.610	2.250	3.310
6	1.875	2.935	2.187	3.247	2.812	3.872
7	2.250	3.310	2.625	3.685	3.375	4.435
8	2.265	3.685	3.062	4.122	3.937	4.997
9	3.000	4.060	3.500	4.560	4.500	5.560
10	3.375	4.435	3.937	4.997	5.062	6.122
11	3.750	4.810	4.375	5.435	5.625	6.685
12	4.125	5.165	4.812	5.872	6.187	7.247
13	4.500	5.560	5.250	6.310	6.750	7.810
14	4.875	5.935	5.687	6.747	7.312	8.372
15	5.250	6.310	6.125	7.185	7.875	8.935
16	5.625	6.685	6.562	7.622	8.437	9.497
17	6.000	7.060	7.000	8.060	9.000	10.060
18	6.375	7.435	7.437	8.497	9.562	10.622
19	6.750	7.810	7.875	8.935	10.125	11.185
20	7.125	8.186	8.312	9.372	10.687	11.747
21	7.500	8.560	8.750	9.810	11.250	12.310
22	7.875	8.935	9.187	10.247	11.812	12.672
23			9.625	10.685	12.375	13.435
24					12.937	13.997
25					13.500	14.560
26					14.062	15.122

WWW.MARATHONSP.COM 419-352-8441 76



## Solder Terminal Lugs

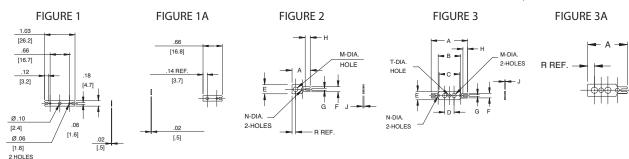
## ST and 3/4 ST Types

	Figure	Α	В	С	D	Е	F	G	Н	J	М	N	R	Т	
411 ST		See Figure 1										Also used on:			
411 3/4ST		See Figure 1A													
599 3/4ST	FIG 2	0.56				0.28	0.16	0.06	0.16	0.032	0.144	0.093	0.11		2590, 2590A
600 ST	FIG 3	1.22	0.75	0.69	0.31	0.28	0.16	0.06	0.16	0.032	0.144	0.093			600A,
600 3/4ST	FIG 3A	0.92			0.31	0.28	0.16	0.06	0.16	0.032	0.144	0.093	0.15		670A GP
601 ST	FIG 3	1.58	0.94	0.84	0.42	0.31	0.21	0.06	0.21	0.036	0.148	0.125			621 RZ
601 3/4ST	FIG 3A	1.17			0.42	0.31	0.21	0.06	0.21	0.036	0.148	0.125	0.17		021 KZ
602 ST	FIG 3	1.85	1.06	0.94	0.50	0.41	0.28	0.09	0.28	0.036	0.177	0.125			672 GP
602 3/4ST	FIG 3A	1.37			0.50	0.41	0.28	0.09	0.28	0.036	0.177	0.125	0.20		0/2 GP
699 3/4ST	FIG 2	0.70				0.31	0.21	0.06	0.21	0.032	0.146	0.125	0.13		1690, 2690
812 3/4ST	FIG 2	0.88				0.41	0.28	0.09	0.28	0.037	0.177	0.125	0.19		1090, 2090

 $mm = dim \times 25.4$ 

MSP Catalog Designations: ST = S 3/4ST = HS

To ensure solderability, use within six (6) months.



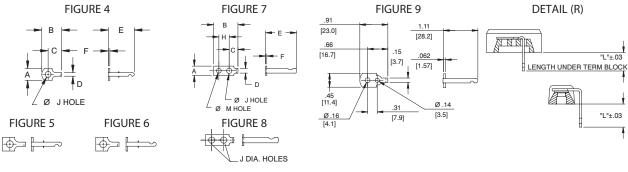
## $Y,\,YSY\,\,and\,\,Z\,\,Types\,\,\hbox{\tiny (Material: Brass Finish Electro-Tin Plated)}$

	Figure	Α	В	С	D	Е	F	Н	J	М	L (see detail R)	Also used On:
599Z, 600Y	FIG 6	0.28	0.48	0.33	0.085	0.63	0.036	NA	0.144	NA	599Z=0.31, 600Y=0.31	670A RZ
600YSY	FIG 6	0.28	0.48	0.33	0.085	0.82	0.036	NA	0.144	NA	0.50	670A RZ
600Z	FIG 7	0.28	0.73	0.25	0.140	0.94	0.036	0.31	0.160	0.143	0.62	670A RZ
699Z, 601Y	FIG 4	0.31	0.63	0.44	0.099	0.80	0.036	NA	0.148	NA	699Z=0.42, 601Y=0.42	
601YSY	FIG 5	0.31	0.63	0.44	0.099	1.07	0.040	NA	0.148	NA	0.69	
602Y	FIG 4	0.43	0.75	0.52	0.125	0.95	0.040	NA	0.177	NA	0.49	
812Z, 602YSY	FIG 5	0.40	0.70	0.52	0.125	1.13	0.040	NA	0.177	NA	812Z=0.64, 602YSY=0.67	
602Z	FIG 8	0.40	1.09	0.38	0.203	1.06	0.040	0.50	0.177	NA	0.60	
603Y	FIG 9		NOTE: For factory assembly only onto 603 Terminal Boards						0.60			
672 YSY	FIG 7	0.42	0.70	0.27	0.08	1.02	0.040	0.25	NA	0.14	0.56	300 series

 $mm = dim \times 25.4$ 

 $MSP\ Catalog\ Designations:\ Y=L\quad YSY=LSL$ 

To ensure solderability, use within six (6) months.



Figures 5  $\&\,6$  same as Figure 4 except as shown

Same as Figure 7 except as shown



(A-A-59125) / (MIL-T-55164)

Military Class: Closed Back

These military blocks feature molded-in terminals in an improved Kulka® design for greater strength and flexibility. The mounting holes are covered with molded-in reinforcement straddle plates.



MIL-T	59125/ -55164 mation	Terminal Type	Ve	oltage	Current	Wire & Lug Information				
Class	Spec #	Description	Max Rated	Dielectric with Test	Max Rated	Screw Size	RECMD Max Wire Size	MS17143 Lug #	Max Lug Width	RECMD Torque Lb-In (N-M)
37 TB	/1	Double Screw	300 V RMS	3000 V RMS	15 Amp 60 Hz	#6	#16 AWG	-11	0.282" [7.2]	8-10 [0.9-1.1]
38 TB	/2	Double Screw	600 V RMS	3400 V RMS	20 Amp 60 Hz	#6	#14 AWG	-14	0.31" [7.9]	8-10 [0.9-1.1]
39 TB	/3	Double Screw	600 V RMS	4000 V RMS	30 Amp 60 Hz	#8	#10 AWG	-9	0.41" [10.4]	10-12 [1.1-1.4]
40 TB	/4	Single Screw Feed Thru	300 V RMS	3000 V RMS	7.5 Amp 60 Hz	#6	#18 AWG	-10	0.282" [7.2]	8-10 [0.9-1.1]
41 TB	/5	Single Screw Feed Thru	600 V RMS	3400 V RMS	10 Amp 60 Hz	#6	#16 AWG	-14	0.31″ [7.9]	8-10 [0.9-1.1]
42 TB	/6	Single Screw Feed Thru	600 V RMS	4000 V RMS	15 Amp 60 Hz	#8	#14 AWG	-8	0.41" [10.4]	10-12 [1.1-1.4]

A-A-59125 superceeded MIL-T-55164-C in 1997.

These terminal blocks are compliant to the A-A-59125 standard and are constructed to meet both standards.

WWW.MARATHONSP.COM 419-352-8441 78



# Military Class (A-A-59125)

### 37TB-B/40TB-B Series

#### Specifications:

- A Kulka<sup>®</sup> Brand
- 300 volts AC/DC
- Base, valox 420-SEO, grey color, 130°C
- Closed back design
- Screws, brass nickel plate, 6-32 binder head, slotted
- Terminals, brass nickel plate
- 3/8" centers
- Flammability rating 94 V-O
- Wire size #16
- 15 amps
- Parts are supplied with end plates
- RoHS compliant



37TB04B

Catalog #	# of	Dime	nsions
Catalog #	Poles	А	В
37TB02B	2	1.41	1.12
37TB03B	3	1.78	1.50
37TB04B	4	2.16	1.88
37TB05B	5	2.53	2.25
37TB06B	6	2.91	2.62
37TB07B	7	3.28	3.00
37TB08B	8	3.66	3.38
37TB09B	9	4.03	3.75
37TB10B	10	4.41	4.12
37TB11B	11	4.78	4.50
37TB12B	12	5.16	4.88
37TB13B	13	5.53	5.25
37TB14B	14	5.91	5.62
37TB15B	15	6.28	6.00
37TB16B	16	6.66	6.38
37TB17B	17	7.03	6.75
37TB18B	18	7.41	7.12
37TB19B	19	7.78	7.50
37TB20B	20	8.16	7.88

#### **Hardware Options:**

Lug Types (Commercial):

3/4 ST 600 = Half Solder See Page 77

ST600 = Full Solder See Page 77

#### Feed-Thru Hardware Options:

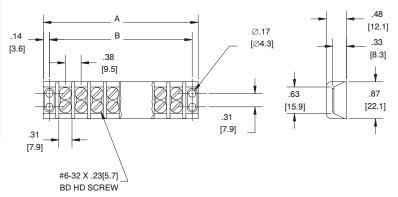
Long Feed-Thru Solder 40TB B Only

#### Accessories: (Jumper Commercial Grade)

 $\begin{aligned} & \text{Marking Strips} = \text{MSA, MSB, MSC} & \text{See Page 83} \\ & \text{Jumper} = \text{J600, 600RJ, 600RJ(S)} & \text{See Page 74} \end{aligned}$ 

#### **Service Options:**

Consult Customer Service





(A-A-59125) / (MIL-T-55164)

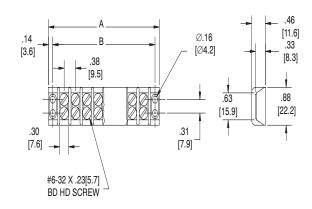
# 37TB-Military Class (A-A-59125/1)/(MIL-T-55164/1)

#### Molded Material:

- Plastic: grade F temperature rating 155°C per MIL-M-14
- Screws: Brass per QQ-W-321, nickel plated per QQ-N-290
- Terminal Plates: Brass per QQ-B-613, nickel plated per QQ-N-290

#### **Electrical Rating:**

- Rated voltage (maximum): 300 volts
- Current rating: 15 amps
- D.W.V.: 3000 volts RMS



Military Type	# - <b>f</b> D - l	Dimer	sions
Designation	# of Poles	А	В
37TB 02 F	2	1.360-1.453	1.109-1.156
37TB 03 F	3	1.735-1.828	1.484-1.531
37TB 04 F	4	2.110-2.203	1.859-1.906
37TB 05 F	5	2.500-2.593	2.234-2.281
37TB 06 F	6	2.876-2.969	2.609-2.656
37TB 07 F	7	3.250-3.343	2.984-3.031
37TB 08 F	8	3.626-3.719	3.359-3.406
37TB 09 F	9	4.000-4.093	3.734-3.781
37TB 10 F	10	4.376-4.469	4.109-4.156
37TB 11 F	11	4.750-4.843	4.484-4.531
37TB 12 F	12	5.126-5.219	4.859-4.906
37TB 13 F	13	5.500-5.593	5.234-5.281
37TB 14 F	14	5.876-5.969	5.609-5.656
37TB 15 F	15	6.250-6.365	5.969-6.047
37TB 16 F	16	6.626-6.735	6.344-6.422
37TB 17 F	17	7.000-7.109	6.719-6.797
37TB 18 F	18	7.376-7.485	7.094-7.172
37TB 19 F	19	7.752-7.812	7.469-7.547
37TB 20 F	20	8.127-8.187	7.844-7.922
37TB 21 F	21	8.502-8.562	8.219-8.297
37TB 22 F	22	8.877-8.937	8.594-8.672
37TB 23 F	23	9.252-9.312	8.969-9.047
37TB 24 F	24	9.627-9.687	9.344-9.422
37TB 25 F	25	10.002-10.062	9.719-9.797
37TB 26 F	26	10.377-10.437	10.094-10.172
37TB 27 F	27	10.752-10.812	10.469-10.547
37TB 28 F	28	11.127-11.187	10.844-10.922
37TB 29 F	29	11.502-11.562	11.219-11.297
37TB 30 F	30	11.877-11.937	11.594-11.672
37TB 31 F	31	12.252-12.312	11.969-12.047

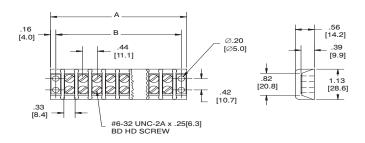
# 38TB-Military Class (A-A-59125/2)/(MIL-T-55164/2)

#### Molded Material:

- Plastic: grade F temperature rating 155°C per MIL-M-14
- Screws: brass per QQ-W-321, nickel plated per QQ-N-290
- Terminal plates: brass per QQ-B-613, nickel plated per QQ-N-290

#### **Electrical Rating:**

- · Rated voltage (maximum): 600 volts
- · Current rating: 20 amps
- D.W.V.: 3400 volts RMS



Military Type		Dimer	nsions		
Designation	# of Poles	А	В		
38TB 02 F	2	1.579-1.672	1.296-1.343		
38TB 03 F	3	2.016-2.109	1.734-1.781		
38TB 04 F	4	2.454-2.547	2.172-2.219		
38TB 05 F	5	2.891-2.984	2.609-2.656		
38TB 06 F	6	3.329-3.422	3.046-3.093		
38TB 07 F	7	3.766-3.859	3.484-3.531		
38TB 08 F	8	4.204-4.297	3.937-3.984		
38TB 09 F	9	4.641-4.734	4.375-4.422		
38TB 10 F	10	5.079-5.172	4.812-4.859		
38TB 11 F	11	5.532-5.625	5.250-5.297		
38TB 12 F	12	5.969-6.078	5.687-5.734		
38TB 13 F	13	6.407-6.516	6.110-6.188		
38TB 14 F	14	6.844-6.953	6.547-6.625		
38TB 15 F	15	7.282-7.391	6.985-7.063		
38TB 16 F	16	7.719-7.828	7.422-7.500		
38TB 17 F	17	8.157-8.266	7.860-7.938		
38TB 18 F	18	8.594-8.703	8.297-8.375		
38TB 19 F	19	9.079-9.156	8.750-8.828		
38TB 20 F	20	9.517-9.594	9.188-9.266		
38TB 21 F	21	9.954-10.031	9.625-9.703		
38TB 22 F	22	10.392-10.469	10.063-10.141		
38TB 23 F	23	10.829-10.906	10.500-10.578		



(A-A-59125) / (MIL-T-55164)

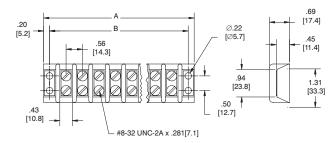
# 39TB-Military Class (A-A-59125/3)/(MIL-T-55164/3)

#### Molded Material:

- Plastic: Grade F temperature rating 155°C per MIL-M-14
- Screws: Brass per QQ-W-321, nickel plated per QQ-N-290
- Terminal Plates: Brass per QQ-B-613, nickel plated per QQ-N-290

#### **Electrical Rating:**

- Rated voltage (maximum): 600 volts
- Current rating: 30 Amps
- D.W.V.: 4000 volts RMS



Military Type	# of Poles	Dimer	nsions		
Designation	# of Poles	А	В		
39TB 02 F	2	2.047-2.140	1.672-1.719		
39TB 03 F	3	2.626-2.719	2.234-2.281		
39TB 04 F	4	3.188-3.281	2.796-2.843		
39TB 05 F	5	3.750-3.843	3.359-3.406		
39TB 06 F	6	4.313-4.406	3.922-3.969		
39TB 07 F	7	4.876-4.969	4.484-4.531		
39TB 08 F	8	5.438-5.531	5.046-5.093		
39TB 09 F	9	6.000-6.109	5.625-5.672		
39TB 10 F	10	6.563-6.672	6.172-6.250		
39TB 11 F	11	7.126-7.235	6.719-6.797		
39TB 12 F	12	7.688-7.797	7.297-7.375		
39TB 13 F	13	8.250-8.359	7.860-7.938		
39TB 14 F	14	8.813-8.922	8.422-8.500		
39TB 15 F	15	9.376-9.485	8.985-9.063		
39TB 16 F	16	9.938-10.047	9.547-9.625		
39TB 17 F	17	10.500-10.609	10.110-10.188		
39TB 18 F	18	11.079-11.188	10.672-10.750		

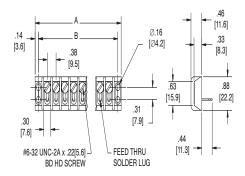
# 40TB-Military Class (A-A-59125/4)/(MIL-T-55164/4)

#### Molded Material:

- Same as 37 TB Class
- Hardware: lug, brass per QQ-B-613, tin plated

#### **Electrical Rating:**

- Rated voltage (maximum): 300 volts
- Current rating: 7.5 amps
- D.W.V.: 3000 volts RMS



Military Type	# - f D - l	Dimer	nsions	
Designation	# of Poles	Α	В	
40TB 02 F	2	1.360-1.453	1.109-1.156	
40TB 03 F	3	1.735-1.828	1.484-1.531	
40TB 04 F	4	2.110-2.203	1.859-1.906	
40TB 05 F	5	2.500-2.593	2.234-2.281	
40TB 06 F	6	2.876-2.969	2.609-2.656	
40TB 07 F	7	3.250-3.343	2.984-3.031	
40TB 08 F	8	3.626-3.719	3.359-3.406	
40TB 09 F	9	4.000-4.093	3.734-3.781	
40TB 10 F	10	4.376-4.469	4.109-4.156	
40TB 11 F	11	4.750-4.843	4.484-4.531	
40TB 12 F	12	5.126-5.219	4.859-4.906	
40TB 13 F	13	5.500-5.593	5.234-5.281	
40TB 14 F	14	5.876-5.969	5.609-5.656	
40TB 15 F	15	6.250-6.365	5.969-6.047	
40TB 16 F	16	6.626-6.735	6.344-6.422	
40TB 17 F	17	7.000-7.109	6.719-6.797	
40TB 18 F	18	7.376-7.485	7.094-7.172	
40TB 19 F	19	7.752-7.812	7.469-7.547	
40TB 20 F	20	8.127-8.187	7.844-7.922	
40TB 21 F	21	8.502-8.562	8.219-8.297	
40TB 22 F	22	8.877-8.937	8.594-8.672	
40TB 23 F	23	9.252-9.312	8.969-9.047	
40TB 24 F	24	9.627-9.687	9.344-9.422	
40TB 25 F	25	10.002-10.062	9.719-9.797	
40TB 26 F	26	10.377-10.437	10.094-10.172	
40TB 27 F	27	10.752-10.812	10.469-10.547	
40TB 28 F	28	11.127-11.187	10.844-10.922	
40TB 29 F	29	11.502-11.562	11.219-11.297	
40TB 30 F	30	11.877-11.937	11.594-11.672	
40TB 31 F	31	12.252-12.312	11.969-12.047	



(A-A-59125) / (MIL-T-55164)

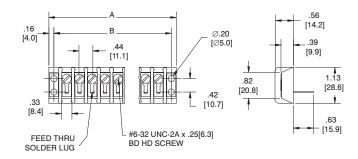
# 41TB-Military Class (A-A-59125/5)/(MIL-T-55164/5)

#### Molded Material:

- Same as 38TB Class
- · Hardware: Lug, Brass per QQ-B-613, tin plated

#### **Electrical Rating:**

- Rated voltage (maximum): 600 volts
- Current rating: 10 Amps
- D.W.V.: 3400 volts RMS



Military Type	# of Poles	Dimen	sions
Designation	# OI Poles	А	В
41TB 02 F	2	1.579-1.672	1.296-1.343
41TB 03 F	3	2.016-2.109	1.734-1.781
41TB 04 F	4	2.454-2.547	2.172-2.219
41TB 05 F	5	2.891-2.984	2.609-2.656
41TB 06 F	6	3.329-3.422	3.046-3.093
41TB 07 F	7	3.766-3.859	3.484-3.531
41TB 08 F	8	4.204-4.297	3.937-3.984
41TB 09 F	9	4.641-4.734	4.375-4.422
41TB 10 F	10	5.079-5.172	4.812-4.859
41TB 11 F	11	5.532-5.625	5.250-5.297
41TB 12 F	12	5.969-6.078	5.687-5.734
41TB 13 F	13	6.407-6.516	6.110-6.188
41TB 14 F	14	6.844-6.953	6.547-6.625
41TB 15 F	15	7.282-7.391	6.985-7.063
41TB 16 F	16	7.719-7.828	7.422-7.500
41TB 17 F	17	8.157-8.266	7.860-7.938
41TB 18 F	18	8.594-8.703	8.297-8.375
41TB 19 F	19	9.079-9.156	8.750-8.828
41TB 20 F	20	9.517-9.594	9.188-9.266
41TB 21 F	21	9.954-10.031	9.625-9.703
41TB 22 F	22	10.392-10.469	10.063-10.141
41TB 23 F	23	10.829-10.906	10.500-10.578

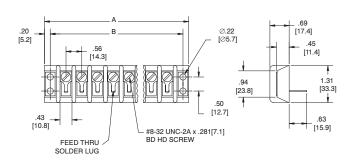
# 42TB-Military Class (A-A-59125/6)/(MIL-T-55164/6)

#### Molded Material:

- Same as 39TB Class
- Hardware: Lug, brass per QQ-B-613, tin plated

#### **Electrical Rating:**

- Rated voltage (maximum): 600 volts
- Current rating: 15 amps
- D.W.V.: 3400 volts RMS



Military Type	# of Poles	Dimensions				
Designation	# of Poles	А	В			
42TB 02 F	2	2.047-2.140	1.672-1.719			
42TB 03 F	3	2.626-2.719	2.234-2.281			
42TB 04 F	4	3.188-3.281	2.796-2.843			
42TB 05 F	5	3.750-3.843	3.359-3.406			
42TB 06 F	6	4.313-4.406	3.922-3.969			
42TB 07 F	7	4.876-4.969	4.484-4.531			
42TB 08 F	8	5.438-5.531	5.046-5.093			
42TB 09 F	9	6.000-6.109	5.625-5.672			
42TB 10 F	10	6.563-6.672	6.172-6.250			
42TB 11 F	11	7.126-7.235	6.719-6.797			
42TB 12 F	12	7.688-7.797	7.297-7.375			
42TB 13 F	13	8.250-8.359	7.860-7.938			
42TB 14 F	14	8.813-8.922	8.422-8.500			
42TB 15 F	15	9.376-9.485	8.985-9.063			
42TB 16 F	16	9.938-10.047	9.547-9.625			
42TB 17 F	17	10.500-10.609	10.110-10.188			
42TB 18 F	18	10.079-11.188	10.672-10.750			

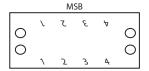


# Military Class Marking Strips

Marking Styles MSA, MSB, MSC

Top Surface of Marking Strip







Bottom Surface of Marking Strip







#### Requirements:

Type Mount: Bottom Only
Dimensions: See Below
Material: Type GME

Marking: Marking Strips shall be Marked in Accordance with CID A-A-59125

(can be provided to MIL T55164)

A single letter shall be inserted in the above type designation to specify the marking style (A, B or C).

Both the front and the back of the marking strips shall be marked as indicated. The numbers shall be marked at a  $45 \pm 2^{\circ}$  angle with reference to the side of the marking strip, as indicated.

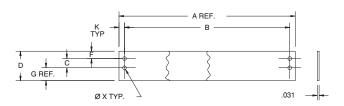
Type MSC37TB (blank single sided marking strip) shall have the same dimensions as type MSA.

Corios	Ctude C	Dimensions									
Series	Style C	D	F	G	K	W	Х	N*			
37TB		0.31	1.19	0.28	0.60	0.14	0.12	0.16	0.88		
40TB	]	0.51	1.50	0.59		0.14	0.13	0.10			
38TB	MSA, MSC	0.42	1.50	0.34	0.69	0.16	0.13	0.18	1.13		
41TB	MSB	0.42	1.75	0.67		0.16	0.13				
39TB		0.50	1.63	0.41	0.75	0.20	0.13	0.21	1.31		
42TB		0.50	2.00	0.69		0.20	0.13	0.21			

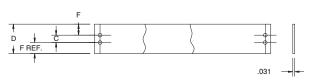
<sup>\*</sup>N dimension to replace D dimension for insulator strips \*\*Consult Customer Service on marking strips that are for terminal blocks with Z lugs.

For overall lengths, reference appropriate terminal block series A & B dimensions

Styles MSA & MSC:



Style MSB:





## Navy Class (A-A-59125) / (MIL-T-55164)

#### Notes:

Molded material is MAI-60 in accordance with MIL-M-14 ( $^+$ Molded material is GDI30F).

Nuts and connectors are provided when appropriate. They are unplated brass and shipped unassembled.



A-A-59125 55164 Info	•	Terminal Type	Volt	tage	Current		Wire	& Lug Inform	nation	
Class	Spec#	Description	Max Rated	Dielectric with Test	Max Rated	Screw Size	RECMD Max Wire Size	MS17143 Lug#	Max Lug Width	RECMD Torque Lb-In (N-M)
3 TB	/9	Single Stud Single Row	600V RMS	2000V RMS	45 Amp 60 Hz	#8	#10 AWG	-3	0.395" [10.0]	16-18 [1.8-2.0]
4 TB	/ 10	Single Stud Double Row	600 V RMS	2200 V RMS	40 Amp 60 Hz	#8	#12 AWG	-3	0.395" [10.0]	16-18 [1.8-2.0]
5 TB	/ 11	Feed Thru Stud Single Row	600 V RMS	2200 V RMS	50 Amp 60 Hz	#8	#10 AWG	-3	0.395" [10.0]	16-18 [1.8-2.0]
6 TB	/ 12	Single Stud Double Row	600 V RMS	2200 V RMS	30 Amp 60 Hz	#6	#14 AWG	-5	0.307" [7.8]	10-12 [1.1-1.4]
7 TB	/ 13	Feed Thru Stud Single Row	600 V RMS	2200 V RMS	40 Amp 60 Hz	#6	#12 AWG	-6	0.307" [7.8]	10-12 [1.1-1.4]
8 TB	/ 14	Double Stud Double Row	300 V RMS	1500 V RMS	30 Amp 60 Hz	#5	#14 AWG	-11	0.282" [7.2]	8-10 [0.9-1.1]
9 TB	/ 15	Single Stud Single Row	300 V RMS	1500 V RMS	35 Amp 60 Hz	#6	#12 AWG	_	0.307" [7.8]	10-12 [1.1-1.4]
10 TB	/ 16	Single Stud Double Row	600 V RMS	2200 V RMS	30 Amp 60 Hz	#6	#14 AWG	_	0.242" [6.11]	10-12 [1.1-1.4]
11 TB	/ 17	Feed Thru Stud Single Row	600 V RMS	2200 V RMS	40 Amp 60 Hz	#6	#12 AWG	-15	0.242" [6.1]	10-12 [1.1-1.4]
15 TB	/ 19	Single Stud Double Row	600 V RMS	2200 V RMS	30 Amp 60 Hz	#8	#14 AWG	-8	0.307" [7.8]	16-18 [1.8-2.0]
16 TB	/ 20	Single Stud Double Row	1000 V RMS	3000 V RMS	40 Amp 60 Hz	#8	#12 AWG	-3	0.395" [10.0]	16-18 [1.8-2.0]
17 TB	/ 21	Double Stud Double Row	600 V RMS	2200 V RMS	40 Amp 60 Hz	#6	#12 AWG	-3	0.395" [10.0]	10-12 [1.1-1.4]
25 TB	/ 23	Single Stud Single Row	300 V RMS	1500 V RMS	25 Amp 60 Hz	#4	#14 AWG	-17	0.242" [6.1]	6-8 [0.7-0.9]
26 TB	/ 24	Double Stud Double Row	300 V RMS	1500 V RMS	20 Amp 60 Hz	#4	#16 AWG	-20	0.242" [6.1]	6-8 [0.7-0.9]

A-A-59125 superceeded MIL-T-55164-C in 1997.

These terminal blocks are compliant to the A-A-59125 standard and are constructed to meet both standards.

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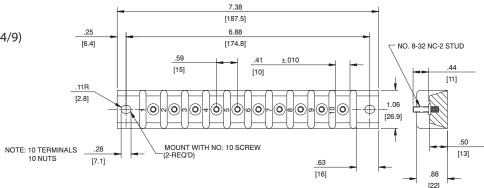
# **Navy Class**

(A-A-59125) / (MIL-T-55164)

#### **3TB SERIES**

(A-A-59125/9) / MIL-T-55164/9)

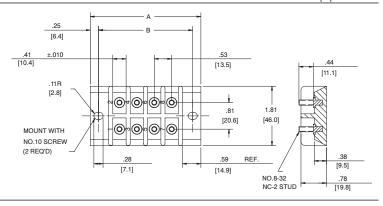
Catalog number: 3TB10F



#### **4TB SERIES**

(A-A-59125/10) / (MIL-T-55164/10)

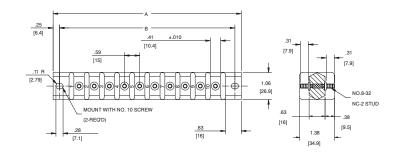
Double Row, Front Connection					
Туре	# of Term	Dim A	Dim B	Nuts	
4 TB 08F	8	3.38	2.88	8	



#### **5TB SERIES**

(A-A-59125/11) / (MIL-T-55164/11)

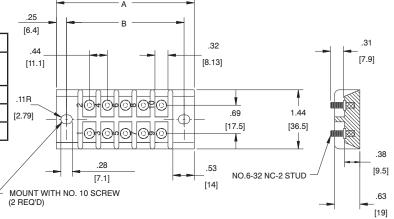
Single Row, Through Connection						
Type	# of Term	Dim A	Dim B	Nuts		
5 TB 08F	8	6.13	5.63	16		
5 TB 10F	10	7.38	6.88	20		



#### **6TB SERIES**

(A-A-59125/12) / (MIL-T-55164/12)

Double Row, Front Connection					
Туре	# of Term	Dim A	Dim B	Nuts	
6 TB 06F	6	2.50	2.00	6	
6 TB 10F	10	3.38	2.88	10	
6 TB 24F	24	6.50	6.00	24	





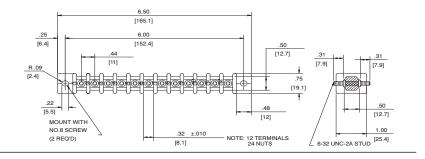
# **Navy Class**

(A-A-59125) / (MIL-T-55164)

#### **7TB SERIES**

(A-A-59125/13) / (MIL-T-55164/13)

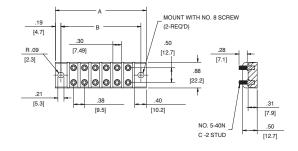
Catalog number: 7TB12F



#### **8TB SERIES**

(A-A-59125/14) / (MIL-T-55164/14)

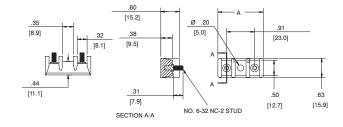
Double Row, Linked Front Connection						
	# of Term		Dim.	Dim		
Type	w/stud connectors	w/o stud connectors	A	Dim. B	Nuts	
8 TB 02F	2	4	1.63	1.25	4	
8 TB 06F	6	12	3.13	2.75	12	
8 TB 08F	8	16	3.88	3.50	16	
8 TB 10F	10	20	4.63	4.25	20	



#### **9TB SERIES**

(A-A-59125/15) / (MIL-T-55164/15)

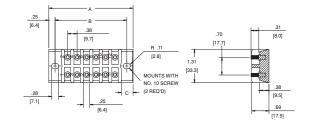
Single Row, Front Connection					
Туре	oe # of Term Dim. A Nuts				
9 TB 02F	2	1.48	2		
9 TB 04F	4	2.37	4		



#### **10TB SERIES**

(A-A-59125/16) / (MIL-T-55164/16)

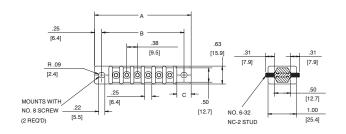
Double Row, Front Connection						
Туре	# of Term	Dim. A	Dim. B	Dim. C	Nuts	
10 TB 18F	18	4.63	4.13	0.56	18	
10 TB 28F	28	6.50	6.00	0.56	28	



#### 11TB SERIES

(A-A-59125/17) / (MIL-T-55164/17)

Single Row, Through Connection						
Туре	# of Term	Dim. A	Dim. B	Dim. C	Nuts	
11 TB 04F	4	2.50	2.00	0.44	8	
11 TB 06F	6	3.38	2.88	0.44	12	
11 TB 14F	14	6.50	6.00	0.56	28	





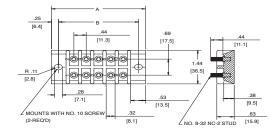
# Navy Class

(A-A59125) / (MIL-T-55164)

#### **15TB SERIES**

(A-A-59125/19) / (MIL-T-55164/19)

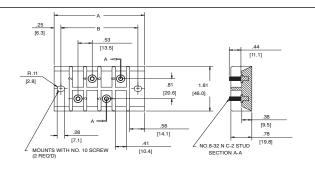
Double Row, Front Connection						
Туре	ype # of Term Dim. A Dim. B Nut:					
15 TB 10F	10	3.38	2.88	10		
15 TB 24F	24	6.50	6.00	24		



#### **16TB SERIES**

(A-A-59125/20) / (MIL-T-55164/20)

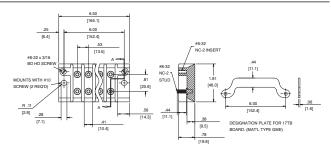
Double Row, Front Connection						
Туре	rpe # of Term Dim. A Dim. B Nuts					
16 TB 04F	4	3.38	2.88	4		
16 TB 10F	10	6.50	6.00	10		



#### 17TB SERIES

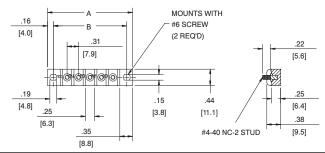
(A-A-59125/21) / (MIL-T-55164/21)

Double Row, Front Connection						
	# of Term		D:	Dim.		
Туре	w/stud	w/o stud	Dim. A	B B	Nuts	
	connectors	connectors				
17 TB 10F	10	20	6.50	6.00	10	



#### 25TB SERIES

(A-A-59125/23) / (MIL-T-55164/23)

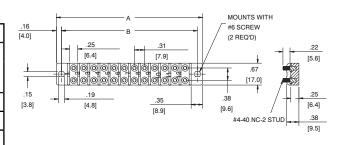


Single Row, Front Connection						
Туре	# of Term	n Dim. A Dim. B		Nuts		
25 TB 02F	2	1.38	1.06	2		
25 TB 05F	5	2.31	2.00	5		
25 TB 06F	6	2.63	2.31	6		
25 TB 07F	7	2.94	2.63	7		
25 TB 09F	9	3.56	3.25	9		
25 TB 10F	10	3.88	3.56	10		
25 TB 12F	12	4.50	4.19	12		

#### **26TB SERIES**

(A-A-59125/24) / (MIL-T-55164/24)

Double Row, Linked Front Connection						
	# of Term		Dim.	Dim		
Type	w/stud connectors		A	Dim. B	Nuts	
26 TB 06F	6	12	2.63	2.31	12	
26 TB 08F	8	16	3.25	2.94	16	
26 TB 10F	10	20	3.88	3.56	20	
26 TB 12F	12	24	4.50	4.19	24	





#### General Information:

Sectionals are terminal blocks which are made up of individually molded units with electrically conductive members. Marathon offers barrier sectionals from 3/8" to 1/2" pitch, Euro style sectionals from 5mm to 12mm pitch with fusing, disconnection and grounding options. These sectionals will mount on either a standard 35mm DIN rail, channel rail, or panel (anchor directly).

#### Ratings and Standards:

The voltage ratings of terminal blocks are based upon the minimum spacing between electrically conductive parts line-to-line through air and over surface and line-to-ground through air and over surface.

#### Class A

Service equipment including deadfront switchboards, panel boards and service entrance devices.

Class B

Commercial appliances including business equipment and electronic data processing equipment.

Class C

General industrial and machine tool controls which can be further defined as equipment falling under UL 508.

#### Spacing Requirements (in inches):

	Voltage	Thru Air	Over Surface
	51-150	.500	.750
Class A	151-300	.750	1.250
	301-600	1.000	2.000
	51-150	.063	.063
Class B	151-300	.094	.094
	301-600	.375	.500
	51-150	.125	.250
Class C	151-300	.250	.375
	301-600	.375	.500

#### Applications:

Designed for electrical termination of wire where flexibility of circuit design is necessary. Accepts single or multiple wire sizes for tubular screw and tubular clamp styles.

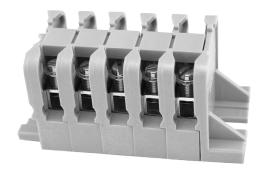
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## 3/8" Sectional Channel (C), Flat (F), & DIN Mount

#### **Specifications:**

- 600 volts AC/DC
- 32 circuits per foot
- Meets IP20 touchproof requirement
- UL recognized file no. XCFR2.E62806
- CSA certified file no. LR19766
- CE compliant
- RoHS compliant



6G38 TS KK F

#### 6G38 TS - Tubular Screw Connector

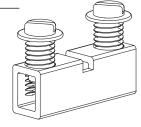
#### Materials:

- Base grey thermoplastic, 125°C (UL RTI)
- Tubular screw connector- copper, tin plated
- Screw #10-32 steel, nickel plated
- Wire termination torque 16 in-lb

#### Wire Ranges:

- 50 amps (40 Amps CSA)
- Single and multiple wire combinations:

Stranded CU (1) #8 - #18 AWG (1-3) #12 AWG (1-4) #14 AWG Solid CU (1) #10 - #16 AWG (1-3) #12 AWG (1-4) #14 or #16 AWG



#### Ordering Code:

6G38 TS F	Flat mount block	Std pk 100	See Figure 2 On Page 90
6G38 TS C	Channel mount block	Std pk 100	See Figure 1 On Page 90
6G38 TS DIN	DIN mount block	Std pk 25	See Figure 3 On Page 90

#### 6G38 TSKK - TS with Wire Protector Connector

#### Materials:

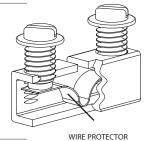
- Base grey thermoplastic, 125°C (UL RTI)
- Kant Kut connector- copper, tin plated
- Screw #10-32, nickel plated, pad steel
- Wire termination torque 16 in-lb

#### Wire Ranges:

- 40 Amps
- · Single and multiple wire combinations:

Stranded CU (1) #10-#22 AWG (1-2) #12 AWG Solid CU (1) #10 - #14 AWG (1-2) #12 or #14 AWG

(1-3) #14 AWG (1-4) #16 AWG (1-5) #18 or #22 AWG



#### Ordering Code:

6G38 TSKK F	Flat mount block	Std pk 100	See Figure 2 On Page 90
6G38 TSKK C	Channel mount block	Std pk 100	See Figure 1 On Page 90
6G38 TSKK DIN	DIN mount block	Std pk 25	See Figure 3 On Page 90



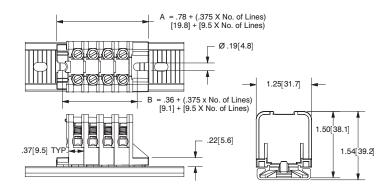
## Sectional Terminal Block Accessories

Catalog #	Description	Std Pk	Catalog #	Description	Std Pk
J 38	Jumper for TS and TSKK	50	MSK35	End bracket for DIN mount base	25
МС	Mounting Clamp (For channel style only)	25	6G38 E C 6G38 E F 6G38 E DIN	End bracket for 6G38 versions	25
MS 2	Vinyl Marking Strip (1/2" x 2' white)	25	MPC-3 (3 ft channel) MPC-6 (6 ft channel)	Channel	1
MN35-2	DIN Rail, 35 x 7.5 mm 2 m long, slotted	25			

Sectional Terminal Block Dimensions - 6G38 TS & TSKK

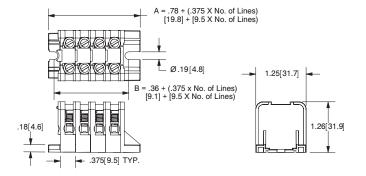
## FIGURE 1:

**Channel Mount** 



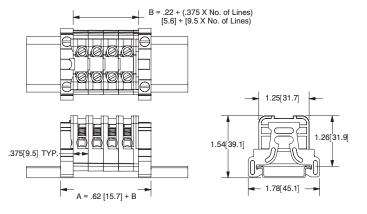
### FIGURE 2:

Flat Mount



## FIGURE 3:

**DIN Mount** 





## 7/16" Sectional Terminal Block

#### Specifications:

- 600 volts AC/DC, 40 amp
- 65kA SCCR (see data sheet for details)
- 27 circuits per foot
- UL recognized file no. XCFR2.E62806, XCFR8.E62806
- CSA certified file no. LR19766
- CE compliant
- RoHS compliant



#### 6G44 SP DIN - SEMS Pressure Connector, DIN Mounted

#### Materials:

#### Base - grey thermoplastic, 125°C (UL RTI)

- · Connector brass, tin plated
- Screw #6 with pad, steel, nickel plated

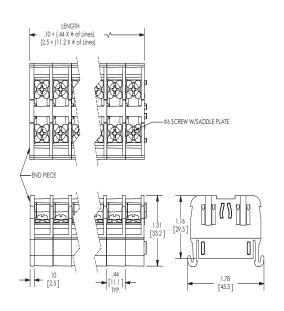
#### Wire Ranges:

- CU only, Str/Sol
- Base wire:
   (1) #12-#22 AWG
   (1-2) #22-12 AWG
   Classes B, C, G, H, I, K
   Wire termination torque 10 lb-in

Prepared wire (lug or spade): (1-2) #10-16 AWG

#### Sectional Terminal Block Accessories

Catalog #	Description	Std Pk
6G44 E DIN	End Sections	25
MS 44	7/16 Marking strip (4' long, white)	6
601 RJS XX	Jumper (various lengths)	N/A
MSK35	End Bracket for DIN Rail	25
MN35-2	DIN Rail 35 x 7.5 mm 2m long, slotted	N/A





### 1/2" Sectional

#### Specifications:

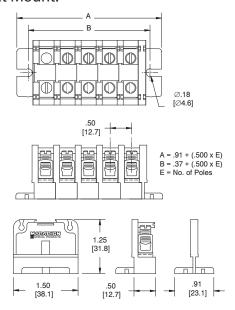
- 600 volts AC/DC
- 24 circuits per foot
- Base, white nylon type 6/6 105°C
- Tubular screw (TSCU) copper, tin plated;
   Screw #1/4-28 steel, nickel plated
- Wire range #4-#16 AWG copper, 70 amps
- Torque 20 lb-in
- UL recognized file no. XCFR2.E62806
- CSA certified file no. LR19766
- CE compliant
- RoHS compliant



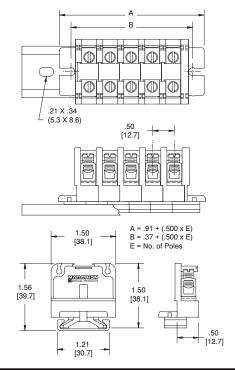
6H12 TSCU C

Catalog #	Description	Std Pk	Catalog #	Description	Std Pk
6H12 TSCU F For flat mount block	Tubular Screw	50	J 12	Jumper	50
6H12 TSCU C For channel mount block	Tubular Screw	50	МС	Mounting Clamp	25
6H12 E F For flat mount block	End Section	25	MPC-3 (3 ft channel) MPC-6 (6 ft channel)	Channel	1
6H12 E C For channel mount block	End Section	25	MS 2	Vinyl Marking Strip - 1/2" x 2'	25

#### Flat Mount:



#### **Channel Mount:**





## DIN (Euro-Style) Sectionals

#### Specifications:

- Insulating material:
  - Nylon- 6/6, grey
  - UL 94V-2 flammability rating
  - 100°C / 212°F continuous, 170°C / 338°F intermittent & short exposure
- Connector, copper, nickel plated
- · Screws, steel, zinc plated
- Integrated pressure plate to avoid wire damage
- For identification labels see page 94

#### Standards:

- UL recognized file no. XCFR2.E62806
- CSA certified file no. LR700930
- VDF
- CE compliant
- RoHS compliant

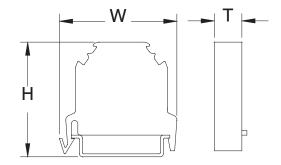
Catalan #	Wine Denne		Amps		Volts	Dimensions (mm)			Terminals	Terminals Terminal	Description
Catalog #	Wire Range	UL	CSA	VDE	VOILS	Т	W	Н	per foot	Torque	Description
MIK3	#12-#22 AWG	20	25	26	600	5	42	36	60	5	Terminal
MIK5	#10-#22 AWG	30	25	24	600	6	42	38	50	13.3	Terminal
MIK10	#8-#22 AWG	50	50	61	600	8	42	44	38	13.3	Terminal
MIK16	#6-#22 AWG	65	68	82	600	10	42	44	30	18	Terminal
MIK25	#4-#8 AWG	85	70	108	600	12	50	48	25	53	Terminal
MIKTS4	#12-#22 AWG	20	20	16	300	6	42	53	50	-	Disconnect
MIKSI5	#10-#20 AWG	10	-	6	300	8	60	47	38	-	Fused Terminal 1
MIKE4	#10-#22 AWG	-	-	-	-	7	56	38	-	8.0	Grounding Lug <sup>2</sup>
MIKE10	#8 AWG	-	-	-	-	8	56	44	-	13.3	Grounding Lug <sup>2</sup>
MIKE16	#6 AWG	-	-	-	-	10	56	44	-	18	Grounding Lug <sup>2</sup>

<sup>&</sup>lt;sup>1</sup> UL File No. E35113, For Fuse Type - 5x20 or 5x25 mm

Dimensions:

H = HeightW = Width

T = Thickness





Terminal (MIK5)



Disconnect Terminal (MIKTS4)



Fused Terminal (MIKSI5)



Grounding Lug
(MIKE10)

<sup>&</sup>lt;sup>2</sup> Grounding Lugs are Green/Yellow Nylon



## DIN (Euro-Style) Sectionals

#### Hardware:

- Insulating end sections cover the last terminal of an assembly
- Insulating partitions for visual and electrical separation of terminals grouped on DIN rail
- 2-position jumpers connect two adjacent terminals (middle portion snaps off to assemble)
- 12-position jumpers connects up to 12 adjacent terminals (middle portion snaps off to assemble)
- Jumper can be easily cut to length to connect smaller assemblies
- Connecting strap for linking two adjacent 12-pole jumpers
- Safety cover cover with warning label for line terminals which cannot be disconnected
- · End brackets anchors on both ends of terminal assemblies to hold the assembly in place
- DIN rail standard 35 x 7.5 mm DIN rail, cut in 2 meter lengths with slots for mounting (steel, zinc plated)

	MIK3	MIK5	MIK10	MIK16	MIK25	MIKTS4	MIKS15		
Hardware	Hardware								
Insulating End Sections	MIW2	MIW4	MIW16	MIW16	MIW50	MIW4	-		
Insulating Partitions	MIW4	MIW16	MIW50	MIW50	MIW70	-	MIW50		
2-Position Jumper	MVB2-2	MVB4-2	MVB6-2	MVB16-2	MVB25	-	-		
12-Position Jumper	MVB2-12	MVB4-12	MVB6-12	MVB16-12	-	-	-		
Connecting Strap	MVL2-2	MVL4-2	MVL6-2	MVL16-2	MVL25	-	-		
Safety Cover	MK	MKAW2		MKAW16	MKAW25	-	-		
End Bracket/Anchor		MSK35							
DIN Rail		MN35-2							

MSK35 - End Bracket Securing Torque 7-9 lb-in (.8-1 N-m)

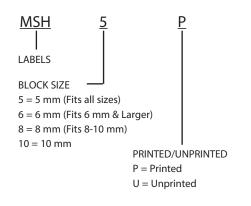
## Universal Identification Labels Type MSH

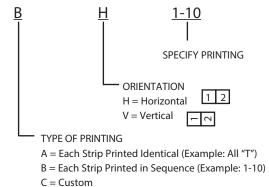
#### **Specifications:**

- · Available plain, with numbers, letters or symbols
- Can be labeled vertically or horizontally
- Single label MSH 5 can be used for all sizes
- MSH5 & 6 are sold in ten strips of ten,
   MSH8 & 10 are sold in ten strips of five
- · RoHS compliant



#### Ordering Code:







## **Fuse Holders**

Marathon Special Products provides many NEMA/barrier style fuse holders with different terminal options for the majority of North American fuses and several enclosed (European/IEC) styles.

Class	Page #	Styles	Applications	Amp/ Volt Range	Withstand/ SCCR
Photovoltaic	97	Enclosed	Designed for bus bar termination. Uniquely designed with terminals to accept standard stock bus bar eliminating the need for custom fabricated bus bar.	Up to 30A 1000 V	30,000
NAT-LI	98	Barrier	Supplemental fuses similar to the size of a CC,	20.60.4	C
Midget (10x38)	-	Sectional	used in more general applications where current	30-60 A 600 V	See Data sheets
(10,50)	100	Enclosed	limitation requirements are lower.	000 V	Data sirects
CC Class	101	Barrier	For branch and small motor protection where high	30-60 A	200,000
CC Class	102	Enclosed	current limitation is required.	600 V	200,000
J Class	103	Barrier, Open	For maximum protection of motors, controllers or panels.	30-600 A 250-600 V	200,000
	104	Enclosed		250-600 V	
R Class	105	Barrier	For higher levels of protection at the same size of the H Class, where higher levels of fault current potential exists.	30-600 A 250-600 V	200,000
	106	Barrier	For protection where frequent outages are	20.600.4	
H Class	107 - 108	Panel- Board	common and low levels of available fault current are available.	30-600 A 250-600 V	10,000
T Class	109	Barrier, Open	For a high degree of protection and half to a third the size of R Class fuses.	30-600 A 300-600 V	200,000
G Class	110	Barrier, Open	For use in branch circuits where higher performance and lower power levels are needed.	15-30 A 480-600 V	100,000
General Purpose (Semi- Cond.)	111 - 114	Stud, Stud / Terminal	Recognized fuse holders for semi-conductor, L Class or others with variable geometry and include bolt down mounting profiles.	100-1200 A 1000 V	See Data sheets
Accessories	115 - 116	Covers, DIN-Rail Adapters	H, R, J, CC & M styles.	N/A	N/A

Go to WWW.MARATHONSP.COM for:

Product specific data sheets (includes detailed drawings & SCCR Ratings)

Request 2D/3D CAD files Check distributor stock Request samples







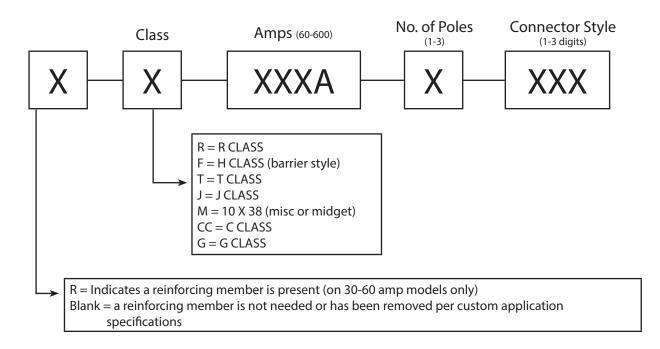
## **Fuse Holders**

Wire Connector Styles

Hardware Options		Description	Illustration
S	Screw	Standard screw fastener primarily for ring/spade/fork terminals or small bare wire.	
SQ	Screw with Quick Connects	Screw terminal with additional ¼" male quick-connect options.	
SP	SEMS Pressure Connector	Screw with a captive washer to provide more contact area for larger bare wire termination .	
SPQ	SEMS Pressure Connector w/ Quick Connects	SP option with additional 1/4" male quick-connect options.	
В	Box (or Compression) Terminals	Box connectors are ideal for large bare wire (up to 60A) termination.	

#### CATALOG NUMBER NOMENCLATURE

-Excludes panel boards, enclosed and general purpose / recognized types.





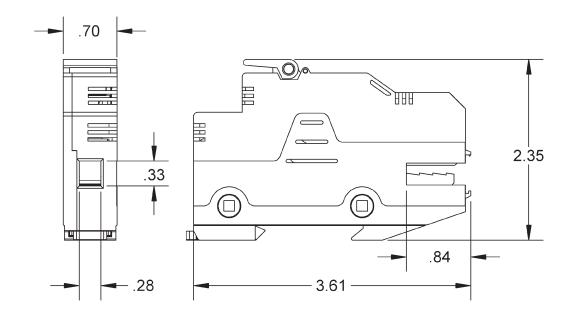
# **Enclosed PV10BW Fuse Holders**

#### Specifications:

- Up to 30 amps @ 1000 volts
- Evaluated for use with midget 10x38mm fuses
- 30,000 amp SC withstand rating
- UL recognized UL4248-18
- CSA certified
- Bus bar terminal clamp (patent pending)
- Bare wire terminal for use with 90°C wire
- 94 V-2 flammability rating
- 130°C (266°F) UL RTI
- Gangable for multi-string configurations
- Has shown a 16% reduction in temperature over competitive models in high ambient testing



Catalog #	Description
PV10BW	Fuse Holder - midget (10 x 38mm) PV fuses
PV10BWI	Fuse Holder with (red) blown fuse indicator - for PV fuse sized 10x38mm
MSH10	Marker Card - single white, snap-in labels 10mm wide for individual identification
EFH-MCCK C	Ganging Clips - used to group multiple fuse holders together as an assembly
MS 2	Front Cover - white 2' long strip to be cut to length and cover a set of holders
ECPVFH	End Cap - covers the end opening(s) of the bus bar terminal
MN35-2	Din Rail - 35 x 7.5 x 200mm long, slotted
MSK35	End Bracket - for anchoring in place on din rail







# Midget Barrier Fuse Holders

#### Specifications:

- Available in 30 amp @ 600 volts
- Evaluated for use with midget 10x38mm fuses
- 100,000 amp SC withstand rating
- Copper box connectors available (add CU after catalog number)
- Clip, copper alloy, tin plated
- Quick connect standard with screw (S) or SEMS pressure (SP)
- UL recognized file no. IZLT2.E35113
- CSA certified file no. LR21455
- · CE compliant
- RoHS compliant



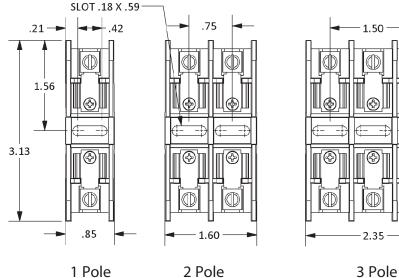
6M30A3SPQ

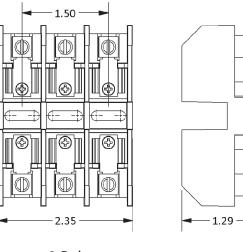
#### 600 Volts

Amps	Catalog # (replace "X" with # of poles)	Poles (X)	Base Materials	Wire Range
	6M30AxSQ			#10-#22 AWG CU
30	6M30AxSPQ	1/2/3	Thermoplastic	#10-#14 AWG CU
30	6M30AxB	1/2/3	memoplastic	#6-#14 AWG CU
	6M30AxBCU			#6-#14 AWG CU

See page 115 for available covers See page 116 for DIN Rail Adapter









# Midget Enclosed Fuse Holders

#### Specifications:

- 30 amps @ 600/1000 volts
- Evaluated for use with midget 10x38mm fuses
- 200,000 amp SC withstand rating
- DIN rail mount (35mm)
- Touchsafe design IEC type IP20
- · Handle allows quick easy fuse change
- Blown fuse indication available
- Indication light AC and DC 65 VAC, 90 VDC volts minimum
- Base Materials: thermoplastic
- UL recognized for US and Canada, IZLT2.E35113, IZLT8.E35113
- CE compliant
- · RoHS compliant



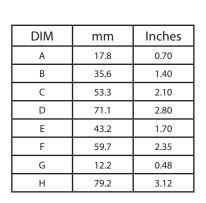
Shown top to bottom (left to right): 6SM30A3I-C, 6SM30A1-C, 6SM30A1-C shown with fuse (fuse not included)

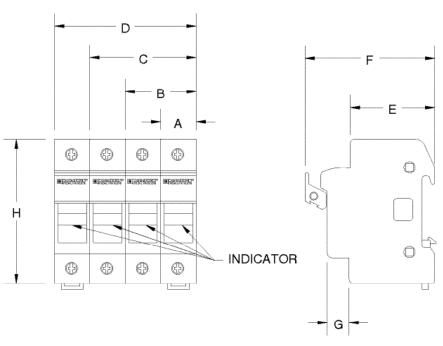


#### 600/1000 Volts

Amps	Voltage (AC/DC)	Catalog # (replace "X" with # of poles)	Indicating	Poles (X)	Wire Range
30	1000	6SM30Ax-C	NO	1/2/3/4	(1) #6-#18 CU STRANDED
	600	6SM30AxI-C	YES		(1) #10-#18 SOLID (2) #10-#18 STRANDED

EFK-MCKK - Pin kit (used for ganging multiple poles) - includes 10 handle pins and 20 body clips, use one handle pin and two body clips per pole





# Midget Sectional Fuse Holders

#### Specifications:

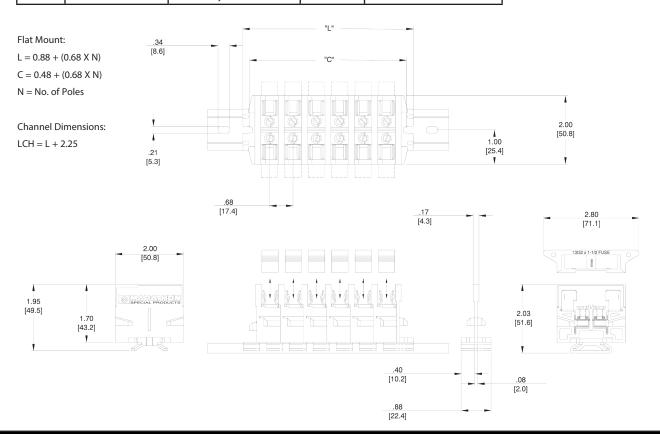
- 30 amps @ 600 volts
- Evaluated for use with midget 10x38mm fuses
- 10,000 amp SC withstand rating
- Base, white nylon type 6/6, 105°C
- Connector box type
- Accepts up to #10 AWG wire, either terminated or non-terminated
- · Clip, copper alloy, tin plated
- UL recognized file no. IZLT2.E35113
- CSA certified file no. LR21455
- CE compliant
- RoHS compliant



6W30A1F with end piece (fuse not included)

#### 600 Volts

Amps	Catalog # (replace "X" with # of poles)	Description	Standard Pack	Wire Range
	6W30A1F	Flat Mount		
	6W30A1C	Channel Mount	10	
	6WEF	End Piece (Flat)	10	
[	6WEC	End Piece (Channel)		#10-#14 AWG CU
30	MC	Mounting Clamp	25	STRANDED
	MPC-6	6 Foot Channel		
	MPS-3	3 Foot Channel	] _	
	GR-2	1/8" Diameter x 2' Long Nylon Rod		





# Class CC Fuse Holders

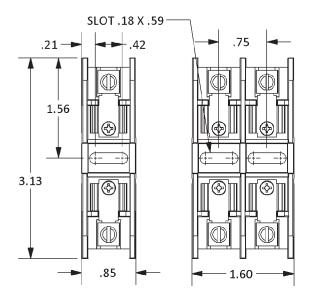
#### Specifications:

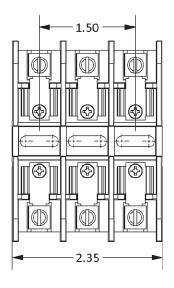
- Available in 30 and 60 amp @ 600 volts
- 200,000 amp SC withstand rating
- Copper box connectors available (add CU after catalog number)
- Clip, copper alloy, tin plated with patented reject member
- Expander block available
- Quick connect standard with screw (S) or SEMS pressure (SP)
- For box connectors, internal hex screw option is available
- 30 Amp UL listed file no. IZLT.E35113
- 60 Amp UL listed file no. IZLT.E35113, Class CD
- 30 Amp CSA certified file no. LR21455
- 60 Amp CSA certified file no. LR21455-91
- CE compliant
- RoHS compliant

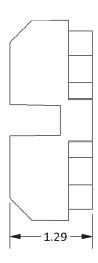


600 Volts

Amps	Catalog # (replace "X" with # of poles)	Poles (X) (E=expander)	Base Materials	Wire Range
	6CC30AxSQ		Thermoplastic	#10-#22 AWG CU
30	6CC30AxSPQ	1/2/2		#10-#14 AWG CU
	6CC30AxB	1/2/3		#6-#14 AWG CU
	6CC30AxBCU			
60	R6CC60AxB	1/2/3/E		#2-#14 AWG CU #2-#12 AWG AL











# Class CC Enclosed Fuse Holders

#### Specifications:

- 30 amps @ 600 volts AC/DC
- 200,000 amp SC withstand rating
- DIN rail mount (35mm)
- Touchsafe design IEC type IP20
- Handle allows quick easy fuse change
- Blown fuse indication available
- Indication light AC and DC 65 VAC, 90 VDC volts minimum
- Base materials: thermoplastic
- UL listed for US file no. IZLT.E35113, UL certified for Canada file no. IZLT7.E35113
- CE compliant
- · RoHS compliant

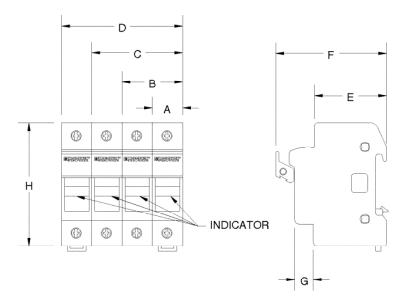


#### 600 Volts

Amps	Catalog # (Replace "X" with # of poles)	Indicating	Poles	Wire Range
	6SC30Ax-C	No		1) #6-#18 CU Stranded
30	6SC30AxI-C	Yes	1/2/3/4	1) #10-#18 Solid 2) #10-#18 Stranded

EFK-MCKK - Pin kit (used for ganging multiple poles) - includes 10 handle pins and 20 body clips, use one handle pin and two body clips per pole

DIM	mm	Inches	
А	17.8	0.70	
В	35.6	1.40	
С	53.3	2.10	
D	71.1	2.80	
E	43.2	1.70	
F	59.7	2.35	
G	12.2	0.48	
Н	79.2	3.12	



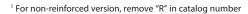


# **Class J Fuse Holders**

#### Specifications:

- Available in 30, 60, 100, 200, 400 & 600 amps @ 600 volts
- Copper box connectors available on 30 and 60 amp (add CU after catalog number)
- 200,000 amp SC withstand rating
- UL listed file no. IZLT.E35113 (6J200, 6J400 and 6J600 fuse holders, cUL file no. 1ZLT8.E35113)
- CSA certified file no. LR21455
- · CE compliant
- RoHS compliant
- Flexible stranded wire compliant 100A, 200A, 400A and 600A models
- See data sheets for drawings

Amps	Catalog # (replace "X" with # of poles)	Poles (X) (E=expander)	Base Materials	Wire Range	
	R6J30AxS <sup>1</sup>			#10-#22 AWG CU	
30	R6J30AxSP <sup>1</sup>	1/2/3/E	Thermoplastic	#10-#14 AWG CU	
	R6J30AxB <sup>1</sup>			#2-#14 AWG CU	
60	R6J60AxB <sup>1</sup>	1/2/3		#2-#12 AWG AL	
100	R6J100AxB	1		2/0-#14 AWG CU	
100	NOTTOOAXD	3		2/0-#12 AWG AL	
200	6J200AxBFBD			250 kcmil #6 AWG CU AL	
400	6J400AxBFBD	1/3	Phenolic	(1) 600-#2 kcmil (1) 350-#6 AWG CU AL	
600	6J600AxBFBD			(2) 500 kcmil #6 AWG CU AL	



See page 115 for available covers See page 116 for DIN Rail Adapter Contact Customer Service for Stud Options Fuse mounting hardware supplied with fuse holder





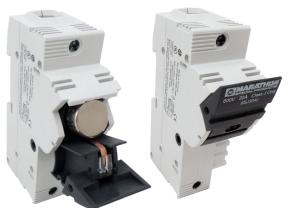




## Class J Enclosed Fuse Holders

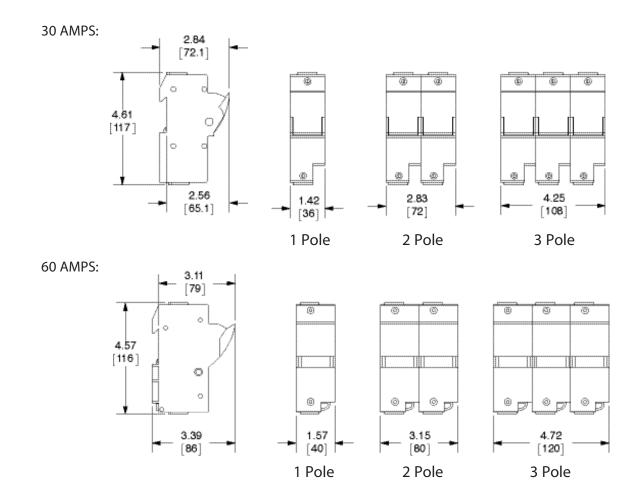
#### Specifications:

- Available in 30 & 60 amps @ 600 volts
- 200,000 amp SC withstand rating
- Touchsafe IEC type design (IP20)
- Blown fuse indicating type available (6SJ30AXI and 6SJ60AXI)
- Red dual LED indicator range of operating voltage 110-600V AC/ DC, use either polarity for DC application
- UL listed file no. IZLT.E35113
- CSA certified file no. LR21455
- CE compliant
- RoHS compliant



6SJ30A1I (shown with and without fuse; not included)

Amps	Catalog # (replace "X" with # of poles)	Poles (X)	Base Materials	Wire Range
30	6SJ30Ax	1/2/2	Thermoplastic	#1-#18 AWG
	6SJ30AxI			(2) #10-#12 AWG
60	6SJ60Ax	1/2/3		#1-#14 AWG
	6SJ60AxI			(2) #6-#14 AWG



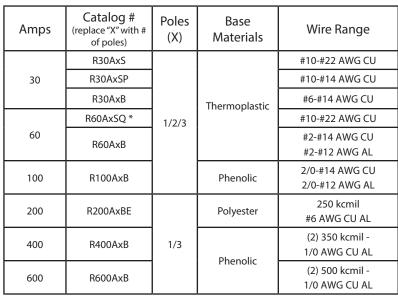


## Class R Fuse Holders

#### Specifications:

- Available in 30, 60, 100, 200, 400 & 600 amps @ 250/600 volts
- Copper box connectors available on 30 and 60 amp (add CU after catalog number)
- 200,000 amp SC withstand rating
- UL listed file no. IZLT.E35113
- CSA certified file no. LR21455
- · CE compliant
- RoHS compliant
- See data sheets for drawings







#### 600 Volts

Amps	Catalog # (replace "X" with # of poles)	Poles (X)	Base Materials	Wire Range	
	6R30AxS	1/2/3		#10-#22 AWG CU	
30	6R30AxSP			#10-#14 AWG CU	
	6R30AxB			#6-#14 AWG CU	
60	6R60AxB		Phenolic	#2-#14 AWG CU #2-#12 AWG AL	
100	6R100AxB			2/0-#14 AWG CU 2/0-#12 AWG AL	
200	6R200AxBE		Polyester	250 kcmil #6 AWG CU AL	
400	6R400AxB	1/3	1/3	Phenolic	(2) 350 kcmil 1/0 AWG CU AL
600	6R600AxB		FIIEHOHC	(2) 500 kcmil 1/0 AWG CU AL	







R200A3BE



6R30A3B



6R200A3BE



### Class H Fuse Holders

#### Specifications:

- Available in 30, 60, 100, 200, 400 & 600 amps @ 250/600 volts
- Copper box connectors available on 30 and 60 amp (add CU after catalog number)
- 10,000 amp SC withstand rating
- UL listed file no. IZLT.E35113
- CSA certified file no. LR21455
- CE compliant
- RoHS compliant
- See data sheets for drawings



Amps	Catalog # (replace "X" with # of poles)	Poles (X)	Base Materials	Wire Range
	RF30AxS <sup>1</sup>			#10-#22 AWG CU
30	RF30AxSP <sup>1</sup>			#10-#14 AWG CU
	RF30AxB <sup>1</sup>		Thermoplastic	#6-#14 AWG CU
	RF60AxSQ <sup>2</sup>	1/2/3	'	#10-#22 AWG CU
60	RF60AxB			#2-#14 AWG CU #2-#12 AWG AL
100	RF100AxB		Phenolic	2/0-#14 AWG CU 2/0-#12 AWG AL
200	F200AxBE		Polyester	250 kcmil #6 AWG CU AL
400	RF400AxB	1/3	Phenolic	(2) 350 kcmil 1/0 AWG CU AL
600	F600AxB		Prienolic	(2) 500 kcmil 1/0 AWG CU AL

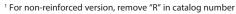


F200A3BE

F30A1SP

### 600 Volts

Amps	Catalog # (replace "X" with # of poles)	Poles (X)	Base Materials	Wire Range			
	R6F30AxS <sup>1</sup>			#10-#22 AWG CU			
30	R6F30AxSP1			#10-#14 AWG CU			
	R6F30AxB <sup>1</sup>			#6-#14 AWG CU			
60	R6F60AxB <sup>1</sup>	1/2/3	1/2/3	1/2/3	1/2/3	Phenolic	#2-#14 AWG CU #2-#12 AWG AL
100	R6F100AxB				2/0-#14 AWG CU 2/0-#12 AWG AL		
200	6F200AxBE		Polyester	250 kcmil #6 AWG CU AL			
400	R6F400AxB	1/3	Phenolic	(2) 350 kcmil 1/0 AWG CU AL			
600	6F600AxB		FITEHOLIC	(2) 500 kcmil 1/0 AWG CU AL			



<sup>&</sup>lt;sup>2</sup> UL recognized File No. IZLT2.E35113

See page 115 for available covers See page 116 for DIN Rail Adapter Contact Customer Service for Stud Options



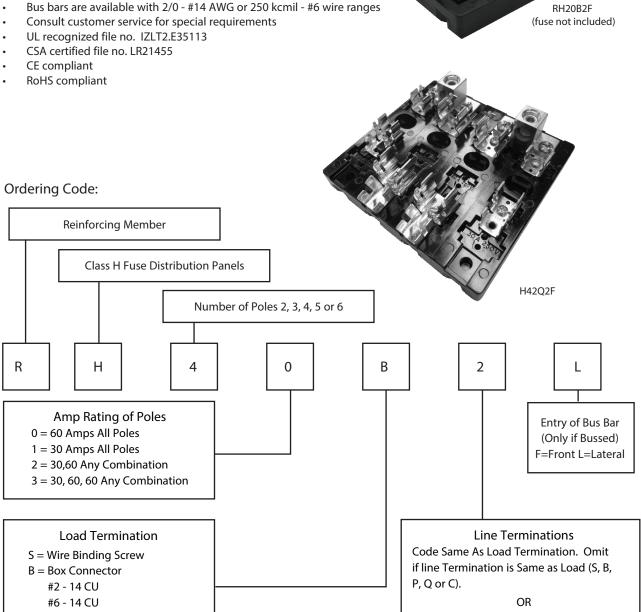
R6F30A3B



### Class H Fuse Panels

#### Specifications:

- 30 and 60 amps @ 250 volt base
- General purpose phenolic, 150°C (UL RTI)
- Clip, copper alloy, tin plated
- Reinforcing member available
- Bus bars are available with 2/0 #14 AWG or 250 kcmil #6 wire ranges



- P = SEMS Pressure Screw
- Q = .250 Male Quick Connect
- C = Combination of the Above (consult Customer Service)

#### **Bussing Arrangements**

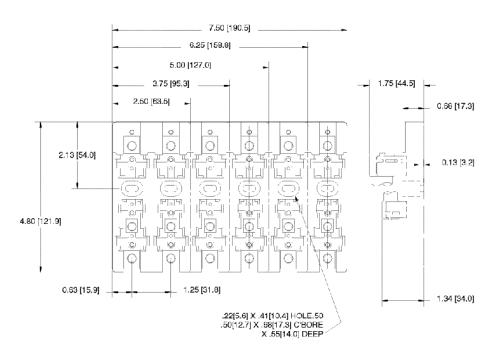
- 1 = Special Bussing (consult Cust.
- Service)
- 2 = Poles Bussed by Pairs
- 3 = Poles Bussed by Threes
- 4 = Poles Bussed by Fours

107





### Class H Fuse Panels



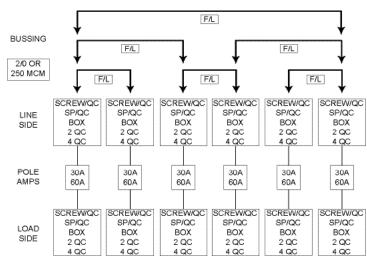
Poles	Dimensions (in) L	(mm)
2	2.50	63.5
3	3.75	95.25
4	5.00	127.0
5	6.25	158.8
6	7.50	190.5

### **Fuse Distribution Panel Options**

Circle/indicate one item per pole and number of poles. The items to be indicated are within the rectangles.

Bussing is only available on line side. If bussing, indicate lug size 2/0 or 250 kcmil (F = Front entry, L = Lateral entry)

Consult Customer Service for other modifications.



REINFORCED/UNREINFORCED



### Class T Fuse Holders

#### Specifications:

- Available in 30, 60, 100, 200, 400 & 600 amps @ 300/600 volts
- Copper box connectors available on 30 and 60 amp (add CU after catalog number)
- 200,000 amp SC withstand rating
- UL listed file no. IZLT.E35113
- CSA certified file no. LR21455
- CE compliant
- RoHS compliant
- Flexible stranded wire compliant 100A, 200A, 400A and 600A models
- See data sheets for drawings

#### 300 Volts

Amps	Catalog # (replace "X" with # of poles)	Poles (X)	Base Materials	Wire Range
30	RT30AxB	2 /2		#2-#14 AWG CU
60	RT60AxB	2/3		#2-#12 AWG AL
100	T100AxB			2/0-#14 AWG CU 2/0-#12 AWG AL
200	T200AxB	1/3	Phenolic	250 kcmil #6 AWG CU AL
400	T400AxB			(2) 250 kcmil #6 AWG CU AL
600	T600AxB	1		(2) 500 kcmil #6 AWG CU AL



#### 600 Volts

OOO VOIL				
Amps	Catalog # (replace "X" with # of poles)	Poles (X)	Base Materials	Wire Range
	R6T30AxS			#10-#22 AWG CU
30	R6T30AxSP	2/3		#10-#14 AWG CU
	R6T30AxB	2/3		#2-#14 AWG CU
60	R6T60AxB			#2-#12 AWG AL
100	6T100AxB	1/2	Phenolic	2/0-#14 AWG CU 2/0-#12 AWG AL
200	6T200AxB	1/3		250 kcmil #6 AWG CU AL
400	6T400AxB	1		(2) 250 kcmil #6 AWG CU AL
600	6T600AxB	1		(2) 500 kcmil #6 AWG CU AL

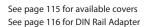


### Class G Fuse Holders

#### Specifications:

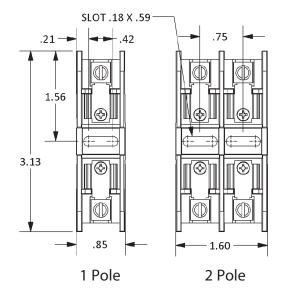
- Available in 15, 20 & 30 amps @ 600/480 volts
- 100,000 amp SC withstand rating
- Clip, copper alloy, tin plated
- Quick connect standard with screw (S) or SEMS pressure (SP)
- Copper box connectors are available on 30 and 60 amp fuse holders (add CU after catalog #)
- For box connectors, internal hex screw option available
- UL listed file no. IZLT.E35113
- CSA certified file no. LR21455
- RoHS compliant

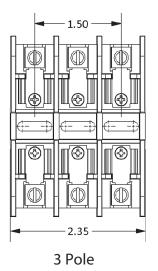
	Catalog #	D.L.	D	
Amps	(Replace "X" with # of poles)	Poles (X)	Base Materials	Wire Range
	RG15AxSQ			#10-#22 AWG CU
15	RG15AxSPQ			#10-#14 AWG CU
(600 VOLT)	RG15AxB			#6-#14 AWG CU
	RG15AxBCU			#6-#14 AWG CU
	RG20AxSQ			#10-#22 AWG CU
20 (600 VOLT)	RG20AxSPQ	1/2/3	Thermoplastic	#10-#14 AWG CU
(000 VOLI)	RG20AxB			#6-#14 AWG CU
	RG30AxSQ			#10-#22 AWG CU
30	RG30AxSPQ			#10-#14 AWG CU
(480 VOLT)	RG30AxB			#6-#14 AWG CU
	RG30AxBCU			#0-#14 AWG CU

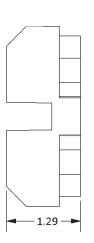














### General Purpose/Semi Conductor Fuse Holders

#### **Box Version - Specifications:**

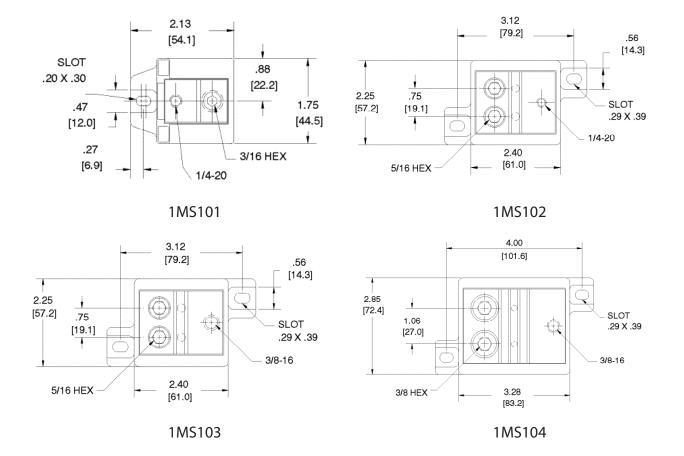
- 200,000 amp SC withstand rating
- Insulator base, general purpose phenolic, 150°C (UL RTI)
- Hex-head bolts and Belleville washers provided unassembled
- · Connector aluminum, tin plated
- Dove-tail interlocking feature on 1MS101
- · Two-piece modular design
- UL recognized UR file no. IZLT2.E35113, cUR file no. IZLT8.E35113
- · CE compliant
- · RoHS compliant



#### 600 Volts

Max	Catalog #	Wire Range	Teste	d At:
Amps	Catalog #	wile halige	l²t	lp
100	1MS101	2/0 - #14	193kA	27.4kA
400	1MS102	(2) 250 kcmil - #6	3480 kA	69.5 kA
400	1MS103	(2) 250 kcmil - #6	3480 kA	69.5 kA
600	1MS104	(2) 500 kcmil - #6	2840kA	50.8 kA

NOTE: Order two blocks per fuse



112



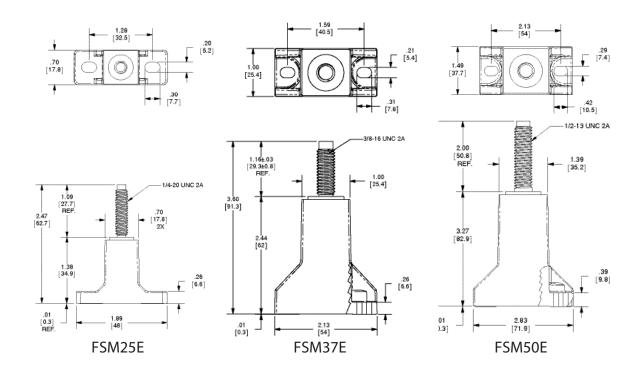
## General Purpose/Semi Conductor Fuse Holders

#### **Stud Version - Specifications:**

- 1000 volt
- Insulator base, high strength thermoplastic
- Stud, nuts and Belleville washers: plated steel
- Maximum insulator base temperature rating 125°C (257°F) UL RTI (impact)
- Hardware provided unassembled
- Flammability rating of insulator UL 94 V-0
- Ideal for applications such as lithium-ion battery packs, inverters, industrial panels and other energy storage devices
- UL recognized UR file no. IZLT2.E35113, cUR file no. IZLT8.E35113
- RoHS compliant



	Catalog #				
	FSM25E	FSM37E	FSM50E		
	1/4"-20 Stud	3/8″-16 Stud	1/2"-13 Stud		
Stud Sizes	Metric sizes (M6, M10, M12) available upon request - contact Customer Service for more information				
Electrical Ratings	400A, Up to 1000V AC/DC	800A, Up to 1000V AC/DC	1200A, Up to 1000V AC/DC		
Application Torque	75 in-lbs	230 in-lbs	300 in-lbs		
SC Withstand Rating	Approved for 200,000A, Tested at 111 kA²s (l²t) and 20.0 kA (lp)	Approved for 200,000A, Tested at 274 kA²s (I²t) and 26.2 kA (Ip)	Approved for 200,000A, Tested at 465 kA²s (l²t) and 30.8 kA (lp)		
Mounting	Mount with #10 fastener, torque to 25-30 in. lbs.	Mount with #10 fastener, torque to 25-30 in. lbs.	Mount with 1/4" fastener, torque to 25-30 in. lbs.		



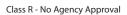
### Fuse Holders w/ Box Distribution Connectors

#### Specifications:

- Available in 30 and 60 amp @ 250 / 600 volts
- Available on Class H, R and J fuse holders
- Connectors, high conductive aluminum, tin plated
- Reinforcing member available, standard on Class R
- UL recognized file no. IZLT2.E35113
- CSA certified file no. LR21455
- RoHS compliant
- See data sheet for drawings

#### Class H and R Fuse Holders

Amps	Volts	Catalog # (Replace "X" with # of poles)	Line Wire Range	Load Wire Range
		F60AxBD		
60	250	R60AxBD	(1) #2-#10 AWG	(1) #2-#10 AWG
60	230	F60AxBD-D	(1) #2-#10 AWG	(1) #6-#14 AWG
		R60AxBD-D		
30		6F30AxBD-D	(1) #6-#14 AWG	(1) #6-#14 AWG
30		6R30AxBD-D	(1) #0-#14 AWG	(2) #10-#18 AWG
	600	6F60AxBD		(1) #2-#10 AWG
60	000	6R60AxBD	(1) #2-#10 AWG	(1) #6-#14 AWG
30		6F60AxBD-D	(1) #2-#10 AWG	(1) #2-#10 AWG
		6R60AxBD-D		(2) #6-#14 AWG



### Class J Fuse Holders

Amps	Volts	Catalog # (Replace "X" with # of poles)	Line Wire Range	Load Wire Range
60	60 600	6J60AxBD	(1) #2-#10 AWG	(1) #2-#10 AWG (1) #6-#14 AWG
60		6J60AxBD-D	(1) #2-#10 AWG	(1) #2-#10 AWG (2) #6-#14 AWG

Class J - No Agency Approval







6J60A3BDD





### STSF Forklift/Semi Conductor Fuse Holder

#### **Stud Version - Specifications:**

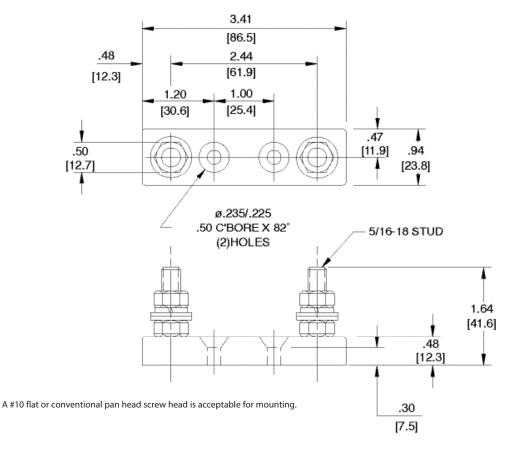
- Base, high strength thermoplastic
- Temperature rating of 170°C
- Studs, stainless steel (nuts and washers provided)
- 130 volt AC/DC, 1 to 400 Amps
- UL recognized file no. IZLT2.E35113
- · RoHS compliant

### Applications:

This holder is used in direct current (DC) applications: forklifts, golf carts, electric vehicles, custom high-end car stereo systems, heavy equipment, marine aircraft, and similar applications.



ST SF





### **Fuse Holder Covers**

#### Specifications:

- Material, thermoplastic
- Thermal rating, 125°C (RTI, per UL 746)
- Flammability, VO (per UL 94)
- UL listed accessories under file no. JDVS2.E181825
- In application, protection is consistent with IEC standard 529, designation IP20 (Finger Safe)\* - except CJ6100-1, CJ6100-2, and CJ6100-3
- · Opening allows view of self-indicating fuses
- · Holes for test probes and re-tightening of wire terminations
- · Covers fit most fuse holder brands
- · RoHS compliant

Fuse Type	Amps	Voltage	Catalog #	For use with Fuse Holder#
1960	30		CHR230	F30A/R30A
	60	250	CHR260	F60A/R60A
11/5	100		CHR2100	RF100A/R100A
H/R	30		CHR630	6F30A/6R30A
	60		CHR660	6F60A/6R60A
	100		CHR6100	R6F100A/6R100A
	30		CJ630	6J30A
	60		CJ660	6J60A
J		600	CJ6100-1C	
	100		CJ6100-2C	R6J100A
			CJ6100-3C	
CC, G	30		CC630	6CC30A, Class J
CD	60		CC660	R6CC60A
MISC	30		CCM630**	6M30A/6CCM30A



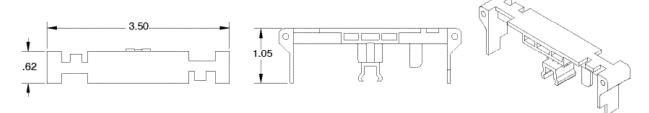


Fuse Holder shown with Covers Attached

#### Cover/Puller (Catalog # CVR-MCC)

Marathon's Cover/Puller was designed for use with the Class CC (30 Amp), Midget and Class G (15 & 20 Amp only) Fuse Holders. Once installed, the Cover/Puller provides an easy and safe way to remove fuses. In application, protection is consistent with IEC Standard 529, designation IP20 (finger safe).





<sup>\*</sup>Applications involving fuse holders other than Marathon may not provide IP20 finger protection

<sup>\*\*</sup>Covers are recognized if used with recognized fuses



### **DIN Rail Adapters**

Catalog #	Std Pack Qty
DIN R 1	10

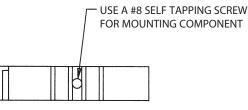
#### DIN R 1:

- Accessory to secure surface mount devices on DIN rail
- Made of acetal resin material
- High mechanical strength and rigidity
- Good resilience and resistance to creep
- · Excellent dimensional stability
- Excellent low temperature toughness
- Wide end-use temperature range
- Will work with 2 and 3 pole Class H (250 volt, 30 amp) and Class R fuse holders (250 volt, 30 amp), and 985, 1100, 1200, 1500, and 1600 series heavy duty terminal blocks
- RoHS compliant

#### Assembly Method:

- Press adapter onto rail, fasten component with #8 self tapping screw (screw not supplied)
- Assembly locks firmly unto DIN rail







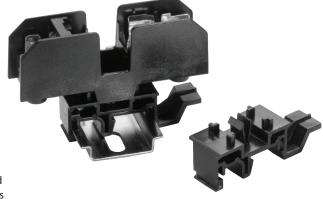
Catalog #	Std Pack Qty
DIN R 2	10

#### DIN R 2:

- For use with Class CC (30 amp), midget, and Class G fuse holders.
- · RoHS compliant

#### Assembly Method:

- DIN R 2 snaps securely to the Marathon fuse holders and to DIN rails without tools, which permits the fuse holders to be mounted directly to standard and low profile 35mm symmetrical and 32mm asymmetrical DIN rails.
- May be removed by lifting the disconnect tab





### **Terms & Conditions**

ALL QUOTATIONS ARE OFFERED AND ALL PURCHASE ORDERS ARE ACCEPTED BY SELLER SUBJECT ONLY TO THESE TERMS AND CONDITIONS.

#### DEFINITIONS:

"Buyer" means the entity to which Seller is selling Products or Services under a Contract.

"Contract" means the agreement between Buyer and Seller governing the sale of Products and/or Services by Seller to Buyer. These Terms and Conditions, the Quotation (if one is issued by Seller), any purchase order acknowledgement (if one is issued by Seller), and Buyer's purchase order (except to the extent that it conflicts with these Terms and Conditions, the Quotation, and/or the order acknowledgement) constitute the Contract.

"Products" means the equipment, parts, materials, supplies, and other goods that Seller has agreed to supply under the Contract. References in these Terms and Conditions to the purchase and sale of Products may mean, where applicable, the licensing of Software loaded on or provided with the Products.

"Quotation" means Seller's statement identifying the Products and Services, together with any quantity, price, delivery schedule, and/ or other terms and conditions (in addition to or different from these Terms and Conditions), offered by Seller for sale to Buyer. A Quotation that incorporates these Terms and Conditions by reference shall be deemed to include these Terms and Conditions by whether or not Seller provides a complete copy of these Terms and Conditions to Buyer with the Quotation, with a purchase order acknowledgement, or with an invoice. Where there is a conflict between these Terms and Conditions and other provisions of the Quotation. The Terms and Conditions and other provisions of the Quotation, the latter shall control.

"Services" means the services that Seller has agreed to provide under the Contract.

"Software" means software loaded on or provided with the Products.

Seller" means the Regal entity -- whether Regal Beloit Corporation ("RBC") or an RBC subsidiary – supplying Products and/or providing Services under the Contract.

- CONTRACT FORMATION: No agreement or understanding, oral or written, purporting to modify these Terms and Conditions shall be binding on Seller unless it is made in writing, specifically stating that it is a modification of these Terms and Conditions and shall be binding on Seller unless it is made in writing, specifically stating that it is a modification of these Terms and Conditions and it is signed by Seller's authorized representative. No course of dealing, usage of trade, or course of performance shall be relevant to explain or supplement any of these Terms and Conditions. If these Terms and Conditions are deemed an offer, Buyer's acceptance of Seller's offer is expressly limited to acceptance of these Terms and Conditions. Fulfilliment of Buyer's order does not constitute acceptance of any of Buyer's terms and conditions and does not modify or amend these Terms and Conditions. Buyer's purchase order for the purchase of Products and/or for the performance of Services shall constitute Buyer's assent to these Terms and Conditions. Any terms and conditions contained in Buyer's purchase order or other form of communication from Buyer that are additional to or different from these Terms and Conditions, shall be deemed rejected by Seller, unless expressly accepted in writing by Seller's authorized representative. Alternatively, if these Terms and Conditions are deemed to be a response to, an acceptance of, or a written confirmation of, Buyer's offer, whether provided in the form of a purchase order or otherwise, Seller's acceptance is expressly conditioned upon Buyer's assent to these Terms and Conditions. Buyer's acceptance of Products tendered to Buyer by Seller shall constitute buyer's express assent to all of the terms and conditions. References in this Section to "these Terms and Conditions. References in this Section to "these Terms and Conditions. Shall be deemed to mean these Terms and Conditions and Seller's Quotation, if Seller has issued a Quotation.
- 3. ACCEPTANCE OF PURCHASE ORDERS: No Buyer purchase order shall be binding on Seller until accepted in writing by Seller, and Seller shall have no liability to Buyer with respect to purchase orders that are not accepted. Shipment against a purchase order shall be deemed to constitute Seller's acceptance thereof, subject to these Terms and Conditions. All purchase orders shall be subject to these Terms and Conditions, whether or not the purchase orders so state. Purchase orders accepted by Seller may not be cancelled or modified by Buyer without the prior written consent of Seller.
- 4. QUOTATIONS: Quotations shall expire and shall be void thirty (30) days from date of the Quotation, unless otherwise specified in the Quotation. The Quotation may be modified or withdrawn by Seller at any time before Seller's receipt of Buyer's conforming accep-

#### PRICES: PRICE CHANGES:

- 5. PRICES; PRICE CHANGES:

  (a) Products. The price of the Products sold pursuant to the Contract shall be as set forth in the Quotation. If price is not specified in the Quotation, price shall be based upon Seller's prices in effect at the time of shipment. Published prices are for Products of Seller's current standard design and constructed of standard materials. Variation from the standard design and/or materials requires special pricing. Seller reserves the right at any time, and without incurring any obligation, to discontinue the manufacture of any model, to withdraw products from sale, to make changes in design, and/or to add improvements to products. Price also shall be based on freight rates in effect at the time of shipment. Where applicable, in the event of an increase in the applicable freight rates before the shipment of Products, such changes will be for the account of Buyer. Price advances, discounts, extras and other terms and conditions are subject to change without notice. Unless otherwise provided in the Quotation, price is based on delivery in accordance with the "Delivery' section below. Prices include Seller's standard packing.
- (b) Services. Services prices are based on normal business hours (8 AM to 5 PM Monday through Friday). Overtime and Saturday hours will be billed at one and one half (1.5) times the normal business hour hourly rate. Sunday hours will be billed at two (2) times the normal business hour hourly rate, holiday hours will be billed at three (3) times the normal business hourly rate, holiday hours will be billed at three (3) times the normal business hourly hourly rate.
- 6. TAXES, DUTIES AND FEES: Seller shall be responsible for taxes measured on Seller's net income based upon performance of, payment for, work under the Contract ("Seller Taxes"). Buyer shall be responsible for all other taxes, duties, fees or other charges of shall dincluding, but not limited to any manufacturer's tax, retailers' occupation tax, use tax, sales tax, excise tax, duty, custom, inspection or testing fee, value added tax, or any other tax, fee or charge of any

nature whatsoever) imposed by any governmental authority against Buyer, Seller or Seller's suppliers and/or contractors, based upon the Contract between Seller and Buyer. In the event Seller is required to pay any such tax, fee or charge, fee or charge, is imposed before or after Seller's delivery of the Products and/or Buyer's payment under the Contract, Buyer shall provide Seller, at the time the order is submitted, with an exemption certificate or other document acceptable to the authority imposing such tax, fee or charge. If Seller's prices include any taxes, duties or fees (other than Seller Taxes), any change in such taxes, duties and/or fees shall be the basis for a price adjustment.

- Terms. Terms of payment are cash in full, without set-off or dis-unt, in U.S. dollars, and by wire transfer, no later than thirty (30) days and date of invoice.
- (b) Payment Default. If Buyer defaults in any payment when due, or in the event that any voluntary or involuntary bankruptcy or insolvency proceedings involving Buyer are initiated by or against Buyer, then the whole Contract price shall immediately become due and payable upon demand, or Seller, at its option and without prejudice to its other lawful remedies, may defer delivery or cancel the Contract. Where delivery is deferred and Seller does not demand immediate payment of the full Contract price, pro-rata payments shall become due as shipments are made.
- (c) Buyer Financial Condition. If, during the period of performance of the Contract, the financial condition of Buyer is determined by Seller not to justify the terms of payment specified, Seller may demand full or partial payment in advance before proceeding with the work, or satisfactory security or guarantees that invoices will be promptly paid when due, or, at its option, without prejudice to other lawful remedies, may defer delivery or cancel the Contract.
- (d) Delay. If delivery is delayed by Buyer, which delay must be consented to by Seller, Seller may store the Products in accordance with subsection 8(e) 'Storage' below and Seller may submit a new estimate of cost for completion based on prevailing conditions. Payments shall become due from the date on which Seller is prepared to deliver the Products and storage shall be the Buyer's risk and expense as provided in subsection 8(g) 'Storage' below. If manufacture is delayed by Buyer for any cause, a partial payment based upon the proportion of the order completed shall become due from the date on which Seller is notified of the delay.
- (e) Late Payment Charge. Buyer shall pay a late payment charge on all amounts not paid in full when due at the rate of one and one half percent (1.5%) per month or at the maximum legally permissible rate, whichever is lower.
- (f) Exceptions. Supplement A to these Terms and Conditions lists Seller business units for which payment terms vary from payment terms set forth in this Section 7.

#### DELIVERY: TITLE TRANSFER: RISK OF LOSS/DAMAGE:

(a) Delivery – U.S. Buyer. For sales in the U.S. that do not involve export from the U.S., Seller shall deliver Products to Buyer EXW Seller's U.S. point of shipment (Incoterms\* 2010). The point of shipment shall be the shipping dock of Seller's factory, warehouse or other facility that Seller designates as its discretion as point of shipment from time to time.

#### Sales Involving Exports from U.S.

- (1) Delivery U.S. Buyer, Subsequent Drop Shipment to Location Outside U.S. For sales, in the U.S. to a U.S. Buyer, which involve drop shipment at Buyer's request and/or on Buyer's behalf, to a location outside the U.S., Seller shall deliver the Products to Buyer EXW Seller's U.S. point of shipment (Incoterms' 2010). The point of shipment shall be the shipping dock of Seller's factory, warehouse or other facility that Seller designates at its discretion as its point of shipment from time to time. Buyer is responsible for all transportation charges incurred after delivery of the Products to the carrier or Buyer at the point of shipment and shall relimbures Seller for any transit insurance or freight pre-paid for the Products by Seller. Buyer shall bear the risk of loss and/or damage in transportation. Buyer is responsible for filing any export documents required for export from the U.S.
- required for export from the U.S.

  (2) Delivery Non-U.S. Buyer, Solier shall deliver Products to Buyer's freight forwarder EXW Seller's U.S. point of shipment (Incoterms 2010). The point of shipment shall be the shipping dock of Seller's factory, warehouse or other facility that Seller designates at its discretion as its point of shipment from time to time. In a "Routed Export Transaction," as defined in the U.S. Census regulations, 15 CFR Section 30.3, where Buyer is a non-U.S. entity, Buyer shall authorize Buyer's designated freight forwarder or Seller to facilitate the export of the Products from the U.S. and to prepare and file export documentation with respect to such export transaction (hereafter, to "Facilitate the Export"). If Buyer authorizes Its designated freight forwarder to Facilitate the Export, Buyer's freight forwarder shall provide Seller with a copy of the final export documentation and proof of filing, Il Buyer authorizes Seller to Facilitate the Export, Buyer shall acuse Buyer's freight forwarder to provide Seller the Information needed by Seller to Facilitate the Export. Buyer shall give timely notice to Seller identifying whom it has designated to Facilitate the Export.
- (c) Delivery Dates. Delivery dates are approximate, are not guaranteed and are based upon prompt receipt by Seller from Buyer of all necessary shipping and other information. Seller may deliver in advance of the delivery schedule. Seller reserves the right to make delivery in installments, with all installments to be separately invoiced and paid for by Buyer when due per invoice, without regard to subsequent deliveries. Delivery of the Products to a commercial carrier at the shipping point shall constitute delivery to Buyer.
- (d) Title Transfer. Title to Products shall pass to Buyer upon the earlier of delivery of the Products to the carrier or Buyer at the point of shipment in accordance with subsection (a) above, except that, for Routed Export Transactions, title shall transfer to Buyer upon delivery to Buyer's designated freight forwarder. Subject to applicable law, Seller, upon notice to Buyer, may retain title to the Products until such time as Seller receives payment in full from Buyer. Title to Software shall not pass to Buyer and is subject to the applicable license.
- (e) Risk of Loss/Damage. Risk of loss and/or damage shall pass to Buyer upon delivery in accordance with subsection (a) above, except that, for Routed Export Transactions, risk of loss and/or damage shall pass upon delivery of the Products to Buyer's designated freight for-warder.
- (f) Delivery by Seller's Carrier. Where the parties agree that delivery shall be made at a location other than Seller's point of shipment, where Seller will deliver using its carrier or Seller's privately owned or leased

trucks, unloading at the agreed location shall constitute delivery to Buyer. Freight and handling charges by Seller may not reflect actual freight charges prepaid to the carrier by Seller due to incentive discounts earned by Seller based upon Seller's aggregate volume of freight tendered to a carrier or when a carrier must be used which charges a rate which is different than the rate upon which Seller's freight and handling charges were based. When shipments are delivered in Seller's privately owned or leased trucks, Buyer will be charged an amount approximating the prevailing common carrier rate.

(g) Storage. In the event that Buyer is unable to accept delivery of the Products at time of shipment, Seller shall invoice Buyer for the full purchase price as if shipment had been made and: (i) if Seller is able to store such Products in its own facilities, Buyer will pay Seller the reasonable handling and storage charges for the period of such storage, or (ii) if Seller is unable to store such goods at its own facility, Seller reserves the right to arrange handling and storage in suitable bonded warehouse for Buyer at Buyer's expense. In cases where handling and storage become necessary, it shall be Buyer's responsibility to notify Seller when shipment is to be made. Seller will make necessary arrangements for shipment at Buyer's expense.

#### EXCUSABLE DELAYS; FORCE MAJEURE:

- 9. EXCUSABLE DELAYS; FORCE MAJEURE:
  (a) Excuse of Performance. Seller shall not be liable for any ordinary, incidental, or consequential loss or damage as a result of Seller's delay in or failure of delivery, or installation of Products or performance of Services due to (i) any cause beyond Seller's reasonable control, (ii) and act of God, act of Buyer, embargo or other government act, authority, regulation or request, fire, theft, accident, stitke, slowdown or other labor disturbance, war, armed conflict, act or threat of terrorism, not, epidemic, delay in transportation, or (iii) inability to obtain necessary labor, materials, components, or facilities. Should any of the aforementioned events occur, Seller, at its option, may cancel Buyer's order with respect to any undelivered Products or incomplete Services or extend the delivery date for a period equal to the time lost because of delay, Notice of such election shall be given promptly to Buyer. In the event Seller elects to so cancel the Contract, Seller shall be released of and from all liability for failure to deliver the Products or to perform the Services, including, but not limited to, any and all claims on behalf of Buyer for lost profits, or any other claim of any nature which Buyer might have. It shipping or progress of the work is delayed or interrupted by Buyer, directly or indirectly, Buyer shall pay Seller for all additional charges resulting the reformance of the work is delayed or interrupted by Buyer, directly or indirectly, Buyer shall pay Seller for all additional charges resulting the reformance.
- (b) Allocation. If Seller determines that its ability to meet the demand for products, including the Products, or to obtain labor, materials, components or facilities is hindered, limited or made impracticable due to causes set forth in subsection (a) above, Seller may allocate its available supply of products, including the Products, among itself and its purchasers on such basis as Seller determines to be equitable without liability for any failure of performance which may result therefrom.
- Scope and Period.
- (1) Products. Seller warrants that the Products shall be delivered free from defects in material, workmanship and title and shall conform to Seller's specification agreed upon in a written and signed agreement by Buyer and Seller, if applicable, for the Products. This warranty shall expire twelve (12) months from first use of the Product or eighteen (18) months from date of manufacture of the Product, whichever occurs first.
- (2) Repaired and/or Replaced Products and/or Parts of Products. Seller warrants that the repaired or replaced Products or parts of Products shall be delivered free from defects in material, workmanship and title. In the case of repaired or replaced Products or parts of Products comprising warranty remedies for Products, this warranty shall expire upon expiration of the warranty period applicable to the Products originally supplied by Seller. In the case of other repaired or replaced Products or parts of Products, this warranty shall expire twelve (12) months from the date of repair or manufacture of the Products or parts of the Products.
- (3) Services. Seller warrants that the Services shall be performed in a competent and diligent manner in accordance with any mutually agreed specification. This warranty shall expire ninety (90) days from the date of completion of such Services.
- (4) Software. Seller warrants that the Software shall execute, at time of delivery, in accordance with the specification agreed upon in a written and signed agreement by Buyer (as licensee) and Seller (as licensor) when properly installed in the Products. The warranty shall expire six (6) months from date of manufacture of the first Product in which the Software is loaded.
- (5) Applicability. This warranty shall apply to any Products and/or Software bought, acquired, and/or used by an entity that, or person who, acquires the Products and/or Software from Buyer (a "Transferee"), except that any claim made against Seller pursuant to this warranty shall be made by Buyer only. Seller shall not be bound by this Section 10 to satisfy a claim under this Section made against Seller by a Transferee, whether such Transferee is a direct or indirect Transferee of Buyer, Buyer shall provide any Transferee of a Product or Software written conspicuous notice of Sections 10 and 11 hereof.
- (6) Exceptions. Supplement B to these Terms and Conditions lists Seller Products, parts, Services and Software for which Seller's warranties vary from the warranties set forth in this subsection 10(a).

- (b) Remedies.

  (1) Products. If, prior to expiration of the warranty period set forth in subsection 10(a)(1), above, any Products shall be proved to Seller's satisfaction to be defective or nonconforming with the warranty set forth therein, Seller will repair or replace such defective Products or components thereof, FCA Seller's factory, warehouse or other facility that Seller designates at its discretion as point of shipment from time to time (Incoterms' 2010), or will refund or provide Buyer with a credit in the amount of the purchase price paid therefor by Buyer, at Seller's sole option. Buyer's exclusive remedy and Seller's sole obligation under this warranty shall be limited to such repair or replacement, FCA factory, warehouse or other facility that Seller designates at its discretion as point of shipment from time to time (Incoterms' 2010), or refund or credit by Seller, and shall be conditioned upon Seller's receiving written notice of any defect and/or nonconformance within a reasonable period of time, but in no event more than thirty (30) days, after it was discovered or by reasonable care should have been discovered. All claims not made in writing and received by Seller within such thirty (30) day period shall be deemed wawed. In no event shall Seller's liability for such defective or nonconforming Products exceed the purchase price paid by Buyer for selleged defective Products or part, freight prepaid, for seller's insection, and no other Products shall be returned to any Seller office factory, warehouse, authorized service center or other facility, without Seller's written consent.
- Repaired and/or Replacement Products and/or Parts of Products.



### **Terms & Conditions**

If prior to the expiration of the applicable warranty period set forth in subsection 10(a)(2) above, any replacement Products and/or parts of Products shall be proved to Seller's satisfaction to be defective or nonconforming with the warranty set forth therein, the remedy set forth in subsection 10(b)(1) above shall apply to such replacement Products and/or parts of Products.

(3) Services. If, prior to expiration of the warranty period set forth in subsection 10(a)(3), above, any Services shall be proved to Seller's satisfaction to be nonconforming with the warranty set forth therein, Seller will re-perform such nonconforming Services. If the Services cannot be re-performed, Seller, at its option, shall refund or credit monies paid by Buyer for such nonconforming Services.

(4) Software. If, prior to expiration of the warranty period set forth in subsection 10(a)(4) above, (i) Buyer provides, in writing, a complete description of the claimed nonconformance in the Software, and (ii) the Software is proven to Seller's satisfaction to be so nonconforming with the warranty set forth therein, Seller will correct the nonconformance by, at its option: (i) modifying or making available to Buyer instructions for modifying the program causing such nonconformance, or (ii) making available a corrected or replacement program FCA Seller's factory, warehouse or other facility that Seller designates at its discretion as point of shipment from time to time (Incoterms\* 2010).

Exclusions - The warranties set forth in this Section 10 do not

(1) shipping expenses to and from Seller's office, factory, warehouse, authorized service center or other destination designated by Seller for repair or replacement of defective Products or any tax, duty, custom, inspection or testing fee, or any other charge of any nature related

(2) costs of removing defective Products from, and/or disassembling, equipment in which Products are assembled or reinstalling Products and/or reassembling such equipment, or testing repaired or replaced Products and/or the equipment;

#### field service travel and living costs and expenses;

(4) Products subjected to abuse, neglect, negligence, misuse, misapplication, accident, damages by circumstances beyond Seller's control, improper installation (if by anyone other than Seller), improper operation (including, but not limited to, operation in excess of rated capacity or otherwise not in accordance with installation, maintenance, or operating instructions or requirements) improper maintenance, improper storage, and/or any other than normal use or service;

Products maintained, serviced, repaired or altered by anyone other than Seller or Seller's authorized service agencies;

(6) Products and/or parts not manufactured by Seller; for Products furnished by Seller, but manufactured by others, Seller will assign to Buyer the written warranty, if any, of the manufacturer, if assignment is reasonably practicable; however, Seller does not adopt or guarantee or represent that the manufacturer will comply with any of the terms of the warranty of such manufacturer; but, in no event shall Seller's obligations be greater than those provided under Seller's warranty set forth in this Sertion 10: and/or Section 10; and/or

(7) failures of the Software to be interruption-free or error-free or to meet Buyer's or any other party's requirements, and, problems caused by use of the Software in conjunction with third-party software, hard-ware, or products.

(d) DISCLAIMER: THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER EXPRESS AND IMPLIED WARRANTIES, ARISING BY OPERATION OF LAW OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHETHER OR NOT THE PURPOSE OR USE HAS BEEN DISCLOSED TO SELLER IN SPECIFICATIONS, DRAWINGS, OR OTHERWISE AND WHETHER OR NOT SELLER'S PRODUCTS ARE SPECIFICALLY DESIGNED AND/OR MANUFACTURED BY SELLER FOR BUYER'S USE OR PURPOSE. ON OMPLOYEE, REPRESENTATIVE, OR AGENT OF SELLER OR MODIFY ANY PROVISION OF THIS SECTION 10 OR TO ALTER OR MODIFY ANY PROVISION OF THIS SECTION 10 OR TO AMER ANY GUARANTEE, WARRANTY, OR REPRESENTATION, EXPRESS OR IMPLIED, ORALLY OR IN WHITING, WHICH IS CONTRARY TO THE POREGOING. Except where Buyer and Seller agree in a written and signed agreement upon the specifications applicable to the Products, and/or-services, whether in writing or made orally by Seller or Seller's agents, specifications, samples, models, bulletins, drawings, diagrams, engineering sheets or similar materials used in connection with Buyer's order are for the sole purpose of identifying the Products and shall not be construed as an express or implied warranty. Any suggestions by Seller or Seller's agents, regarding use, application or suitability of the Products shall not be construed as an express or implied warranty unless confirmed to be such in writing by Seller's authorized officer. DISCLAIMER: THE FOREGOING WARRANTIES ARE IN LIEU OF ALL

#### 11. LIMITATIONS OF REMEDY AND LIABILITY:

(a) Breach of Warranty Claims. Buyer's only remedy for breach of any warranty under the Contract, other than the warranty provided under Section 13 "Intellectual Property Indemnity," shall be the applicable remedy set for

(b) Other Claims. Seller's liability for any claim other than a breach of warranty claim under Section 10 "Limited Warranty," whether in contract, negligence, tort, strict liability, indemnity or otherwise for any loss or damage arising out of, connected with, or resulting from the Contract or the performance or breach thereof, or from the design, manufacture, sale, delivery, resale, repair, replacement, installation, technical direction of installation, inspection, operation or use of any Products covered by or furnished under the Contract or from Services rendered under the Contract, shall in no case (except as provided in Section 13 "Intellectual Property Indemnity") exceed five percent (5%) of the purchase price allocable to the Products or part thereof or Services giving rise to the claim.

(c) Consequential Damage Disclaimer. SELLER SHALL NOT BE LIABLE FOR AND DISCLAIMS ALL CONSEQUENTIAL, INCIDENTAL, CONTINGENT, SPECIAL OR PUNITIVE DAMAGES WHATSOEVER. Seller shall not be liable for lost profits or revenues, loss of use of the Products, Software or any related equipment or systems, cost of capital, cost of substitute products, cost of facilities or services, business interruption, downtine, shutdown, or slowdown costs, any other types of economic loss, penalties, special or punitive damages, and claims of Buyer's customers for any such damages.

(d) Expiration of Claims. All claims against Seller arising out of or related to the Contract or the performance or breach thereof shall expire unless made and presented to Seller in writing by Buyer before expiration of the applicable warranty period.

(e) Precedence. The limitations of this Section shall apply regardless of whether a claim is based in contract, tort (including negligence), war-ranty, strict liability, intellectual property, or otherwise, and shall take precedence over any conflicting terms and conditions, except where the limitations of liability of such conflicting terms limit Seller's liability

(a) Third party claims. Each of Buyer and Seller (each an "Indemnified Party" and an "Indemnifying Party") shall indemnify the other party from and against claims brought by a third party, for bodily injury or damage to the third party's stangible property, to the extent such injury and/or damage is caused by the negligence of the Indemnifying Party, provided that the Indemnified Party gives the Indemnifying Party, provided that the Indemnified Party, at its option, may defend or settle such claim and the Indemnified Party, at its option, may defend or settle such claim and the Indemnified Party, at its option, may defend or settle such claim and the Indemnified Party does not take any adverse posi-ition in connection with such claim. In the event that the injury or damage is caused by joint or concurrent negligence of Buyer and Seller, the loss or expense shall be borne by each party in proportion to its degree of negligence. For purposes of Seller's indemnity obligations hereunder, Products shall not be considered third party property and the facility in which a Product or Software is used and/or the Services are performed shall not be considered third party property.

(b) Indemnity by Buyer for Third Party Warranty Claims. If Buyer supplies Products or Services to a third party, uses Products or Services at a facility owned by a third party, and/or transfers Products and/or Software to a third party, buyer shall indemnify and defend Seller from and against any and all claims by, and liability to, any such third party in excess of the limitations set forth in Sections 10 "Limitatid Warranty" and 11 "Limitations of Remedy and Liabilities." For purposes of this subsection (b). "Seller" means Seller, its affiliates, suppliers, contractors, licensors and their employees.

licensors and their employees.

13. INTELLECTUAL PROPERTY INDEMNITY: Seller war-rants that, to the best of its knowledge, Products, Services and/or Software furnished hereunder, and any part thereof, (each a "Delivered Item") shall be delivered free of any rightful claim of any third party not affiliated with Buyer for infringement of any U.S. patent, any trademark registered in the U.S. Capyright Office. Seller will, at its own expense, defend or settle any suits that may be instituted against Buyer for alleged infringement by the Delivered Item of any U.S. patent, any trademark registered in the U.S. Copyright Office populated that (a) such alleged infringement by the Delivered Item of any U.S. patent, any trademark registered in the U.S. Copyright Office provided that: (a) such alleged infringement consists of the use of the Delivered Item for (i) any of the purposes for which Buyer informed Seller such Delivered Items would be used, (or (ii) if Buyer did not so inform Seller, any of the purposes for which Buyer reasonably believed such Delivered Items would be used, (b) Buyer shall have made all payments for such Delivered Items then due hereunder; (c) Buyer shall give Seller immediately upon receipt of all processes and papers served upon Buyer; (d) Buyer does not take any position and everser through Seller's counsel, either in the name of Buyer or in the name of Seller, to defend such suit(s) and give all needed information, assistance and authority to enable Seller to do so.

In case of a final award of damages in any such suit. Seller will bay such

and authority to enable Seller to 0o so.

In case of a final award of damages in any such suit, Seller will pay such award but will not be responsible for any compromise or settlement made without its written consent. In case the Delivered Item itself is in such suit held to infringe any valid patent issued in the United States and/or a trademark and/or copyright registered in the United States, and its use is enjoined, or in the event of a settlement or compromise approved by Seller which shall preclude future use of the Delivered Item, Seller shall, at its own expense and at its sole option, either (a) procure rights to continue using such Delivered Item; (b) modify the Delivered Item to render it non-infringing; (c) replace the Delivered Item with a non-infringing Product and/or Software; or (d) refund the purchase price paid by Buyer for the Delivered Item after return of the Delivered Item to Seller (less reasonable depreciation for any period of use). Notwithstanding the foregoing, Seller shall not be held responsible for claims of infringement of any patents covering the use of the Delivered Item in combination with other goods or materials not furnished by Seller.

The foregoing states the entire liability of Seller for intellectual property infringement, and IN NO EVENT SHALL SELLER BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES ATTRIBUTABLE TO AN INTELLECTUAL PROPERTY INFRINGEMENT. Buyer, at its own expense, shall defend Seller against, and/or settle, (a) any patent, trademark, copyright or other intellectual property infringement claim pertaining to a Delivered Item furnished by Seller to Buyer manufactured in accordance with designs, drawings or other descriptions proposed or furnished by Buyer; and (b) any claim against Seller of contributory infringement resulting from the use or resale by Buyer of a Delivered Item sold hereunder. Buyer shall indemnify Seller for any award against Seller or settlement by Seller regarding any such claims and attorneys' fees and defense costs incurred in defense of such claims.

#### 14. SOFTWARE LICENSE:

(a) License Grant: Seller grants Buyer a nonexclusive, royalty-free, perpetual, limited license to use the Software in the U.S. and solely in conjunction with (a) the operation of the Products purchased and sold under the Contract and/or other product meeting Seller's specifications; and (b) any other purpose agreed upon in a written and signed agree-ment between Buyer and Seller.

(b) Scope of Licanse: Upon Seller's prior written approval, Buyer may make a reasonable number of copies of Software as necessary for backup, configured in the product of the product of

(c) Use Restrictions: Buyer shall not (a) copy, display, transfer, adapt, modify, or distribute in any form the Software except as set forth in the Contract or in Seller documentation provided by Seller to Buyer with the Software; (b) reverse engineer, disassemble, decompile, or otherwise translate the Software's object code, unless expressly permitted by applicable law without the possibility of contractual waiver; or (c) sublicense or lease the Software or any copy thereof except with the transfer of the Products on which the Software is loaded. Except as provided under the terms of Seller's standard escrow agreement between Seller and Buyer, if applicable, Buyer shall not to make available to any party,

without prior written consent from Seller or its authorized agent, source code for the Software. Buyer shall not, directly or indirectly, export or re-export, of knowingly permit the export or re-export of, the Products, or any technical information about the Products, to any country for which the United States Export Administration Act, any regulation thereunder, or any similar United States law or regulation, requires an export license or other United States Government approval, unless Buyer obtains the appropriate export license and obtains written approval from Seller.

(d) Maintenance and Support: Seller may offer to Buyer the option to purchase from Seller annual Software maintenance and support services under the terms and conditions of Seller's then-standard maintenance and support agreement. Buyer may renew this maintenance term at Seller's then-current maintenance rates. In the event Buyer purchases additional Software licenses, maintenance fees for such licenses shall be prorated to be coterminous with Buyer's existing maintenance period. In no event shall Seller be responsible for providing maintenance services for a period during which maintenance coverage is lapsed.

SECURITY AGREEMENT AND FINANCING STATEMENTS: As security 15. SECURITY AGREMENT AND FINANCING STATEMENTS: As security for payment of the purchase price under the Contract, Buyer hereby irrevocably grants Seller a security interest in the Products purchased by Buyer, together with all accessories, attachments and replacement parts and all substitutions, replacements and proceeds thereof to secure payment of the purchase price and of all monies which may be due under the Contract. Buyer hereby authorizes Seller to file all financing statements, any amendments and continuations thereof, or any other documents necessary or reasonably required, for the perfection and protection of a security interest under applicable law, and to deliver notice to prior holders of security interest. interests, of Seller's security interest in the Products to protect its interest.

INSURANCE: Until payment in full of the purchase price, Buyer shall maintain insurance covering all Products sold by Seller to Buyer in such amounts and against such risks as is customary by companies engaged in the same or similar business and similarly located, and shall, upon Seller's request, furnish evidence of such insurance satisfactory to Seller.

17. DRAWINGS: OTHER DESIGN DATA: All specifications, drawings, designs, data, information, ideas, methods, product samples, tools, gages, dies, fixtures, patterns and/or inventions made, conceived, developed or acquired by Seller in connection with procuring and/or executing the Contract will vest in and inure to Seller's sole benefit notwithstanding any charges therefor which may have been or may be imposed by Seller on Buyer. Buyer shall not give, loan, exhibit, sell or transfer to any person who is not a Buyer employee and authorized to receive such information, or to any organization or entity, any drawing, photograph, specification or product sample furnished by Seller or reproduction thereof which may enable such person, organization or entity to furnish similar products or parts therefor. DRAWINGS: OTHER DESIGN DATA: All specifications, drawings

18. RETURN OF PRODUCTS: No Product or part shall be returned to Seller without written authorization and shipping instructions first having been obtained from Seller.

19 ASSIGNMENT AND SUBCONTRACTING: None of Buyer's rights under the Contract shall be assigned by Buyer to any other person, whether by operation of law or otherwise, without Seller's prior written approval Seller may, without the necessity of obtaining Buyer's prior written consent, assign the Contract or subcontract the production of all or any portion of the Products and/or performance of the Services.

CANCELLATION: No purchase order submitted to Seller may be can-20. CANCELLATION: No purchase order submitted to seller may be cancelled by Buyer without the prior written consent of Seller, which consent will at all times be conditioned on Buyer's agreement to pay Seller's cancellation charge. For a finished Product that, in Seller's judgment, is readily resalable to others, the cancellation charge shall be 15% of the invoice price of the Product. For all other cancellations, the cancellation charge shall amount to all cost and expenses incurred by Seller and arising out of or in connection with Buyer's purchase order plus reasonable profit. In no event shall the cancellation charge be less than 10% of the invoice price of the Product or more than the invoice price.

THE PRODUCTS AND SERVICES FOR ANY AND ALL SSUCH LIST OF SELLER'S PROJUCTS. AND SERVICES SOLD BY SELLER ARE NOT INTENDED FOR USE IN CONNECTION WITH ANY NUCLEAR FACILITY OF ACTIVITY. WITH ANY NUCLEAR FACILITY OF ACTIVITY. WITH ANY SELLER FACILITY OF ACTIVITY. WITH ANY SELLER FACILITY OF ACTIVITY. WITH ANY SELLER FACILITY OF ACTIVITY OF A SERVICES FOR SERVICES FOR SERVIPE FOR SERVIPE SELLER SHALL NOT USE ON FORMATION OF A SERVICES FOR SUCH HIGH RISK APPLICATIONS. (COLLECTIVELY, "HIGH RISK APPLICATIONS"). SELLER SHALL NOT USE ON SERVICES FOR SUCH HIGH RISK APPLICATIONS WITHOUT SELLER'S PRIOR WRITTEN CONSENT. SEL OF SUCH HIGH RISK APPLICATIONS WITHOUT SELLER'S PRIOR WRITTEN CONSENT. SELER DISCLAMAS LILLIABILITY FOR ANY DAMAGE, INJURY OR CONTAMINATION, AND BUYERS, SUCCESSORS, ASSIGNS AND CUSTOMERS HARMLESS FROM AND AGAINST ANY AND ALL SSUCH LIBBILITY. SELLER'S CONSENT, I FANY, WILL SSUCH LIBBILITY. SELLER'S CONSENT, I FANY, WILL SUCH LIBBILITY. SELLER'S CONSENT, I FANY, WILL SUCH LIBBILITY. SELLER'S CONSENT, I FANY, WILL SUCH LIBBILITY. SELLER'S CONSENT, I FANY, WILL SECONDATIONAL TERMS AND CONDITIONS ACCEPTABLE TO SELLER.

GOVERNING LAW; VENUE: These Terms and Conditions and the 22. GOVERNING LAW, VENUE: These Terms and Conditions and the Contract shall be governed by and construed in accordance with the laws of the State of Wisconsin. Seller and Buyer irrevocably submit to the exclusive jurisdiction of the state courts located in Rock County, State of Wisconsin and the federal courts located in the State of Wisconsin, and Seller and Buyer waive any objection to venue or forum non conveniens, for the resolution of any dispute relating to these Terms and Conditions or the Contract. The rights and obligations of Seller and Buyer shall not be governed by the provisions of the United Nations Convention on Contracts for the Internal Sale of Goods.

23. EXPORT/IMPORT: Buyer shall comply, in the receipt and use of the Products and the Software, with all applicable import and export control laws, regulations, orders and requirements of the jurisdictions in which the Seller and Buyer are established or from which Products and Software are provided. Buyer shall not transfer, release, import, or export Products and/ or or Software in violation of such applicable laws, regulations or other legal requirements. Buyer shall provide a completed end-user certification in a form satisfactory to Seller upon Seller's request.

24. ATTORNEYS' FEES: Buyer agrees to pay all of Seller's costs and expenses of collection and related litigation, including but not limited to attorneys' fees and costs.

25. SALVATORY CLAUSE: The invalidity, in whole or in part, of any of the provisions of these Terms and Conditions, shall not affect the enforce-ability of any of the other provisions thereof.

26. APPLICABILITY: These Terms and Conditions as stated herein are applicable as of the date of this printing and until such time as changed by Seller.

Revised, April 2014



### IMPORTANT INFORMATION PLEASE READ CAREFULLY

The following DANGER, WARNING and CAUTION information is supplied to you for your protection and to provide you with many years of trouble free and safe operation of your Marathon Special Products components.



• Devices sold by Marathon Special Products provide for interconnection of electrical circuits and such are, or can be, points of live electrical contact. It is the responsibility of the Buyer or user to ensure through the use of enclosures, insulation, engineering controls, or other means in the application, that the wiring device is protected from intentional or accidental contact in an energized condition. Failure to do so can create the potential for electrical shock and associated serious injury.



- Only qualified personnel should install and troubleshoot electrical products due to the potential for serious injury related to electrical shock. Make certain that the power supply is disconnected and/or locked out before attempting to install, remove or service components.
- Connection tightness is critical to electrical performance. Buyer, user, or installer must always ensure that the proper screw torque is applied and maintained.



- Buyer or user must ensure that proper clearances are maintained between energized electrical components and all other devices including but not limited to the enclosure and mounting mechanism.
- Install and ground per local and national code.
- Buyer shall be solely responsible for determining the adequacy of the product for any and all uses to which Buyer shall apply the product. Buyer must ensure that the application of the device conforms to all standards, codes, policies or practices that govern or apply to their equipment or application. Marathon Special Products uses design parameters, materials, and construction methods intended to meet the standards noted in the engineering catalog, with specific suitability of use and restrictions as noted in the appropriate agency files. The application by Buyer shall not be subject to any implied warranty of fitness for a particular purpose.
- Products in this catalog are tested and listed with various standards agencies. They will meet or exceed all performance guidelines as tested and qualified. Buyer or user must check that applications do not exceed rated capacities of voltage and amperage and that appropriate wiring practices are followed.
- Products are intended for use in an "as sold" condition. Modification of components can affect performance and ratings and subsequently the safety of the component system. Buyer or user assumes liability for component modification.
- Electrical products in this catalog are designed for use in appropriate enclosures. Buyer or user is responsible to ensure that appropriate environmental control is designed into the application.

In the event of the resale of any goods, in whatever form, Resellers/Buyers will include the following language in a conspicuous place and in a conspicuous manner in a written agreement covering such sale:

The manufacturer makes no warranties or representations, express or implied, by operation of law or otherwise, as to the merchantability or fitness for a particular purpose of the goods sold hereunder. Buyer acknowledges that it alone has determined the goods purchased hereunder will suitably meet the requirements of their intended use. In no event will the manufacturer be liable for consequential, incidental or other damages. Even if the repair or replacement remedy shall be deemed to have failed of its essential purpose under section 2-719 of the Uniform Commercial Code, the manufacturer shall have no liability to Buyer for consequential damages.

Resellers/Buyers agree to also include this entire document including the dangers, warnings and cautions listed above in a conspicuous place and in a conspicuous manner in writing to instruct users on the safe usage of the product.

This information should be read together with all other printed information supplied by Marathon Special Products.

For more information contact: Marathon Special Products, Subsidiary of Regal-Beloit Corporation, 427 Van Camp Road, Bowling Green, OH. 43402, Phone: 419-352-8441, Fax: 419-352-0875, Website: www.marathonsp.com



## **INDEX**

Catalog #	Page #	Catalog #	Page #	Catalog #	Page #	Catalog #	Page #
0987 RZ TC 02	34	133X324	13	142X121	12	1500 Series	37
0987 RZ TC 03	34	133X360	14	142X122	18	15TB-F Series	87
0987 RZ TC 04	34	133X552	13	142X123	20	15xx DJ	37
0987 RZ TC 05	34	133X554	13	142X552	12	15xx DJSV	37
0987 RZ TC 06	34	133X555	14	142X553	20	15xx H	37
0987 RZ TC 07	34	133X558	18	142X570	12	15xx MCJ	37
0987 RZ TC 08	34	133X559	18	142X572	12	15xx SC	37
0987 RZ TC 09	34	133X563	18	142X574	18	15xx ST	37
0987 RZ TC 10	34	133X564	18	142X970	12	15xx STD	37
0987 RZ TC 11	34	133X565	15	143X123	12	1600 Series	38
0987 RZ TC 12	34	133X575	14	143X124	12	1690 Series	62
100 Series	47	133X585	14	143X126	13	16TB-F Series	87
10TB-F Series	86	133X587	14	143X306	13	16xx DJ	38
11TB-F Series	86	133X588	14	143X552	13	16xx DJSV	38
1100 Series	33	133X595	14	143X553	13	16xx H	38
1103P	33	133X596	15	143X554	13	16xx MCJ	38
1102	33	133X597	15	143X555	13	16xx SC	38
1104	33	133X598	15	143X559	18	16xx ST	38
1106	33	133X611	19	143X561	18	16xx STD	38
1107	33	133X953	14	143X563	18	1700 Series	39
1108	33	133X955	14	143X587	14	17TB-F Series	87
1112	33	135X601	15	143X590	18	17xx SC	39
1200 Series	33	135X605	16	143X953	14	17xx STD	39
1202	33	135X701	15	143X955	14	1MS101	111
1204	33	135X702	16	144X122	18	1MS102	111
1206	33	135X703	16	144X401	13	1MS103	111
1331348	15	135X704	16	144X551	14	1MS104	111
1453401	16	135X705	16	144X553	18	200 Series	48
132X122	18	135X706	16	144X557	14	2590 GP Series	64
132X422	18	135X707	16	144X560	13	25TB-F Series	87
132X474	18	135X708	16	144X569	19	2690 GP Series	65
132X570	12	140X303	13	144x575	19	26TB-F Series	87
132X572	12	140X401	12	144X614	19	3/4 ST	77
132X574	18	140X402	12	145X129	15	300 Series	49
132X579	20	140X404	13	145X282	19	37TB-B Series	79
132X580	12	140X410	13	145X301	15	37TB-F Series	80
132X670	20	140X801	13	145X408	15	38TB-F Series	80
132X970	12	141X201	20	145X411	15	39TB-F Series	81
132X972	12	141X202	20	145X552	14	3TB-F Series	85
133X126	13	141X203	18	145X573	19	400 Series	50
133X270	19	141X205	20	145X579	14	40TB-B Series	79
133X272	19	141X300	12	145X583	19	40TB-F Series	81
133X280	19	141X301	20	145X586	15	410 GP Series	51
133X305	13	141X400	12	145X587	15	411 GP Series	58
133X320	15	141X403	12	145X592	15	41TB-F Series	82
-	-						



### **INDEX**

Catalog #	Page #	Catalog #	Page #	Catalog #	Page #	Catalog #	Page #
42TB-F Series	82	6M30AxBCU	98	885 RZ 04	35	CC1411	24
4TB-F Series	85	6M30AxSPQ	98	885 RZ 05	35	CC1411	24
599 GP Series	59	6M30AxSQ	98	885 RZ 06	35	CC1412	24
5TB-F Series	85	6R100AxB	105	885 RZ 07	35	CC1413	24
600 GP Series	52	6R100AxB	105	885 RZ 08	35	CC1414	24
600A GP Series	53	6R200AxB	105	885 RZ 09	35	CC1421	24
601 GP Series	54	6R30AxB	105	885 RZ 10	35	CC1422	24
602 GP Series	55	6R30AxBD-D	113	885 RZ 11	35	CC1423	24
603 GP Series	56	6R30AxS	105	885 RZ 12	35	CC1431	24
604 GP Series	45	6R30AxS	105	899 GP Series	60	CC1432	24
605 GP Series	46	6R30AxSP	105	8TB-F Series	86	CC1433	24
621 RZ Series	41	6R30AxSP	105	912 GP Series	61	CC1442	24
649 (Fanning Strips)	76	6R400AxB	105	985 GP 02	36	CC1443	24
650 (Fanning Strips)	76	6R600AxB	105	985 GP 03	36	CC1451	24
651 (Fanning Strips)	76	6R60AxB	105	985 GP 04	36	CC1452	24
652 (Fanning Strips)	76	6R60AxB	105	985 GP 05	36	CC1453	24
670A GP Series	47	6R60AxBD	113	985 GP 06	36	CC630	115
670A RZ Series	42	6R60AxBD-D	113	985 GP 07	36	CC660	115
671 GP Series	48	6SC30Ax-C	102	985 GP 08	36	CCM630	115
671 RZ Series	43	6SC30AxI-C	102	985 GP 09	36	CH1321	24
672 GP Series	49	6SJ30Ax	104	985 GP 10	36	CH1322	24
672 RZ Series	44	6SJ30Axl	104	985 GP 11	36	CH1323	24
699 GP Series	60	6SJ60Ax	104	985 GP 12	36	CH1331	24
6CC30AxB	101	6SJ60Axl	104	9TB-F Series	86	CH1332	24
6CC30AxBCU	101	6SM30Ax1-C	99	Agency	1	CH1333	24
6CC30AxSPQ	101	6SM30Ax-C	99	Approvals	'	CH1351	24
6CC30AxSQ	101	6T100A	109	BFPB-37-1-3	5	CHR2100	115
6F200AxBE	106	6T100AxB	109	BFPB-37-1-4	5	CHR230	115
6F30AxBD-D	113	6T200A	109	BFPB-37-1-5	5	CHR260	115
6F600AxB	106	6T200AxB	109	BFPB-37-1-6	5	CHR6100	115
6F60AxBD	113	6T400A	109	BFPB-50-2-2	5	CHR630	115
6F60AxBD-D	113	6T400AxB	109	BFPB-50-2-3	5	CHR660	115
6G38 TS	89	6T600A	109	BFPB-50-2-4	5	CJ6100-1C	115
6G38 TSKK	89	6T600AxB	109	BFPB-50-2-6	5	CJ6100-2C	115
6G44 SP DIN	91	6TB-F Series	85	C72201	27	CJ6100-3C	115
6H12 E C	92	6W30A1C	100	C72202	27	CJ630	115
6H12 E F	92	6W30A1F	100	C72203	27	CJ660	115
6H12 TSCU C	92	799 GP Series	59	C72204	27	CVR-MCC	115
6H12 TSCU F	92	7TB-F Series	86	C72205	27	CW 15xx	37
6J200AxBFBD	103	801 GP Series	54	C72206	27	CW 16xx	38
6J400AxBFBD	103	802 GP Series	55	C7220X	27	DIN R 1	116
6J600AxBFBD	103	812 GP Series	61	CC 15xx	37	DIN R 2	116
6J60AxBD	113	885 RZ 01	35	CC 16xx	38	EPB Series	7
6J60AxBD-D	113	885 RZ 02	35	CC 17xx	39	EPBAD21	8
6M30AxB	98	885 RZ 03	35	CC1402	24	EPBAD24	8
	-		-	CC1403	24	-	-



## **INDEX**

Catalog #	Page #	Catalog #	Page #	Catalog #	Page #	Catalog #	Page #
EPBAD42	8	HVPB212	6	R6J30AxSP	103	ST722E Series	25
EPBAD45	8	HVPB214	6	R6J60AxB	103	ST722Exx01	27
EPBAD71	8	HVPB602	10	R6T30AxB	109	ST722Exx02	27
EPBAD74	8	Insulator Strip	68	R6T30AxS	109	ST722Exx03	27
EPBAP42	8	J & JS Jumpers	74	R6T30AxSP	109	ST722Exx04	27
EPBAP45	8	KT's (Q-Connects)	72	RF100AxB	106	ST722Exx05	27
EPBAP71	8	KT375	32	RF30AxB	106	ST722Exx06	27
EPBAP74	8	Marking Strips	67	RF30AxS	106	ST722Exxxx	26
EPBCD42	8	MIK3	93	RF30AxSP	106	ST722ExxxxT1	26
EPBCD45	8	MIK5	93	RF400AxB	106	ST722ExxxxT1S	26
EPBCD71	8	MIK10	93	RF60AxB	106	ST722ExxxxT2	26
EPBCD74	8	MIK16	93	RF60AxSQ	106	ST723 Series	29
EPBCP45	8	MIK25	93	RG15AxB	110	ST723B38xx	29
EPBCP74	8	MIKE4	93	RG15AxBCU	110	ST750 Series	31
EPBDP42	8	MIKE10	93	RG15AxSPQ	110	ST750M4	31
EPBDP71	8	MIKE16	93	RG15AxSQ	110	ST750M6	31
F200AxBE	106	MIKSI5	93	RG20AxB	110	ST750M8	31
F600AxB	106	MIKTS4	93	RG20AxSPQ	110	ST750M12	31
F60AxBD	113	Military M-Strips	83	RG20AxSQ	110	ST750M16	31
F60AxBD-D	113	MSH Hardware	94	RG30AxB	110	ST755 Series	31
Flex Wire	3	MSH Labels	94	RG30AxBCU	110	ST755M4	31
FSM25E	112	P-Block Covers	24	RG30AxSPQ	110	ST755M5	31
FSM37E	112	PV10BW	97	RG30AxSQ	110	ST755M10	31
FSM50E	112	PV10BWI	97	RJ, RJS Jumpers	74	ST755M12	31
GL02	32	R100AxB	105	RT30AxB	109	STSF	114
GL20	32	R200AxBE	105	RT60AxB	109	Stud / Turret TBs	75
GL35	32	R30AxB	105	SCCR	2	T100AxB	109
Grounding Connector	32	R30AxS	105	SPB (Straddle	74	T200AxB	109
Grounding Lugs	32	R30AxSP	105	Plate)	77	T400AxB	109
H Fuse Panels	107	R400AxB	105	ST (Solder Lugs)	77	T600AxB	109
HVPB101	10	R600AxB	105	ST 710 31 ST 710 38	30 30	Terms & Conditions	117
HVPB103	10	R60AxB	105	ST710 Series	30	Warnings	119
HVPB105	10	R60AxBD	113	ST715 Series	28	Wire Clamp	74
HVPB107	10	R60AxBD-D	113	ST715 Series	28	Wire Reference Chart	2
HVPB108	10	R60AxSQ	105	ST722 Covers	27	Y, YSY, Z (solder lugs)	77
HVPB109	10	R6CC60AxB	101	ST722 Covers	25		
HVPB112	6	R6F100AxB	106	ST722Bxx02	23 27		
HVPB114	6	R6F30AxB	106	ST722Bxx03	27		
HVPB201	10	R6F30AxS	106	ST722Bxx04	27		
HVPB203	10	R6F30AxSP	106	ST722Bxx05	27		
HVPB205	10	R6F400AxB	106	ST722Bxx06	27		
HVPB207	10	R6F60AxB	106	ST722Bxxxx	26		
HVPB208	10	R6J100AxB	103	ST722BxxxxT1	26		
HVPB210	10	R6J30AxB	103	ST722BxxxxT1S	26		
HVPB211	10	R6J30AxS	103	ST722BxxxxT2	26		
				JI / ZZDANXX I Z	20		



# **NOTES**

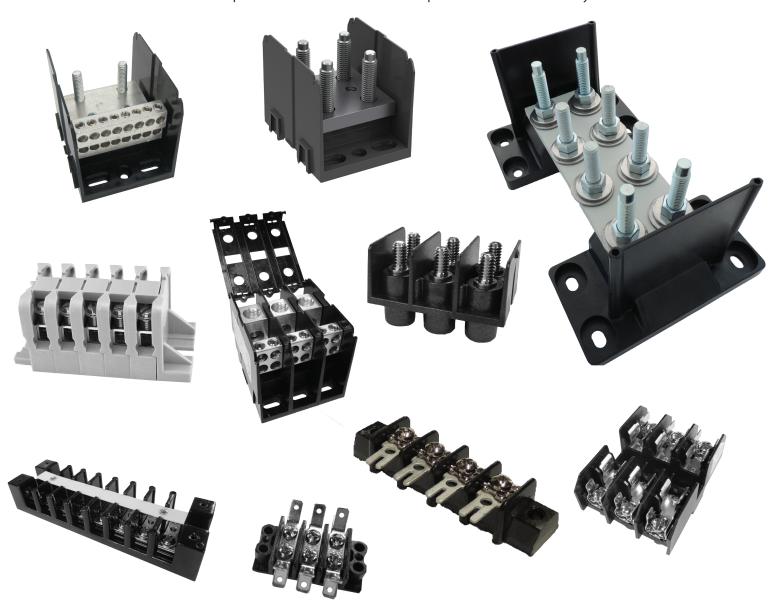


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