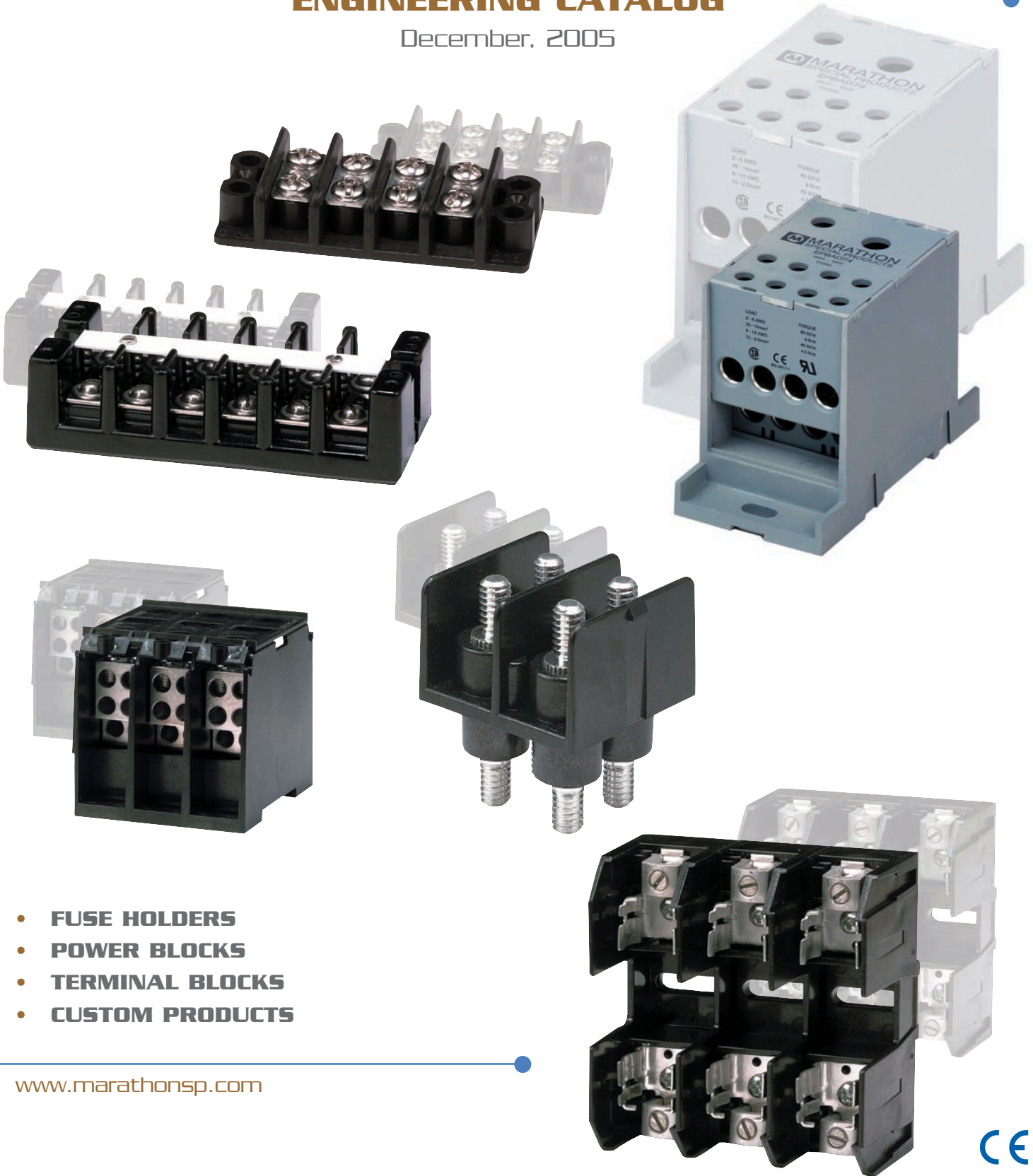




ENGINEERING CATALOG

December, 2005



- FUSE HOLDERS
- POWER BLOCKS
- TERMINAL BLOCKS
- CUSTOM PRODUCTS

www.marathonsp.com



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General Information

Marathon Special Products, a REGAL-BELOIT Company, has served the electrical/electronic component industry for over 70 years. Our facility in Bowling Green, Ohio contains all manufacturing and warehousing operations including an extensive electrical test lab.

We offer a broad range of fuse holders and terminal blocks, including Kulka® terminal blocks. In addition, we have the expertise to design and manufacture non-standard products for specific customer applications.

On February 1, 1994 Marathon Special Products was registered to ISO standards. We are currently registered to ISO 9001:2000 quality standards.

Marathon Special Products also offers a line of DIN sectional terminal blocks.

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.

- UL** Listed by Underwriters Laboratories, products are qualified for use in equipment without end use agency approval when applied within products rated performance.
- UR** Recognized by Underwriters Laboratories, suitable for use only in end use equipment where Underwriters Laboratories determine acceptability of the combination.
- CSA** Certified by Canadian Standards Association, suitable for use in other equipment where Canadian Standards Association determines the suitability of the combination.
- CE** Compliance with European Union Low Voltage Directive.

Tightening Torque:

Recommended tightening torque is listed for all products, either on the carton label or the product label. All torque recommendations are based on UL 486. In some cases, because of various connector designs, our recommended torque is different from the torque tables shown in UL 486. However, these products passed the heating cycling and static heating tests as specified 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.

General Information

Wire Chart:

Stranded wire sizes and ampacity for 75° C copper wire.

										
SIZE	14	12	10	8	6	4	3	2	1	1/0
DIAMETER	.073	.092	.115	.146	.184	.235	.281	.295	.335	.380
AMPS	15	20	30	50	65	85	100	115	130	150
										
SIZE	2/0	3/0	4/0	250 kcmil	300 kcmil	350 kcmil	400 kcmil	500 kcmil		
DIAMETER	.420	.475	.530	.580	.635	.690	.730	.820		
AMPS	175	200	230	255	285	310	335	380		

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. Since changes to products occur, it is recommended that the end user request samples for evaluation. Marathon Special Products reserves the right to change or update without notice.

General Information:

Marathon has been manufacturing quality fuse holders for over 30 years. The key word is quality. It is incorporated into every Marathon fuse holder, right along with design.

The product line includes a broad range of holders to accommodate the following fuses: Class H, K, R, T, J, CC, G, CD and M (miscellaneous).

The majority of these fuse holders are available in 250 and 600 volts at current ratings from 30 through 600 amperes.

The Class R, T, J, CD and CC fuse holders have passed 200,000 ampere high current interrupt testing in accordance with UL standard UL 512 for fuse holders.

Class R and CC fuse holders have a rejection feature which prevents the insertion of a fuse with lower interrupting rating. The size of Class T and J fuse holders prevent the insertion of a fuse with lower interrupting rating.

Fuse Clips:

Marathon fuse holders are equipped with the patented "Cool-Clip®". This fuse clip is standard on all 30 through 200 amp fuse holders. The heat generated in a fuse clip can actually reduce the life of the fuse, the clip and the conductor, as well as the protection power of the fusing device. No longer is it necessary for heat build-up to rob equipment of protection and extended life.

Marathon's revolutionary "Cool-Clip®" is the result of an extensive analytical optimization process. Heat is dissipated so well through the "Cool-Clip®" the conductor acts as a heat sink and at the same time eliminates broken or sprung fuse clips.

Reinforcing members are available for most Marathon fuse holders, for use where an extra tight connection is required. These are recommended for electric heat or where high ambients are present.

To comply with Automotive Industry Standard ET-2 use the following options:

- Class H Holder with Reinforcing Member
- 30 Amp use SP Connector or Copper Box Connector
- 60 Amp use Copper Box Connector

Wire Connectors:

Marathon fuse holders are available with three types of wire connectors.

S — Screw Connector

An economical connector for use with a wire, or either a ring or spade type terminal. Screw is #10-32 steel.

SQ — Screw Connector w/Quick Connects

Same as screw connector with additional quick connect options.

SP — Sems Pressure Connector

A positive pressure connector eliminating the need for a wire terminal. Ideal for use where there is a vibration problem. Sems pressure screw is #10-32 steel.

SPQ — Sems Pressure Connector w/Quick Connects

Same as Sems connector with additional quick connect options.

B — Box Connector

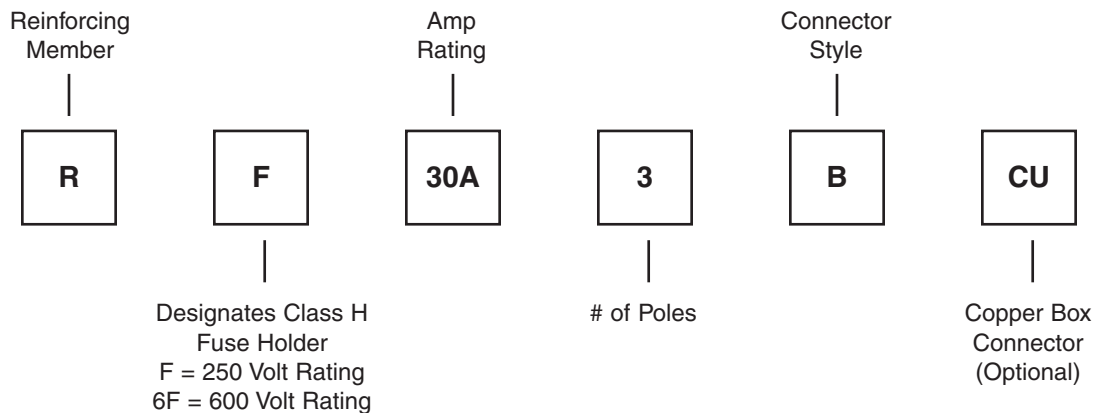
Suitable for use with stranded or solid wire. Connector is aluminum tin plated.

Copper Box Connectors are available on 30 and 60 amp fuse holders. Add CU after the catalog number.

Wire Ranges:

All wire ranges shown in the fuse holder section are the ranges of the wire connector that is used as a component of the fuse holder assembly.

Ordering Code:



Applications:

Marathon fuse holders can be used in various applications, including control panels, lighting and heating circuits, motor circuits, circuit breaker protection, switchgear equipment, appliances, electric heat, air conditioning and refrigeration equipment, elevator systems and transformer protection.

Class H & K Fuse Holder - 250 Volt

Specifications:

- Have Been Tested & Approved for 10,000 Amp Interrupting Capacity
- Patented Cool-Clip® Design
- UL Listed File No. E35113
- CSA Cert. File No. LR21455
- CE



30 & 60 Amp:

- Clip, Copper Alloy, Tin Plated

100 Amp:

- Clip, Copper Alloy, Tin Plated, with reject pin

200 Amp:

- Clip, One Piece Aluminum, Tin Plated

400 & 600 Amp:

- Clip, Copper Alloy, Tin Plated

Catalog #:

Std.	Reinforced	Poles	Amp	Base Materials	Wire Range	Fuse Size	Fuses		
F30A1S	RF30A1S	1	30	Thermoplastic	#10-#22 AWG CU	9/16" DIA BY 2"	A2Y CRN NLN NON NRN OT OTN RLN RF		
F30A2S	RF30A2S	2							
F30A3S	RF30A3S	3							
F30A1SP	RF30A1SP	1			#10-#14 AWG CU				
F30A2SP	RF30A2SP	2							
F30A3SP	RF30A3SP	3							
F30A1B	RF30A1B	1			#6-#14 AWG CU				
F30A2B	RF30A2B	2							
F30A3B	RF30A3B	3							
F60A1SQ*	RF60A1SQ*	1	60	Thermoplastic	#10-#22 AWG CU	13/16" DIA BY 3"			
F60A2SQ*	RF60A2SQ*	2							
F60A3SQ*	RF60A3SQ*	3							
F60A1B	RF60A1B	1			#2-#14 AWG CU #2-#12 AWG AL				
F60A2B	RF60A2B	2							
F60A3B	RF60A3B	3							
RF100A1B	SAME	1			100		Phenolic	#2/0-#14 AWG CU #2/0-#12 AWG AL	1" DIA BY 5 7/8"
RF100A2B		2							
RF100A3B		3							
F200A1BE	SAME	1	200	Polyester	250 kcmil - #6 AWG CU AL	1 1/2" DIA BY 7 1/8"			
F200A3BE		3							
RF400A1B	N/A	1	400	Phenolic	(2) 350 kcmil - #6 AWG CU AL	2 13/32" DIA BY 8 5/8"			
RF400A3B		3							
F600A1B	N/A	1	600	Phenolic	(2) 500 kcmil - #4 AWG CU AL	2 29/32" DIA BY 10 3/8"			
F600A3B		3							

*UL Recognized File No. E35113
Contact Factory for Stud Options

Class H & K Fuse Holders - 600 Volt

Specifications:

- Have Been Tested & Approved for 10,000 Amp Interrupting Capacity
- Patented Cool-Clip® Design
- UL Listed File No. E35113
- CSA Cert. File No. LR21455
- CE



30 & 60 Amp:

- Clip, Copper Alloy, Tin Plated

100 Amp:

- Clip, Copper Alloy, Tin Plated

200 Amp:

- Clip, One Piece Aluminum, Tin Plated

400 & 600 Amp:

- Clip, Copper Alloy, Tin Plated

Catalog #:

Std.	Reinforced	Poles	Amp	Base Materials	Wire Range	Fuse Size	Fuses	
6F30A1S	R6F30A1S	1	30	Phenolic	#10-#22 AWG CU	13/16" DIA BY 5"	A6Y CRS NLS NOS NRS OTS RES RFS RLS	
6F30A2S	R6F30A2S	2			#10-#14 AWG CU			
6F30A3S	R6F30A3S	3			#6-#14 AWG CU			
6F30A1SP	R6F30A1SP	1			#2-#14 AWG CU			1 1/16" DIA BY 5 1/2"
6F30A2SP	R6F30A2SP	2			#2-#12 AWG AL			
6F30A3SP	R6F30A3SP	3			#2/0-#14 AWG CU			
6F30A1B	R6F30A1B	1			#2/0-#12 AWG AL			
6F30A2B	R6F30A2B	2			250 kcmil -			1 3/4" DIA BY 9 5/8"
6F30A3B	R6F30A3B	3			#6 AWG CU AL			
6F60A1B	R6F60A1B	1	60	Phenolic	(2) 350 kcmil -	2 29/32" DIA BY 11 5/8"		
6F60A2B	R6F60A2B	2			#6 AWG CU AL			
6F60A3B	R6F60A3B	3			(2) 500 kcmil -	3 7/16" DIA BY 13 3/8"		
R6F100A1B	SAME	1	100	Polyester	#4 AWG CU AL			
R6F100A2B		2						
R6F100A3B		3						
6F200A1BE	N/A	1	200	Phenolic				
6F200A3BE		3						
R6F400A1B	N/A	1	400	Phenolic				
R6F400A3B		3						
6F600A1B	N/A	1	600	Phenolic				
6F600A3B		3						

Contact Factory for Stud Options

Class H & K Fuse Panels

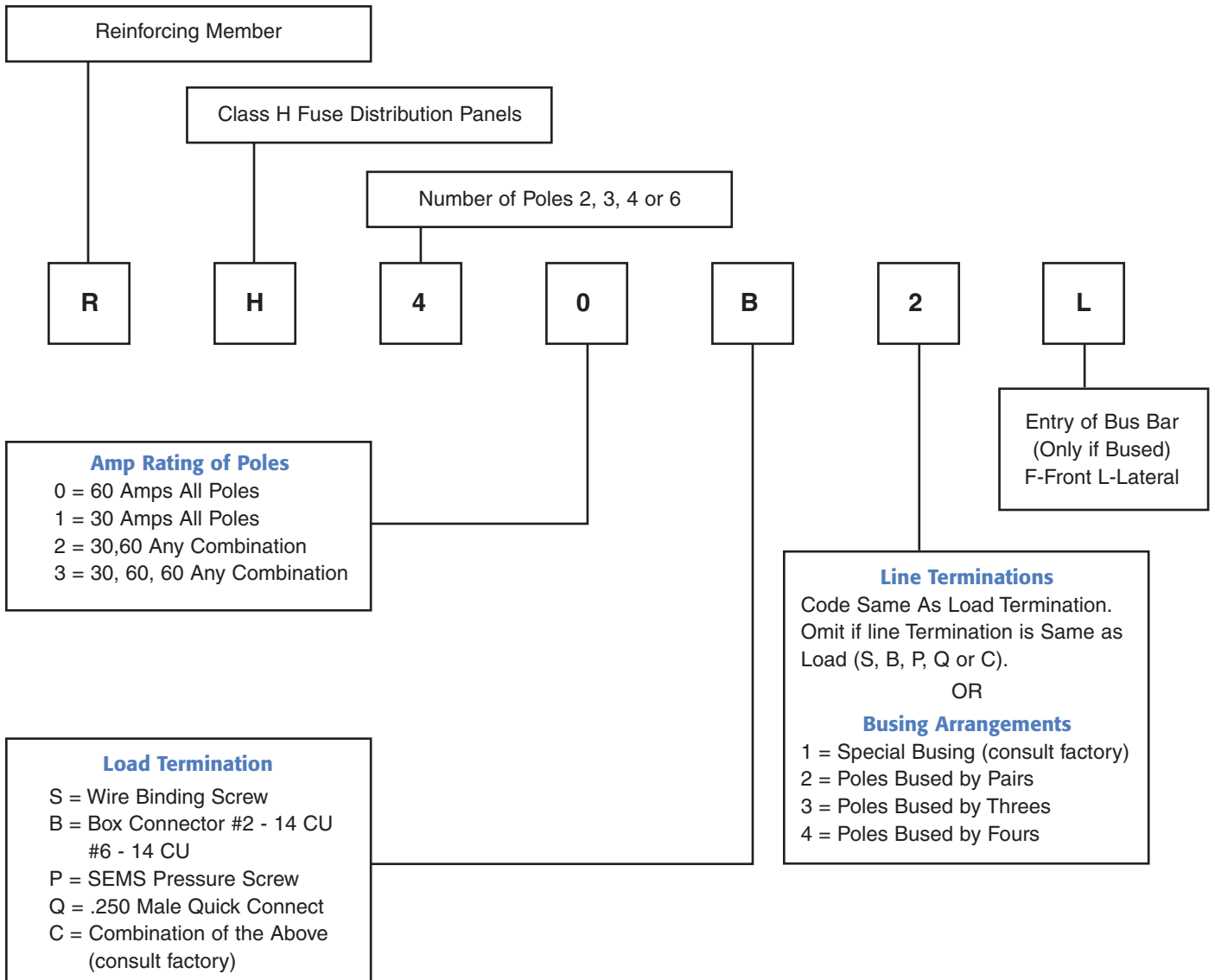
30 and 60 Amp 250 Volt



Specifications:

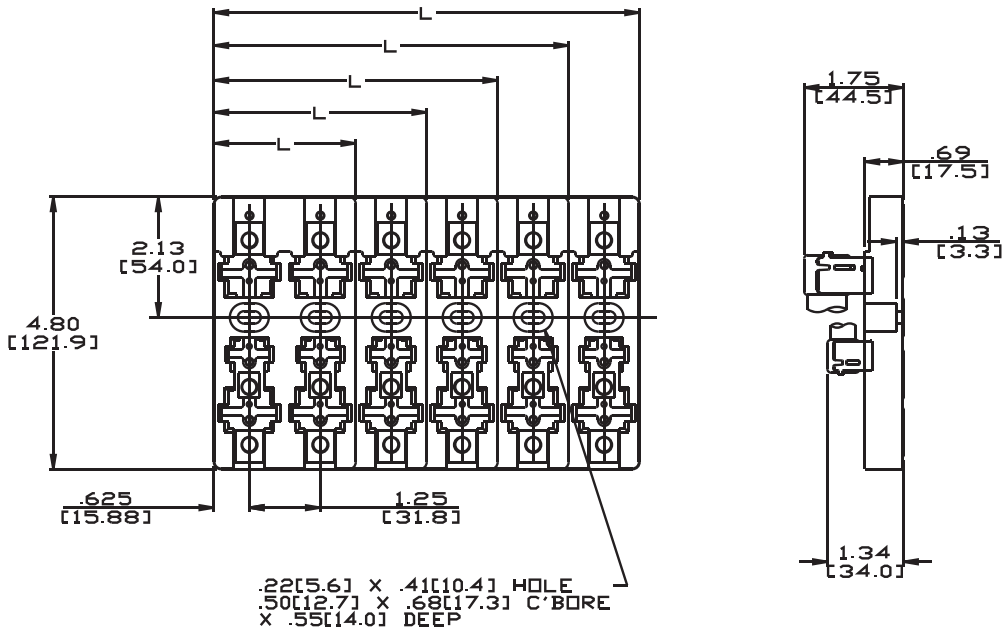
- Base, General Purpose Phenolic, 150° C
- Patented Cool-Clip® Design
- Clip, Copper Alloy, Tin Plated
- Reinforcing Member Available
- Bus Bars are Available with #2/0 - #14 Awg or 250 kcmil - #6 Wire Ranges
- Consult Factory for Special Requirements
- UL Recognized File No. E35113
- CSA Certified File No. LR21455
- CE

Ordering Code:



Class H & K Fuse Panels (Cont.)

30 and 60 Amp 250 Volt



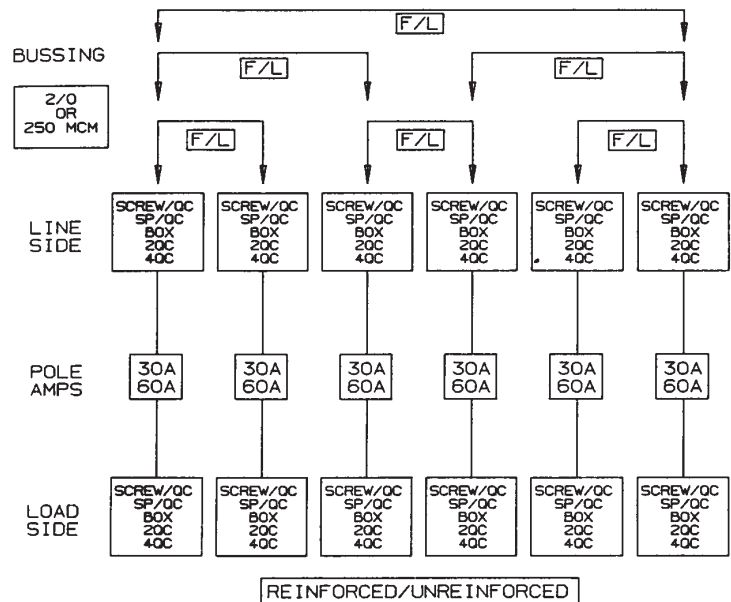
Poles No.	Dimensions (IN)		Poles No.	Dimensions (IN)		Dimensions
	L	(MM)		L	(MM)	
2	2.50	63.5	4	5.00	127.0	(IN)
3	3.75	95.25	6	7.50	190.5	(MM)

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)

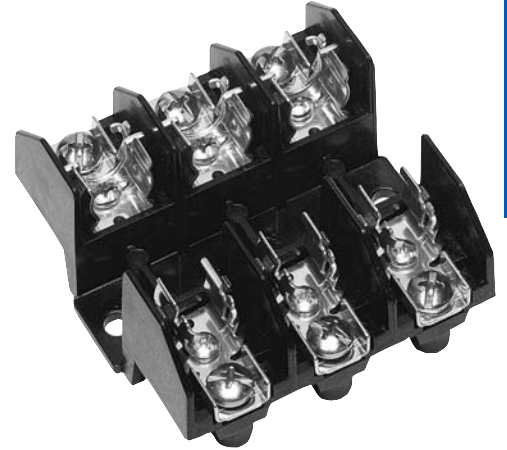
Consult factory for other modifications.



Class R Fuse Holders - 250 Volt

Specifications:

- Have Been Tested & Approved for 200,000 Amp Interrupting Capacity
- Patented Cool-Clip® Design
- UL Listed File No. E35113
- CSA Certified File No. LR21455
- CE



30 & 60 Amp:

- Clip, Copper Alloy, Tin Plated, with Patented Reject Member

100 Amp:

- Clip, Copper Alloy, Tin Plated, with Reject Pin

200 Amp:

- Clip, One Piece Aluminum, Tin Plated, with Reject Pin

400 & 600 Amp:

- Clip, Copper Alloy, Tin Plated, with Reject Pin

Catalog #:

Std.	Reinforced	Poles	Amp	Base Materials	Wire Range	Fuse Size	Fuses			
R30A1S R30A2S R30A3S	SAME	1 2 3	30	Thermoplastic	#10-#22 AWG CU	9/16" DIA BY 2"	A2D-R A2K-R DLN-R FLNR FRN-R KLNR KTS-R LLNRK LPN-RK TLN TR-R			
R30A1SP R30A2SP R30A3SP		1 2 3			#10-#14 AWG CU					
R30A1B R30A2B R30A3B		1 2 3			#6-#14 AWG CU					
R60A1SQ* R60A2SQ* R60A3SQ*		1 2 3			60			Thermoplastic	#10-#22 AWG CU	13/16" DIA BY 3"
R60A1B R60A2B R60A3B		1 2 3							#2-#14 AWG CU #2-#12 AWG AL	
R100A1B R100A2B R100A3B		1 2 3							100	
R200A1BE R200A3BE		1 3	200	Polyester	250 kcmil - #6 AWG CU AL	1 1/2" DIA BY 7 1/8"				
R400A1B R400A3B		1 3			400	Phenolic		(2) 350 kcmil - #6 AWG CU AL	2 13/32" DIA BY 8 5/8"	
R600A1B R600A3B		N/A 3	600	Phenolic				(2) 500 kcmil - #4 AWG CU AL	2 29/32" DIA BY 10 3/8"	

*UL Recognized File No. E35113
Contact Factory for Stud Options

Class R Fuse Holders - 600 Volt

Specifications:

- Have Been Tested & Approved for 200,000 Amp Interrupting Capacity
- Patented Cool-Clip® Design
- UL Listed File No. E35113
- CSA Certified File No. LR21455
- CE

30 & 60 Amp:

- Clip, Copper Alloy, Tin Plated, with Patented Reject Member

100 Amp:

- Clip, Copper Alloy, Tin Plated, with Reject Pin

200 Amp:

- Clip, One Piece Aluminum, Tin Plated, with Reject Pin

400 & 600 Amp:

- Clip, Copper Alloy, Tin Plated, with Reject Pin



Catalog #:

Std.	Reinforced	Poles	Amp	Base Materials	Wire Range	Fuse Size	Fuses
6R30A1S	SAME	1	30	Phenolic	#10-#22 AWG CU	13/16" DIA BY 5"	A6D-R A6K-R DLS-R FLSR FLSR_ID FRS-R IDSR KLSR KTS-R LLSRK LLSRK_ID LPS-RK TRS-R
6R30A2S		2					
6R30A3S		3					
6R30A1SP		1			#10-#14 AWG CU		
6R30A2SP		2					
6R30A3SP		3					
6R30A1B		1			#6-#14 AWG CU		
6R30A2B		2					
6R30A3B		3					
6R60A1B		1	60	Phenolic	#2-#14 AWG CU #2-#12 AWG AL	1 1/16" DIA BY 5 1/2"	
6R60A2B		2					
6R60A3B		3					
6R100A1B		1	100	Phenolic	#2/0-#14 AWG CU #2/0-#12 AWG AL	1 11/32" DIA BY 7 7/8"	
6R100A2B		2					
6R100A3B		3					
6R200A1BE		1	200	Polyester	250 kcmil - #6 AWG CU AL	1 3/4" DIA BY 9 5/8"	
6R200A3BE		3					
6R400A1B		1	400	Phenolic	(2) 350 kcmil - #6 AWG CU AL	2 29/32" DIA BY 11 5/8"	
6R400A3B	3						
6R600A1B	N/A	1	600	(2) 500 kcmil - #4 AWG CU AL	3 7/16" DIA BY 13 3/8"		
6R600A3B		3					

Contact Factory for Stud Options

Class H and R Fuse Holder Dimensions

		Figure	A	B	C	D	E	F	G	H	I	J	K	L			
F30A	1 POLE	SEE FIGURE #1															
RF30A	2 POLE																
R30A	3 POLE																
F60A	1 POLE	FIG2	4.83	1.48	2.01	1.24	1.8	.50	.49	1.33	N/A	N/A	.218 DIA THRU .40 DIA X .63 C'BORE	.11			
RF60A	2 POLE			2.86													
R60A	3 POLE			4.23													
RF100A	1 POLE	FIG 2	6.12	1.93	2.44	2.37	1.87	.62	.61	1.56	N/A	N/A	.28 DIA THRU .53 DIA X .59 C'BORE	.36			
R100A	2 POLE			3.49													
	3 POLE			5.05													
F200A	1 POLE	FIG 4	7.13	3.00	3.01	3.00	2.06	2.00	.50	8.00	N/A	N/A	.28 DIA THRU .63 DIA X .38 C'BORE	.26			
R200A	2 POLE			9.00													
	3 POLE																
RF400A	1 POLE	FIG 5	11.5	3.5	3.31	4.00	3.75	2.25	.62	N/A	N/A	5/16 HEX	.28 DIA THRU .56 DIA X .44 C'BORE	.19			
R400A	2 POLE			10.5				9.25									
	3 POLE																
F600A	1 POLE	FIG 5	14.00	4.5	4.31	5.00	4.50	3.00	.75	N/A	N/A	3/8 HEX	.28 DIA THRU .56 DIA X .44 C'BORE	.19			
R600A	2 POLE			12.5				11.00									
	3 POLE																
6F30A	1 POLE	FIG 3	6.25	1.63	1.69	3.13	1.56	.31	.62	.51	N/A	.34	.28 DIA THRU .50 DIA X .44 C'BORE	.25			
R6F30A	2 POLE			2.94				N/A							.38	1.56	N/A
6R30A	3 POLE			4.25				N/A							.25	3.13	N/A
6F60A	1 POLE	FIG 3	6.75	1.95	2.12	3.12	1.81	N/A	.62	.66	N/A	1.56	.28 DIA THRU .50 DIA X .50 C'BORE	.33			
R6F60A	2 POLE			3.51											3.12	1.56	3.12
6R60A	3 POLE			5.08											3.12	3.12	3.12
R6F100A	1 POLE	FIG 3	8.12	2.1	2.60	4.26	1.94	N/A	.87	.61	1.81	N/A	.28 DIA THRU .59 DIA X .64 C'BORE	.23			
6R100A	2 POLE			3.91											1.81	3.62	
	3 POLE			5.73											3.62		
6F200A	1 POLE	FIG 4	9.63	3.00	3.01	3.00	3.31	2.00	.5	8.00	N/A	N/A	.33 DIA THRU .73 DIA X .44 C'BORE	.26			
6R200A	2 POLE			9.00													
	3 POLE																
R6F400A	1 POLE	FIG 5	14.50	3.50	3.31	7.00	3.75	2.25	.62	N/A	N/A	5/16 HEX	.28 DIA THRU .56 DIA X .44 C'BORE	.19			
6R400A	2 POLE			10.50				9.25									
	3 POLE																
6F600A	1 POLE	FIG 5	17.0	4.50	4.31	8.00	4.50	3.00	.75	N/A	N/A	3/8 HEX	.28 DIA THRU .56 DIA X .44 C'BORE	.19			
6R600A	2 POLE			12.50				11.00									
	3 POLE																

MM = Dim X 25.4

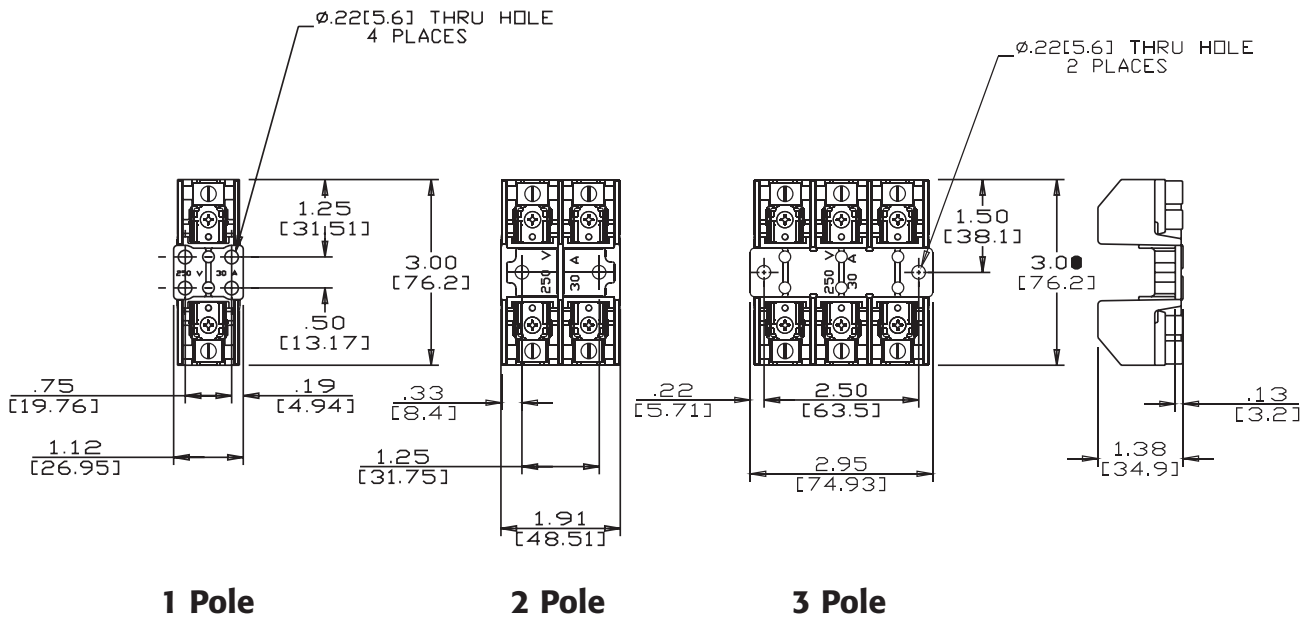


Figure 1:

Class H and R Fuse Holder Dimensions

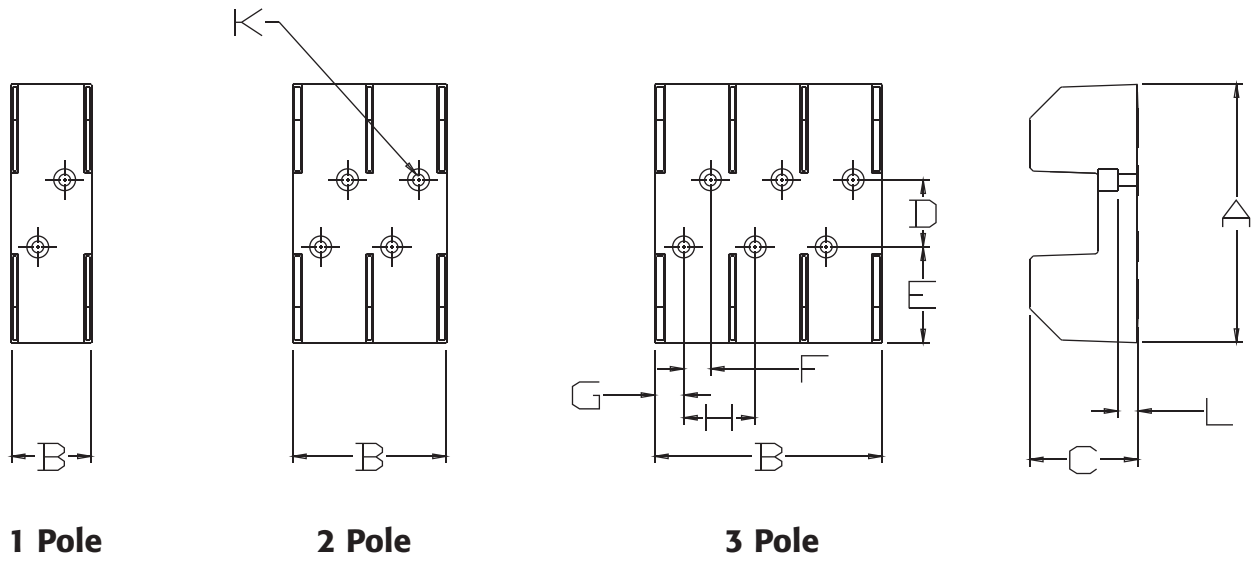


Figure 2:

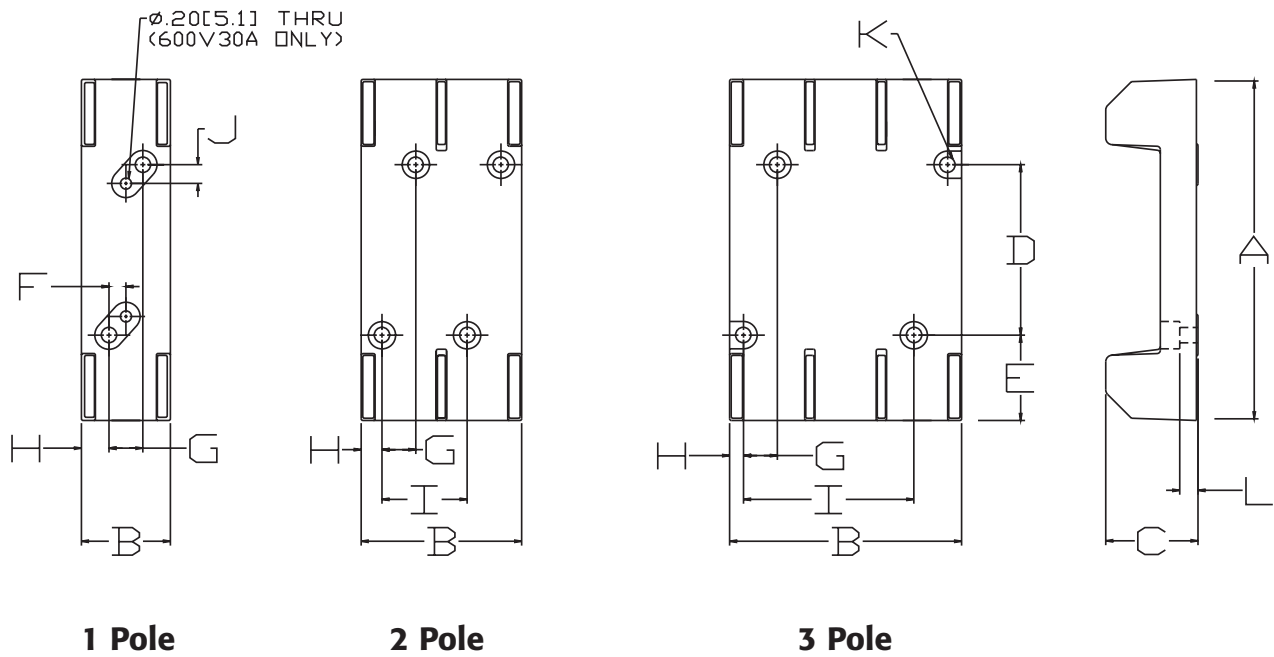


Figure 3:

Class H and R Fuse Holder Dimensions

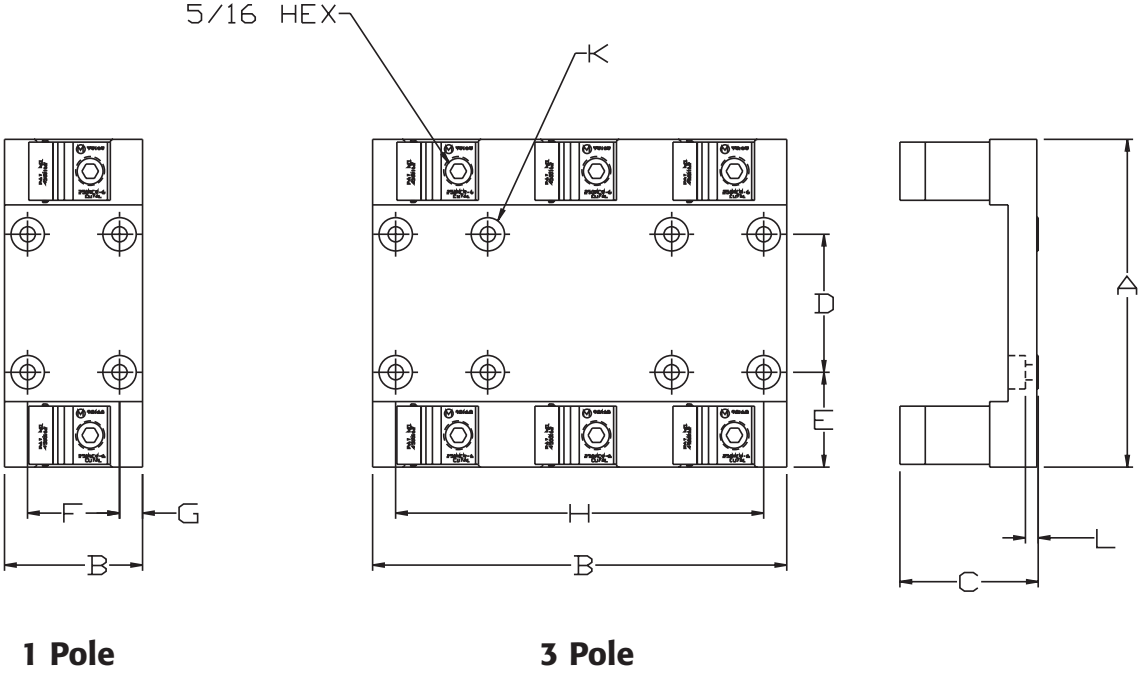


Figure 4:

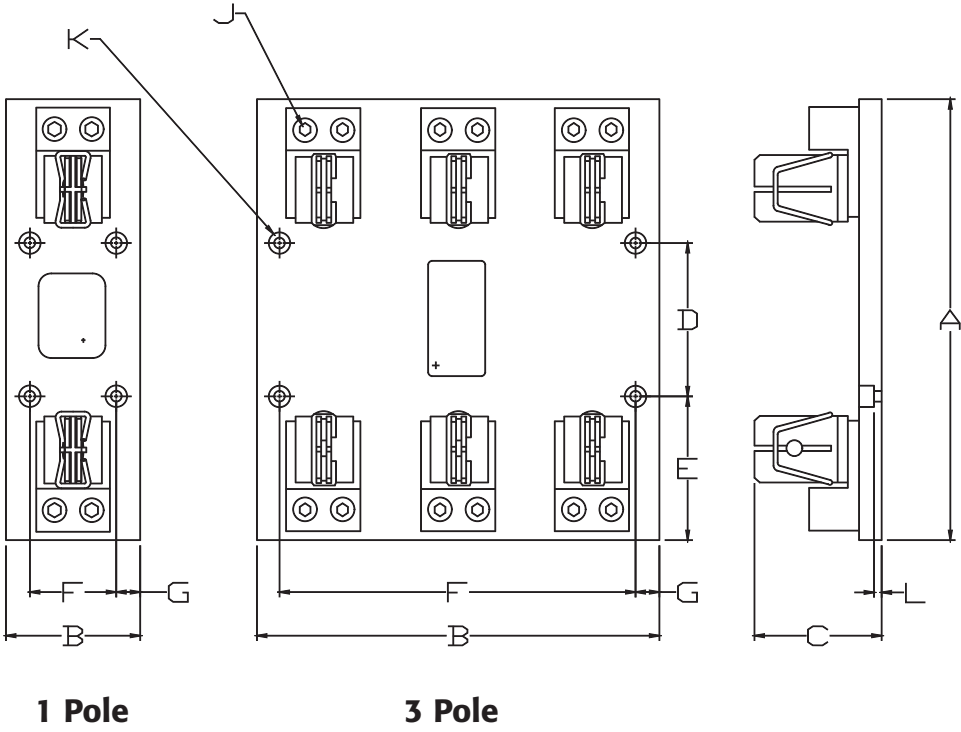


Figure 5:

Class T Fuse Holders - 300 Volt

Specifications:

- Have Been Tested & Approved for 200,000 Amp Interrupting Capacity
- Patented Cool-Clip® Design
- UL Listed File No. E35113
- CSA Certified File No. LR21455
- CE



30 & 60 Amp:

- Clip, Copper Alloy, Tin Plated, with Patented Reject Member

100 Amp:

- Connector, One Piece Aluminum with Integral Heat Sink, Tin Plated Bolt
- 1/4"-20 X 1/2", 1/4" Belleville Washer

200 Amp:

- Connector, One Piece Aluminum with Integral Heat Sink, Tin Plated Bolt, 5/16"-18 X 3/4" Hex Head, 5/16" Belleville Washer

400 & 600 Amp:

- Connector, One Piece Aluminum with Integral Heat Sink, Tin Plated Bolt, 3/8"-16 X 3/4" Hex Head

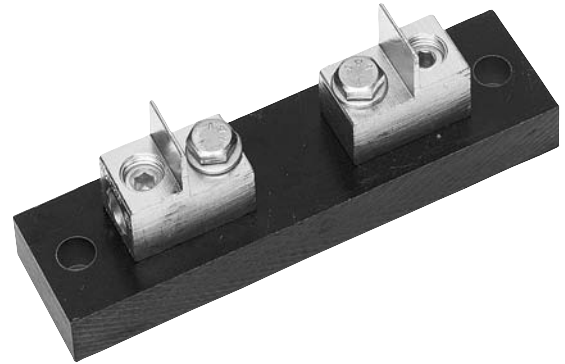
Catalog #:

Std.	Reinforced	Poles	Amp	Base Materials	Wire Range	Fuse Size	Fuses
T30A2B	RT30A2B	2	30	Phenolic	#2-#14 AWG CU #2-#12 AWG AL	13/32" DIA BY	A3T JJN JLLN
T30A3B	RT30A3B	3				7/8"	
T60A2B	RT60A2B	2	60		#2/0-#14 AWG CU #2/0-#12 AWG AL	9/16" DIA BY	
T60A3B	RT60A3B	3				7/8"	
T100A1B	N/A	1	100		250 kcmil	13/16" DIA BY	
T100A3B		3				2 5/32"	
T200A1B		1	200		#6 AWG CU AL	1 1/16" DIA BY	
T200A3B		3				2 7/16"	
T400A1B		1	400		(2) 250 kcmil - #6 AWG CU AL	1 11/32" DIA BY	
T600A1B						600	

Class T Fuse Holders - 600 Volt

Specifications:

- Have Been Tested & Approved for 200,000 Amp Interrupting Capacity
- Patented Cool-Clip® Design
- UL Listed File No. E35113
- CSA Certified File No. LR21455
- CE



30 & 60 Amp:

- Clip, Copper Alloy, Tin Plated, with Patented Reject Member

100 Amp:

- Connector, One Piece Aluminum with Integral Heat Sink, Tin Plated Bolt
- 1/4"-20 X 1/2" Bolt
- 1/4" Belleville Washer

200 Amp:

- Connector, One Piece Aluminum with Integral Heat Sink, Tin Plated Bolt
- 5/16"-18 X 3/4" Hex Head
- 5/16" Belleville Washer

400 & 600 Amp:

- Connector, One Piece Aluminum with Integral Heat Sink, Tin Plated Bolt
- 3/8"-16 X 3/4" Hex Head
- 3/8" Belleville Washer

Catalog#:

Std.	Reinforced	Poles	Amp	Base Materials	Wire Range	Fuse Size	Fuses	
6T30A2S	R6T30A2S	2	30	Phenolic	#10-#22 AWG CU	9/16" DIA BY 1 1/2"	A6T JJS JLLS	
6T30A3S	R6T30A3S	3			#10-#14 AWG CU			
6T30A2SP	R6T30A2SP	2			#2-#14 AWG CU			
6T30A3SP	R6T30A3SP	3			#2-#12 AWG AL	13/16" DIA BY 1 9/16"		
6T30A2B	R6T30A2B	2			#2/0-#14 AWG CU #2/0-#12 AWG AL	13/16" DIA BY 2 61/64"		
6T30A3B	R6T30A3B	3				1 1/16" DIA BY 3 1/4"		
R6T60A2B	SAME	2	60					
R6T60A3B		3						
6T100A1B	N/A	1	100					
6T100A3B		3						
6T200A1B		1	200					
6T200A3B		3						
6T400A1B		1	400	600				
6T600A1B			600					
					(2) 250 kcmil - #6 AWG CU AL	1 39/64" DIA BY 3 5/8"		
					(2) 500 kcmil - #6 AWG CU AL	2 5/64" DIA BY 3 63/64"		

Class T Dimensions

		Figure	A	B	C	D	E	F	G	H	I	J
T30A	2 POLE	FIG 1	1.12	SEE FIGURE #1								
RT30A	3 POLE											
T60A	2 POLE	FIG 1	1.28	SEE FIGURE #1								
RT60A	3 POLE											
T100A	1 POLE	FIG 2	5.25	1.37	1.87	4.50	0.38	0.69	N/A	0.20 THRU 0.37 X .44 C'BORE	3/16 HEX	0.19
	3 POLE			4.12								
T200A	1 POLE	FIG 2	7.00	1.50	2.25	6.25	0.38	0.75	N/A	0.28 THRU 0.50 X .44 C'BORE	5/16 HEX	0.19
	3 POLE			4.50								
T400A	1 POLE	FIG 3	8.12	2.25	2.37	7.37	0.38	1.12	N/A	0.28 THRU 0.50 X .44 C'BORE	N/A	0.19
T600A	1 POLE	FIG 4	8.75	2.75	2.62	8.06	0.34	0.38	2.00	0.28 THRU 0.50 X .44 C'BORE	N/A	0.19
6T30A	2 POLE	FIG 5	1.28	SEE FIGURE #5								
R6T30A	3 POLE											
6T60A	2 POLE	FIG 5	1.74	SEE FIGURE #5								
R6T60A	3 POLE											
6T100A	1 POLE	FIG 2	6.06	1.37	1.87	5.31	0.38	0.69	N/A	0.20 THRU 0.37 X .44 C'BORE	3/16 HEX	0.19
	3 POLE			4.12								
6T200A	1 POLE	FIG 2	7.75	1.50	2.25	7.00	0.38	0.75	N/A	0.28 THRU 0.50 X .44 C'BORE	5/16 HEX	0.19
	3 POLE			4.50								
6T400A	1 POLE	FIG 3	9.00	2.25	2.37	8.25	0.38	1.12	N/A	0.28 THRU 0.50 X .44 C'BORE	N/A	0.19
6T600A	1 POLE	FIG 4	9.75	2.75	2.62	9.00	0.38	0.38	2.00	0.28 THRU 0.50 X .44 C'BORE	N/A	0.19

MM = Dim X 25.4

Class T Dimensions

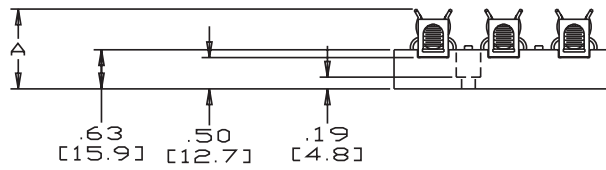
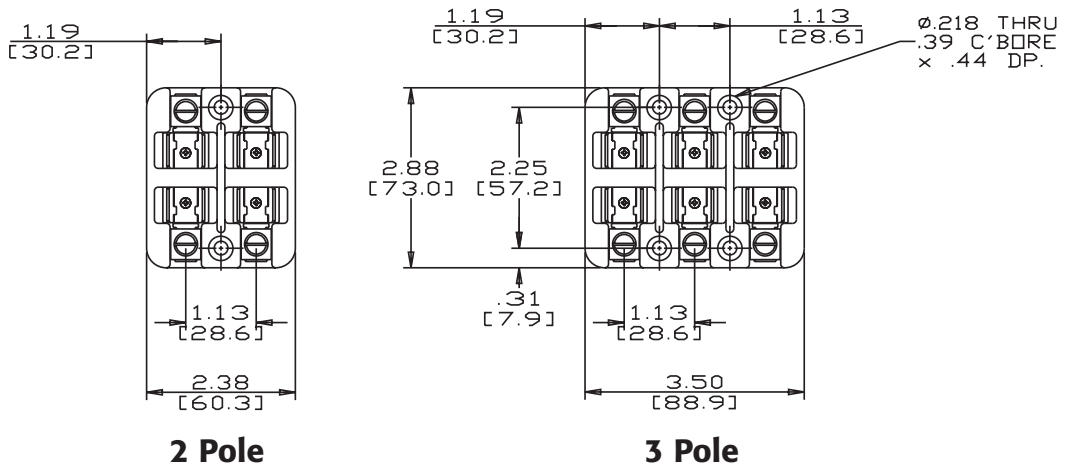


Figure 1:

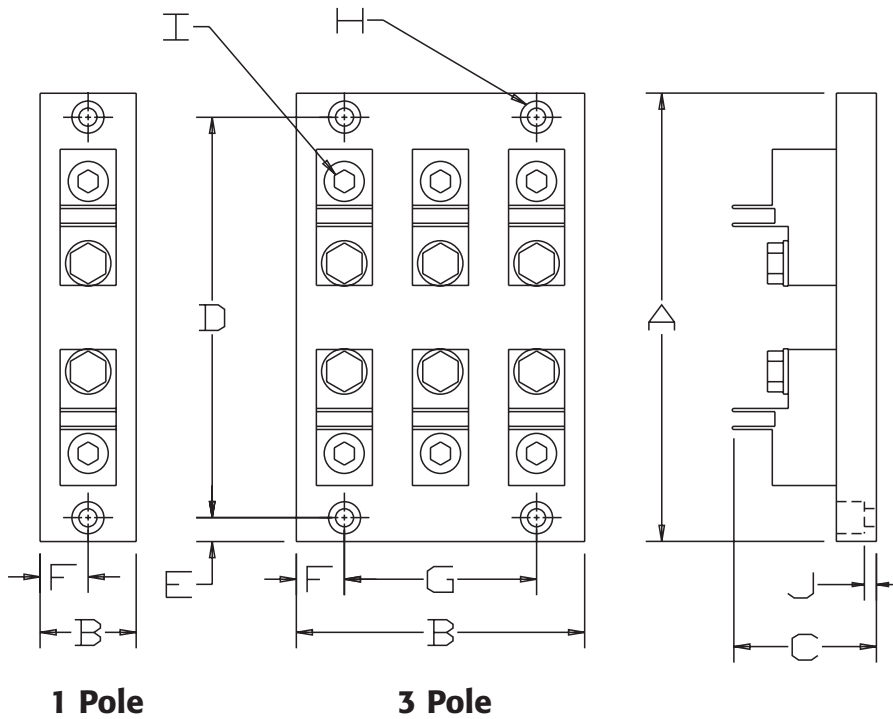


Figure 2:

Class T Dimensions

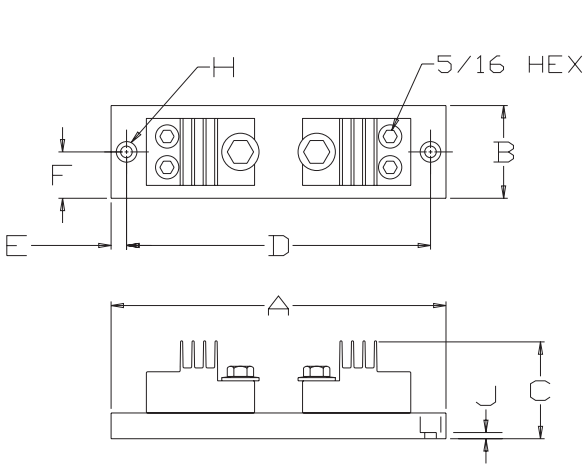


Figure 3:

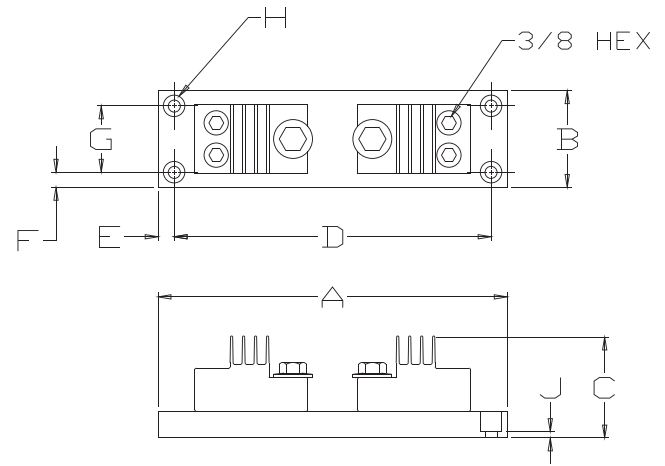
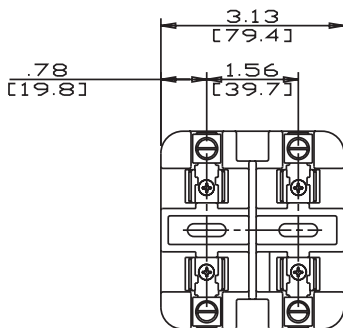
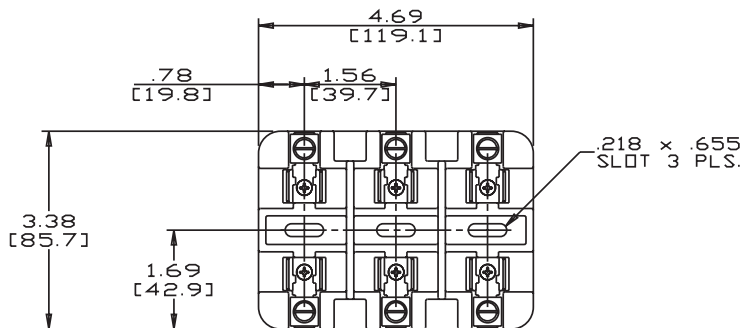


Figure 4:



2 Pole



3 Pole

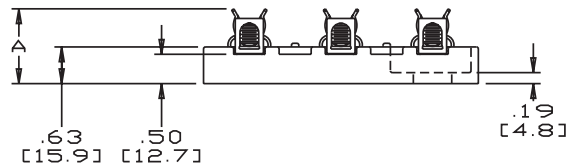


Figure 5:

Class J Fuse Holders - 600 Volt

Specifications:

- Have Been Tested & Approved for 200,000 Amp Interrupting Capacity
- Patented Cool-Clip® Design
- UL Listed File No. E35113
- CSA Certified File No. LR21455
- CE

30 & 60 Amp:

- Clip, Copper Alloy, Tin Plated

30 Amp:

- Integral DIN Rail Mount
- Expander Block

100 Amp:

- Clip, Copper Alloy, Tin Plated

200 Amp:

- Clip, One Piece Aluminum, Tin Plated

400-600 Amp:

- Clip, Copper Alloy, Tin Plated



Catalog #:

Std.	Reinforced	Poles	Amp	Base Materials	Wire Range	Fuse Size	Fuses		
6J30A1S	R6J30A1S	1	30	Thermoplastic	#10-#22 AWG CU	13/16" DIA BY 2 1/4"	A4J AJT JKS JLS JTD JTD_ID LPJ		
6J30A2S	R6J30A2S	2							
6J30A3S	R6J30A3S	3							
6J30AES	R6J30AES	Expander							
6J30A1SP	R6J30A1SP	1			#10-#14 AWG CU				
6J30A2SP	R6J30A2SP	2							
6J30A3SP	R6J30A3SP	3							
6J30AESP	R6J30AESP	Expander							
6J30A1B	R6J30A1B	1			60			#6-#14 AWG CU	1 1/16" DIA BY 2 3/8"
6J30A2B	R6J30A2B	2							
6J30A3B	R6J30A3B	3							
6J30AEB	R6J30AEB	Expander							
6J60A1B	R6J60A1B	1	#2-#14 AWG CU AL						
6J60A2B	R6J60A2B	2							
6J60A3B	R6J60A3B	3							
R6J100A1B	SAME	1	100	Phenolic	#2/0-#14 AWG CU #2/0-#12 AWG AL	1 1/8" DIA BY 4 5/8"			
R6J100A3B		3							
6J200A1B		1	200		250 kcmil - #6 AWG CU AL	1 5/8" DIA BY 5 3/4"			
6J200A3B		3							
6J400A1B		1	400		(2) 350 kcmil - #6 AWG CU AL	2" DIA BY 3 3/8"			
6J400A3B		3							
6J600A1B		1	600		(2) 500 kcmil - #4 AWG CU AL	2 1/2" DIA BY 3 3/4"			
6J600A3B		3							

Contact Factory for Stud Options

M Fuse Holders - 600 Volt

Specifications:

- Have Been Tested & Approved for 100,000 Amp Interrupting Capacity
- Clip, Copper Alloy, Tin Plated
- Quick Connect Standard with Screw (S) or Sems Pressure (SP)
- UL Recognized File No. E35113
- CSA Certified File No. LR21455
- CE



Catalog #:

Std.	Reinforced	Poles	Amp	Base Materials	Wire Range	Fuse Size	Fuses
6M30A1SQ	N/A	1	30	Thermoplastic	#10-#22 AWG CU	13/32" DIA BY 1 1/2"	A13X-2, A25Z-2, A60Q-2, A6Y-2B, AGU, ATM, ATQ, BAF, BAN, BLF, BLN, BLS, FLA, FLM, FLQ, FNM, FNQ, GFN, GGO, KLK, KLKD, KLG, KTK, OTM, TRM
6M30A2SQ		2					
6M30A3SQ		3					
6M30A1SPQ		1			#10-#14 AWG CU		
6M30A2SPQ		2					
6M30A3SPQ		3					
6M30A1B		1			#6-#14 AWG CU		
6M30A2B		2					
6M30A3B		3					
6M30A1BCU		1					
6M30A2BCU		2					
6M30A3BCU		3					

Midget Enclosed Fuse Holders - 600 Volt

Specifications:

- Has Been Tested & Approved for 100,000 Amp Interrupting Capacity
- Touchsafe Design IEC Type IP2
- DIN Rail Mount (35mm)
- Blown Fuse Indication Available
- Handle Allows Quick Easy Fuse Change
- Ventilated Design for Cooler Operation
- UL Recognized File No. E35113
- IEC Type IP2 Protection
- CSA Certified File No. LR21455
- CE



Catalog#	Indicating	Poles	Amp	Base Material	Wire Range	Fuse Size	Fuses
6SM30A1	No	1	30	Thermoplastic	#6 - #14 AWG CU	13/32" DIA BY 1 1/2"	A13X-2, A25Z-2, A60Q-2, A6Y-2B, AGN, ATM, ATQ, BAF, BAN, BLF, BLN, BLS, FLA, FLM, FLQ, FNM, FNQ, GFN, GGO, KLK, KLKD, KLQ, KTK, OTM, TRM
6SM30A2		2					
6SM30A3		3					
6SM30A4		4					
6SM30A1I	Yes	1					
6SM30A2I		2					
6SM30A3I		3					
6SM30A4I		4					

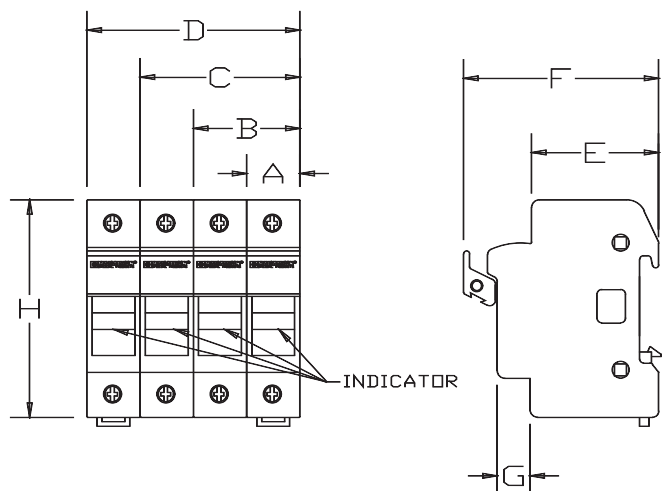
Dimensions	mm	Inches
A	17.8	0.70
B	35.6	1.40
C	53.3	2.10
D	71.1	2.80
E	43.2	1.70
F	61.0	2.40
G	9.9	0.39
H	78.2	3.08

Pin kit (used for ganging multiple poles)

Catalog Description
EFH-MCCK

- includes 10 handle pins and 20 body clips

*use one handle pin and two body clips per pole



Midget Fuse Holder - 600 Volt

30 Amp Sectional Version

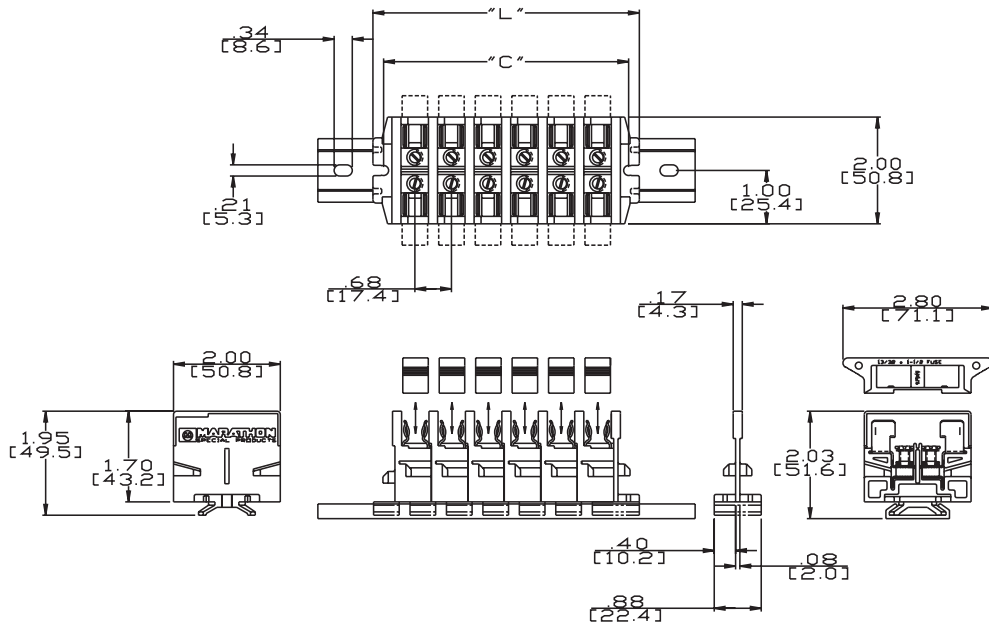
600 Volts



Specifications:

- Have Been Tested & Approved for 10,000 Amp Interrupting Capacity
- Base, White Nylon, 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. E35113
- CSA Certified File No. LR21455
- C E

Catalog#	Description	Std. Pack	Wire Range	Fuse Size	Fuses
6W30A1F	Flat Mount	10	#10-#14 AWG CU Stranded	13/32" DIA BY 1 1/2" LONG	A13X-2, A25Z-2, A60Q-2, A6Y-2B, AGN, ATM, ATQ, BAF, BAN, BLF, BLN, BLS, FLA, FLM, FLQ, FNM, FNQ, GFN, GGO, KLK, KLKD, KLQ, KTK, OTM, TRM
6W30A1C	Channel Mount				
6WE-F	End Piece-Flat				
6WE-C	End Piece-Channel				
MC	Channel Clamp	25			
MPC-6	6 Foot Channel	-			
MPC-3	3 Foot Channel				
GR-2	1/8" Diameter X 2" Long Nylon Rod				



Flat Mount
 $L = 0.88 + (0.68 \times N)$
 $C = 0.48 + (0.68 \times N)$
 N = No. of Poles

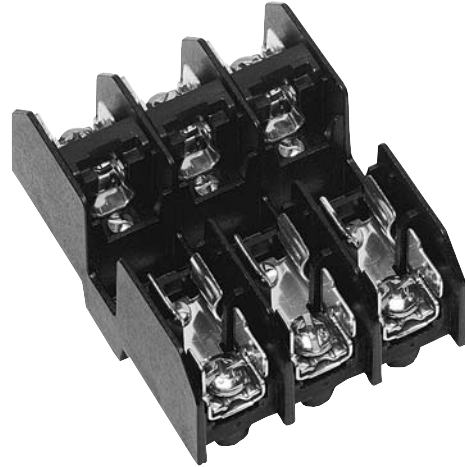
Channel Dimensions
 $LCH = L + 2.25$

CC Fuse Holders - 600 Volt

Specifications:

30 Amp:

- Have Been Tested & Approved for 200,000 Amp Interrupting Capacity
- Clip, Copper Alloy, Tin Plated with Patented Reject Member
- Quick Connect Standard with Screw (S) or Sems Pressure (SP)
- UL Listed File No. E35113
- CSA Certified File No. LR21455
- CE



60 Amp:

- Have Been Tested & Approved for 200,000 Amp Interrupting Capacity
- Patented Cool-Clip® Design
- Clip, Copper Alloy, Tin Plated with Patented Reject Member
- Integral DIN Rail Mount
- Expander Block Available
- UL Listed File No. E35113, Class CD
- CSA Certified File No. LR21455-91
- CE

Catalog #:

Std.	Reinforced	Poles	Amp	Base Materials	Wire Range	Fuse Size	Fuses
6CC30A1SQ	N/A	1	30	Thermoplastic	#10-#22 AWG CU	13/32" DIA BY 1 1/2"	ATDR ATMR ATQR CCMR FRQ-R KLDR KLKR KTK-R LP-CC
6CC30A2SQ		2					
6CC30A3SQ		3					
6CC30A1SPQ		1			#10-#14 AWG CU		
6CC30A2SPQ		2					
6CC30A3SPQ		3					
6CC30A1B		1			#6-#14 AWG CU		
6CC30A2B		2					
6CC30A3B		3					
6CC30A1BCU		1			#2-#14 AWG CU #2-#12 AWG AL		
6CC30A2BCU		2					
6CC30A3BCU		3					
R6CC60A1B	SAME	1	60			0.70" DIA BY 1.85"	
R6CC60A2B		2					
R6CC60A3B		3					
R6CC60AEB		EXPANDER					

Class CC Enclosed Fuse Holders - 600 Volt

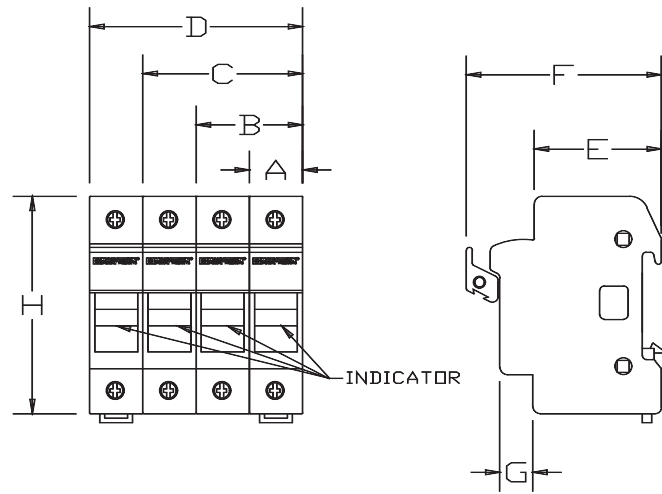
Specifications:

- Has Been Tested & Approved for 200,000 Amp Interrupting Capacity
- Touchsafe Design IEC Type IP2
- DIN Rail Mount (35mm)
- Blown Fuse Indication Available
- Handle Allows Quick Easy Fuse Change
- Ventilated Design for Cooler Operation
- UL Listed File No. E35113
- IEC Type IP2 Protection
- Certified File No. LR21455
- CE



Catalog #	Indicating	Poles	Amp	Base Materials	Wire Range	Fuse Size	Fuses
6SC30A1	NO	1	30	Thermoplastic	#6-#14 AWG CU	13/32" DIA BY 1 1/2"	ATDR
6SC30A2		2					ATMR
6SC30A3		3					ATQR
6SC30A4		4					CCMR
6SC30A1I	YES	1					FRQ-R
6SC30A2I		2					KLDR
6SC30A3I		3					KLKR
6SC30A4I		4					KTK-R, LP-CC

Dimensions	mm	inches
A	17.8	0.70
B	35.6	1.40
C	53.3	2.10
D	71.1	2.80
E	43.2	1.70
F	61.0	2.40
G	9.90	0.39
H	78.2	3.08



Pin kit (used for ganging multiple poles)

Catalog Description
EFH-MCCK

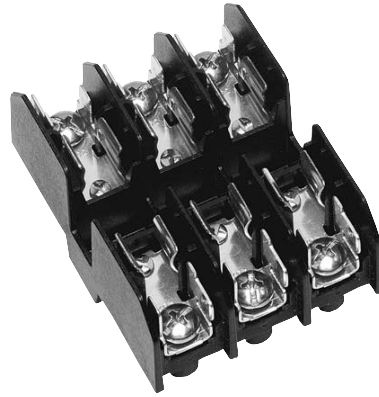
- includes 10 handle pins and 20 body clips

*use one handle pin and two body clips per pole

Class G Fuse Holders

Specifications:

- Have Been Tested & Approved for 100,000 Amp Interrupting Capacity
- Clip, Copper Alloy, Tin Plated with Patented Reject Member
- Quick Connect Standard with Screw (S) or Sems Pressure (SP)
- UL Listed File No. E35113
- CSA Certified File No. LR21455
- CE



1/2 - 15 Amps (600 Volt)

Catalog #: Std.	Reinforced	Poles	Amp	Base Materials	Wire Range	Fuse Size	Fuses
G15A1SQ	RG15A1SQ	1	15	Thermoplastic	#10-#22 AWG CU	13/32" DIA BY 1 5/16"	AG SC SLC
G15A2SQ	RG15A2SQ	2					
G15A3SQ	RG15A3SQ	3					
G15A1SPQ	RG15A1SPQ	1			#10-#14 AWG CU		
G15A2SPQ	RG15A2SPQ	2					
G15A3SPQ	RG15A3SPQ	3					
G15A1B	RG15A1B	1			#6-#14 AWG CU		
G15A2B	RG15A2B	2					
G15A3B	RG15A3B	3					
G15A1BCU	RG15A1BCU	1					
G15A2BCU	RG15A2BCU	2					
G15A3BCU	RG15A3BCU	3					

20 Amps (600 Volt)

Catalog #: Std.	Reinforced	Poles	Amp	Base Materials	Wire Range	Fuse Size	Fuses
G20A1SQ	RG20A1SQ	1	20	Thermoplastic	#10-#22 AWG CU	13/32" DIA BY 1 13/32"	AG SC SLC
G20A2SQ	RG20A2SQ	2					
G20A3SQ	RG20A3SQ	3					
G20A1SPQ	RG20A1SPQ	1			#10-#14 AWG CU		
G20A2SPQ	RG20A2SPQ	2					
G20A3SPQ	RG20A3SPQ	3					
G20A1B	RG20A1B	1			#6-14 AWG CU		
G20A2B	RG20A2B	2					
G20A3B	RG20A3B	3					
G20A1BCU	RG20A1BCU	1					
G20A2BCU	RG20A2BCU	2					
G20A3BCU	RG20A3BCU	3					

25 - 30 Amps (480 Volt)

Catalog #: Std.	Reinforced	Poles	Amp	Base Materials	Wire Range	Fuse Size	Fuses
G30A1SQ	RG30A1SQ	1	30	Thermoplastic	#10-#22 AWG CU	13/32" DIA BY 1 5/8"	AG SLC SC
G30A2SQ	RG30A2SQ	2					
G30A3SQ	RG30A3SQ	3					
G30A1SPQ	RG30A1SPQ	1			#10-#14 AWG CU		
G30A2SPQ	RG30A2SPQ	2					
G30A3SPQ	RG30A3SPQ	3					
G30A1B	RG30A1B	1			#6-#14 AWG CU		
G30A2B	RG30A2B	2					
G30A3B	RG30A3B	3					
G30A1BCU	RG30A1BCU	1					
G30A2BCU	RG30A2BCU	2					
G30A3BCU	RG30A3BCU	3					

Class J, G, M, CC Fuse Holder Dimensions

		Figure	A	B	C	D	E	F	G	H	I	J	K	L	M	EXPANDER
6J30A R6J30A	1 POLE	FIG 1	3.38	1.16	1.95	1.69	1.04	0.30	0.57	.22 X .79 SLOT	N/A	N/A	N/A	N/A	0.24	YES
	2 POLE			2.20												
	3 POLE			3.25												
6J60A R6J60A	1 POLE	SEE FIGURE #3														
	2 POLE															
	3 POLE															
R6J100A	1 POLE	FIG 2	5.06	2.25	2.06	2.53	1.50	0.38	N/A	N/A	N/A	N/A	0.28 THRU 0.53 C'BORE	N/A	N/A	N/A
	3 POLE	FIG 2A	5.13	5.36	2.65	2.56	1.93	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6J200A	1 POLE	FIG 2	6.13	3.00	2.68	3.06	2.00	0.50	N/A	N/A	N/A	N/A	N/A	0.34 THRU 0.75 X .40 C'BORE	0.23	NO
	3 POLE			8.00	N/A	N/A	N/A	2.22	1.69	0.50	7.00	N/A	N/A	N/A	N/A	N/A
6M30A 6CC30A G30A	1 POLE	FIG 1	3.13	0.85	1.29	1.56	0.75	0.24	0.38	.18 X .59 SLOT	N/A	N/A	N/A	N/A	0.09	NO
	2 POLE			1.60												
	3 POLE			2.35												
R6CC60A	1 POLE	FIG 1	3.35	1.11	1.89	1.68	1.01	0.27	0.57	.18 X .74 SLOT	N/A	N/A	N/A	N/A	0.09	YES
	2 POLE			2.12												
	3 POLE			3.12												
6J400A	1 POLE	FIG 4	10.00	3.00	3.31	2.00	4.00	2.00	0.50	N/A	N/A	N/A	0.28 THRU .56 X .44 C'BORE	.19	—	NO
	3 POLE			9.32				6.00	1.66							
6J600A	1 POLE	FIG 5	11.75	4.00	4.38	2.38	4.69	1.75	1.13	N/A	N/A	N/A	.291 THRU .58 X .19 C'BORE	.19	—	NO
	3 POLE			12.00				11.00	1.50							

MM = Dim X 25.4

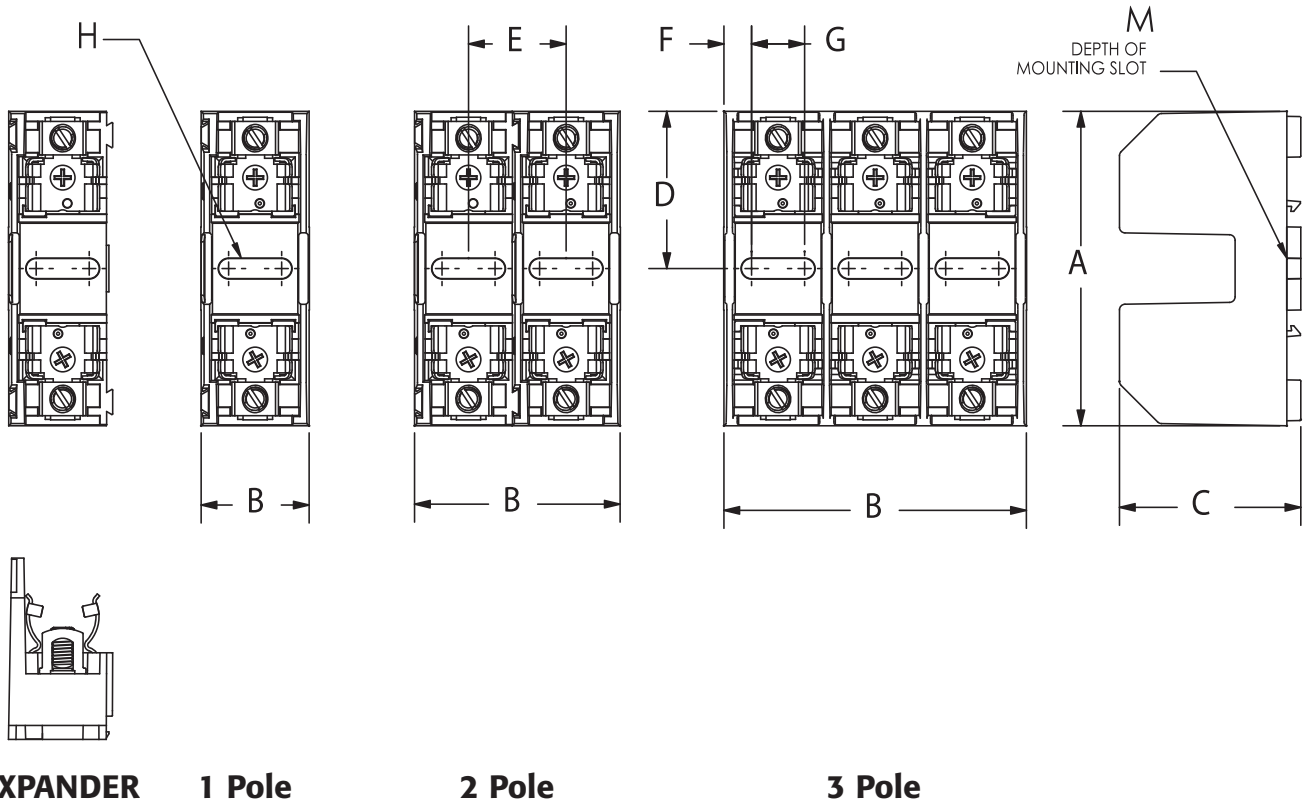
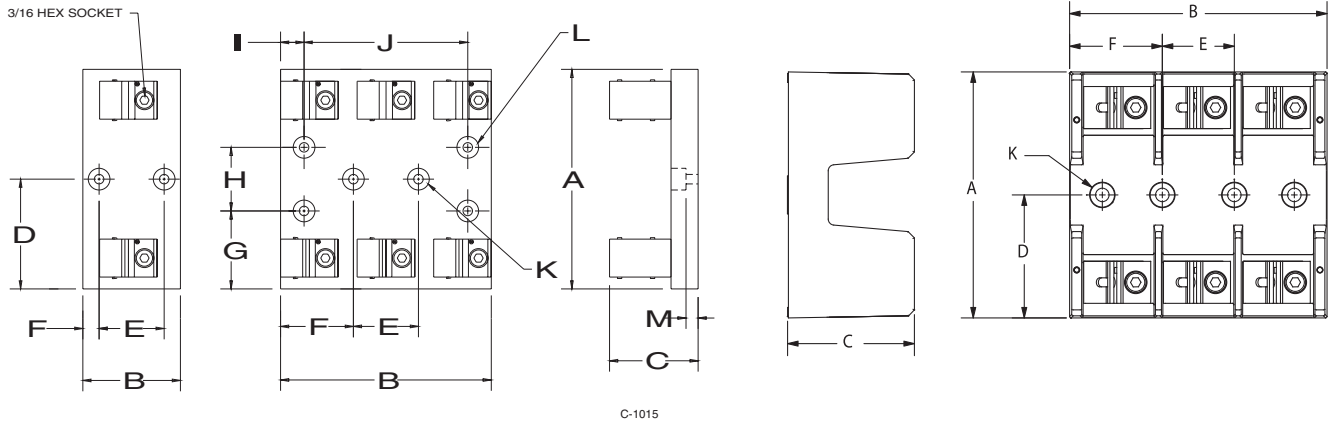


Figure 1:

Class J, G, M, CC Fuse Holder Dimensions

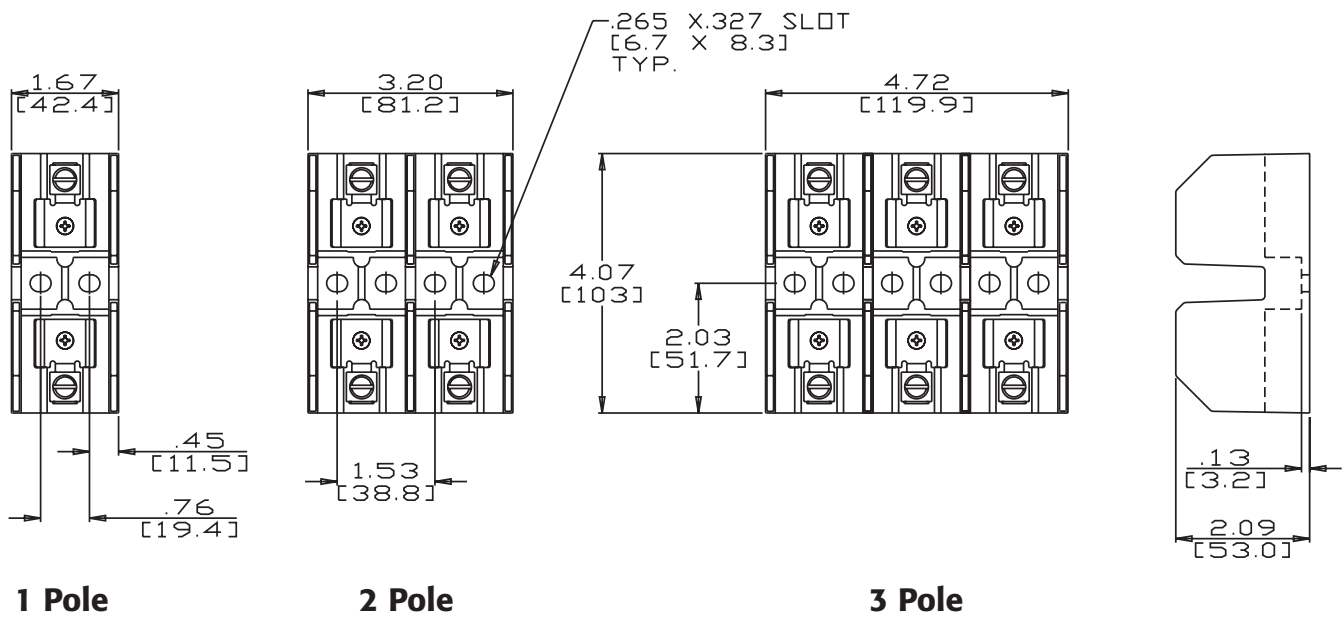


1 Pole

3 Pole

Figure 2:

Figure 2A:



1 Pole

2 Pole

3 Pole

Figure 3:

Class J, G, M, CC Fuse Holder Dimensions

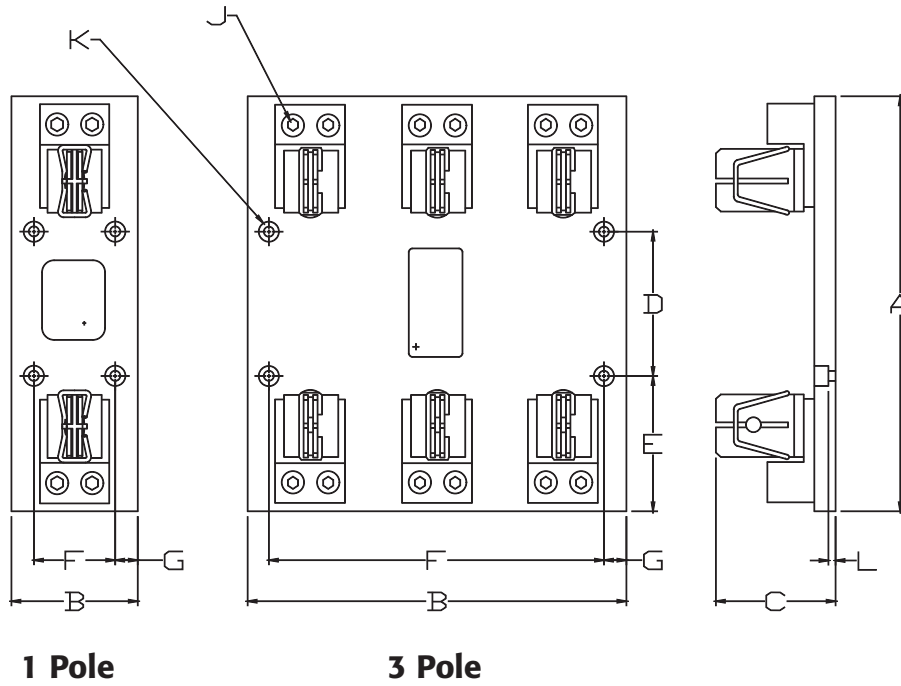


Figure 4:

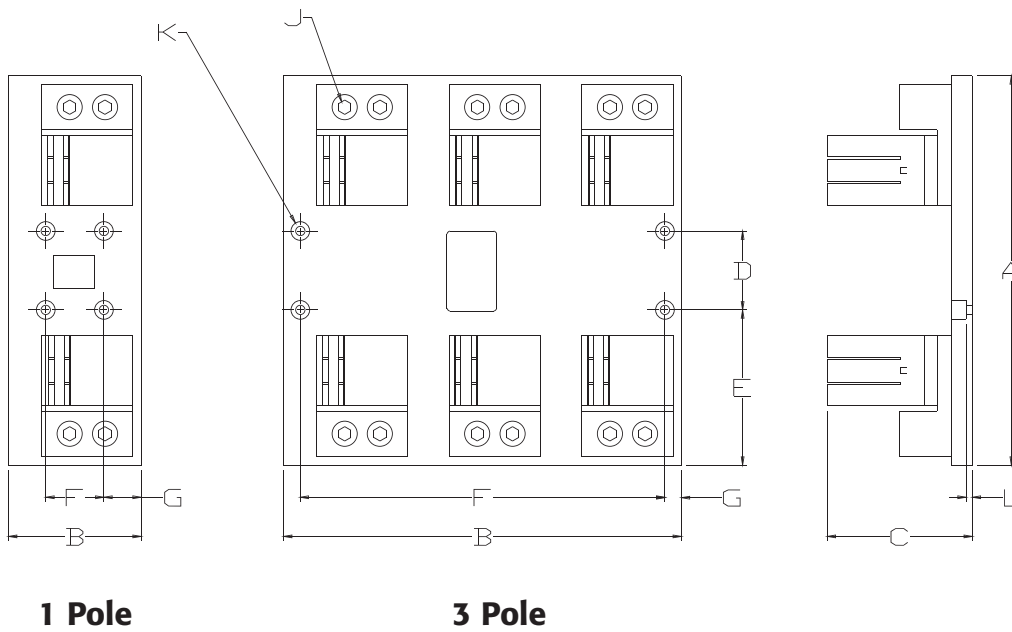


Figure 5:

Semi Conductor Fuse Holder

Box Version - Specifications:

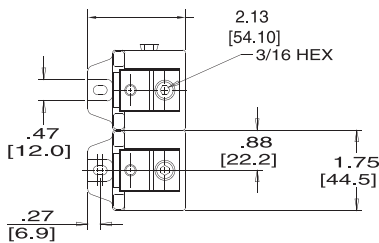
- Insulator Base, General Purpose Phenolic, 150° C
- Hex-Head Bolts and Belleville Washers Provided Unassembled
- Connector-Aluminum, Tin Plated
- 1MS101 has dove-tail interlocking feature
- Two-piece modular design
- UL Recognized File No. E35113



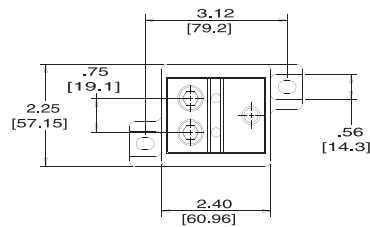
600 Volt

Catalog #:	Maximum Amperage:	Wire Range:
1MS101	100	#2/0 - #14
1MS102	400	(2) 250 kcmil - #6
1MS103	400	(2) 250 kcmil - #6
1MS104	600	(2) 500 kcmil - #6

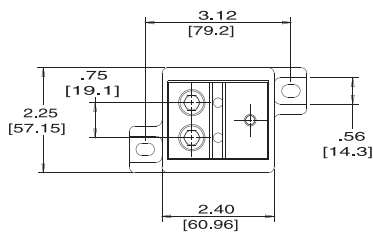
Note: Order two blocks per fuse.



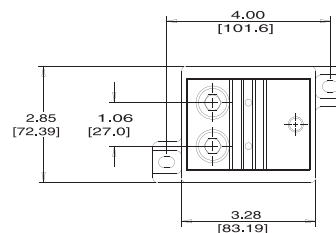
1MS101



1MS103



1MS102



1MS104

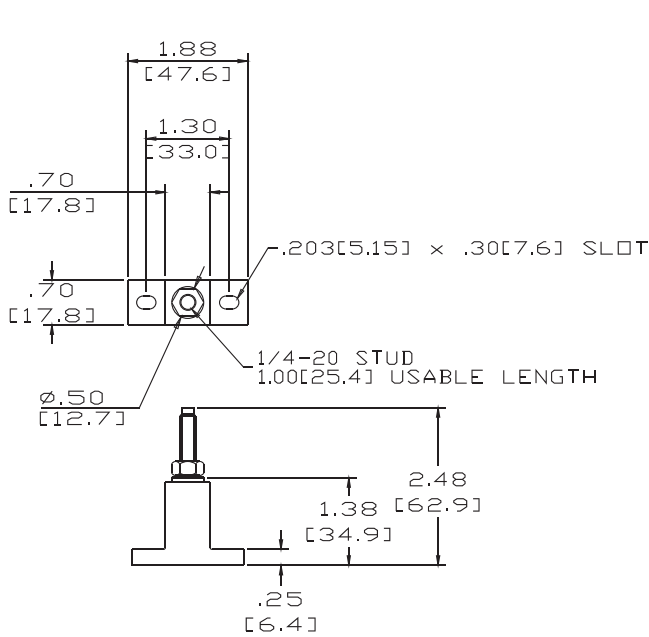
Semi Conductor Fuse Holder - 1,000 Volt

Stud Version - Specifications:

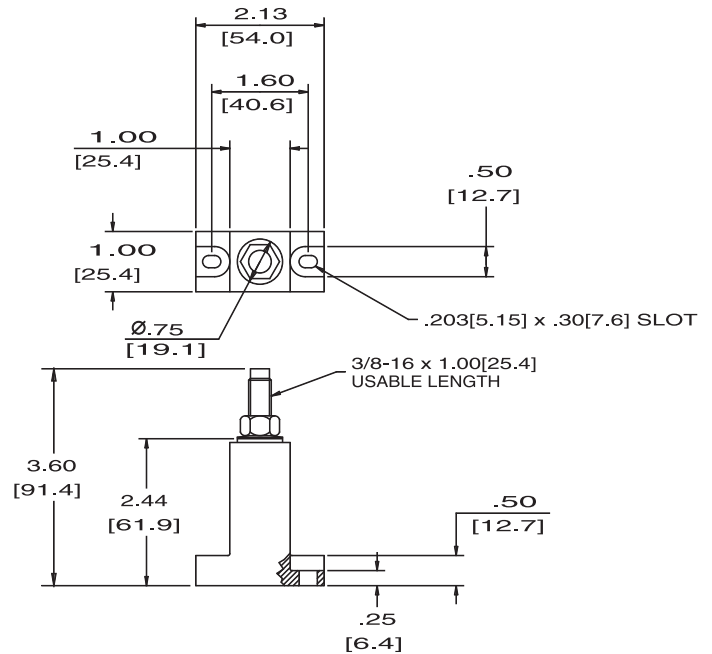
- Base, General Purpose Phenolic, 150° C
- Stud, Steel Zinc Plated
- Nuts and Washers Provided Unassembled
- UL Recognized File No. E35113
- CE



Catalog #:	Maximum Amperage:	Fuse Size:
ST 14	400	1" DIA
ST 38	800	3" DIA



ST14



ST38

Note: Order two blocks per fuse.

Fuse Holders with BD (Box Distribution) Connectors

30 and 60 Amp
250 and 600 Volt



Specifications:

- Available on Class H, R, and J Holders
- Connectors, High Conductive Aluminum, Tin Plated
- Reinforcing Member Available, Standard on Class R
- UL Recognized File No. E35113
- CSA Certified File No. LR21455

Class H Fuse Holders (For Class R Replace F With R in Catalog Number)

Catalog #:	Volts	Amp	Line Wire Range	Load Wire Range
F60AXB	250	60	(1) #2-#10 AWG	(1) #2-#10 AWG
F60AXB-D				(1) #6-#14 AWG
6F30AXB-D	600	30	(1) #6-#14 AWG	(1) #6-#14 AWG (2) #10-#18 AWG
6F60AXB		60	(1) #2-#10 AWG	(1) #2-#10 AWG (1) #6-#14 AWG
6F60AXB-D				(1) #2-#10 AWG (2) #6-#14 AWG

Class J Fuse Holders

Catalog #:	Volts	Amp	Line Wire Range	Load Wire Range
6J60AXB	600	60	(1) #2-#10 AWG	(1) #2-#10 AWG (1) #6-#14 AWG
6J60AXB-D				(1) #2-#10 AWG (2) #6-#14 AWG

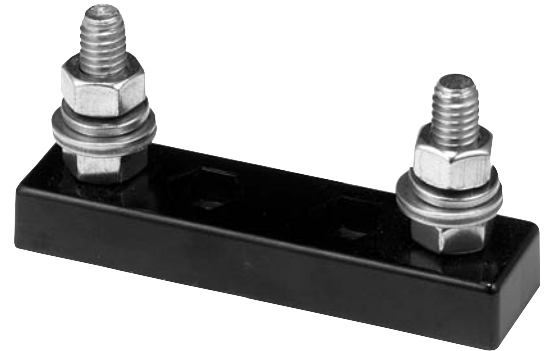
X - Denotes Number of Poles (1, 2, or 3)

* - Class R and J - No Agency

STSF Forklift/Semi Conductor Fuse Holder

Specifications:

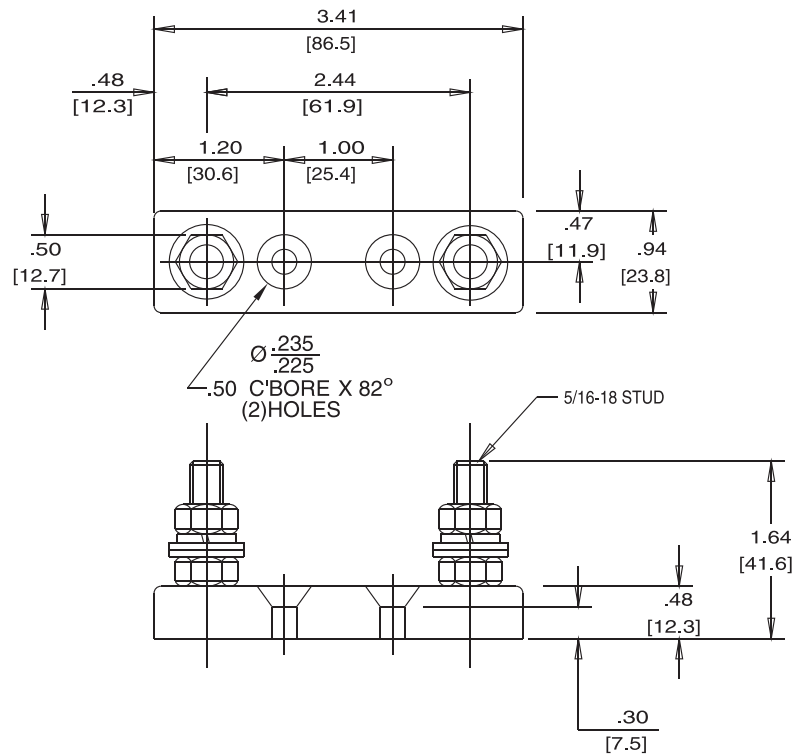
- Base, High Strength Thermoplastic
- Temperature Rating of 170° C
- Studs, Stainless Steel (Nuts and Washers Provided)
- 130V AC/DC, 1 to 400 Amps
- UL Recognized File No. E35113



Applications:

This holder is found in direct current (DC) applications: forklifts, golf carts, custom high-end car stereo systems, heavy equipment, marine aircraft, etc.

STSF:



A #10 flat or conventional pan head screw head is acceptable.

Fuse Holder Covers

Specifications:

- Material, Thermoplastic
- Thermal Rating, 125° C (RT1, per UL 746)
- Flammability, VO (per UL 94)
- UL Listed Accessories Under File No. E181825
- In Application, Protection is Consistent With IEC Standard 529, Designation IP2 (finger safe)*
- Opening Allows View of Self-Indicating Fuses
- Holes for Test Probes and Re-tightening of Wire Terminations
- Covers Fit Most Fuse Holder Brands

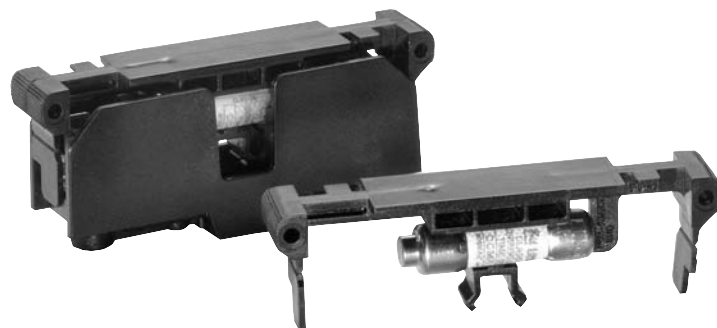
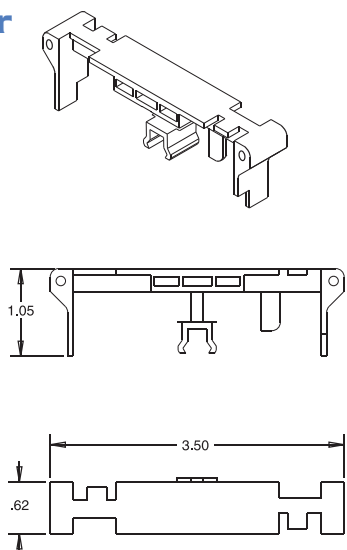


Catalog#:	For Use W/Fuse Holder#:	Fuse Type:	Voltage:	Amp:
CHR230	F30A/R30A	H/R	250	30
CHR260	F60A/R60A	H/R	250	60
CHR2100	RF100A/R100A	H/R	250	100
CHR630	6F30A/6R30A	H/R	600	30
CHR660	6F60A/6R60A	H/R	600	60
CHR6100	R6F100A/6R100A	H/R	600	100
CJ630	6J30A	J	600	30
CJ660	6J60A	J	600	60
CC630	6CC30	CC	600	30
CC660	6CC60	CD	600	60
CCM630**	6M30A/6CCM30A	MISC	600	30

* Applications involving fuse holders other than Marathon may not provide IP2 finger protection.

** Covers are recognized if used with recognized fuses.

Cover/Puller (CVR-MCC)



Marathon's Cover/Puller was designed for use with the Class CC (30A), 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 IP2 (finger safe).

Fuse Holder Covers

Catalog Name	Figure	A	B	C	D	E	F
CHR230	Fig 1	3.76	1.67	0.86	2.54	0.40	0.30
CHR260	Fig 1	5.80	2.16	1.07	3.66	0.47	0.42
CHR2100	Fig 2	7.38	2.41	1.49	4.90	0.38	0.46
CHR630	Fig 1	7.56	1.71	1.10	5.58	0.47	0.42
CHR660	Fig 1	8.30	2.37	1.35	6.32	0.35	0.42
CHR6100	Fig 2	9.34	2.45	1.49	6.90	0.38	0.46
CJ630	Fig 1	4.30	1.95	0.90	2.66	0.35	0.30
CJ660	Fig 1	5.04	2.07	1.35	3.10	0.35	0.42
CC630	Fig 3	3.83	1.69	0.74	2.34	0.34	0.30
CC660	Fig 1	4.58	1.95	0.90	2.66	0.35	0.42
CCM630	Fig 3	3.83	1.69	0.74	2.34	0.34	0.30

MM = Dim X 25.4

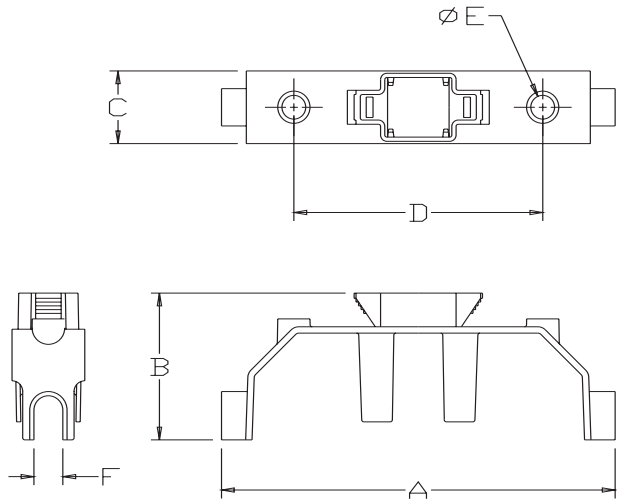


Figure 1:

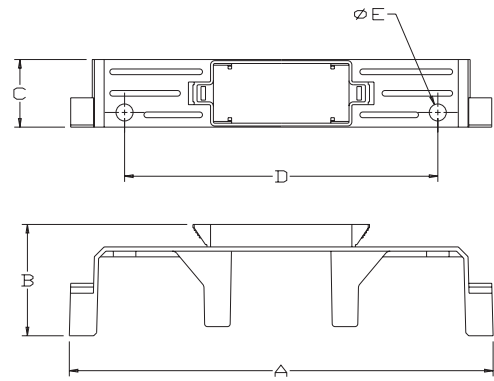


Figure 3:

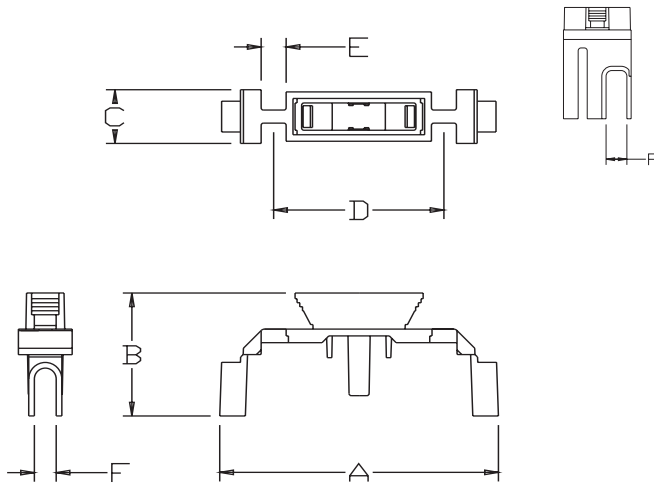


Figure 2:

DIN Rail Adapter

Accessory to Secure Surface Mount Devices on DIN Rail:

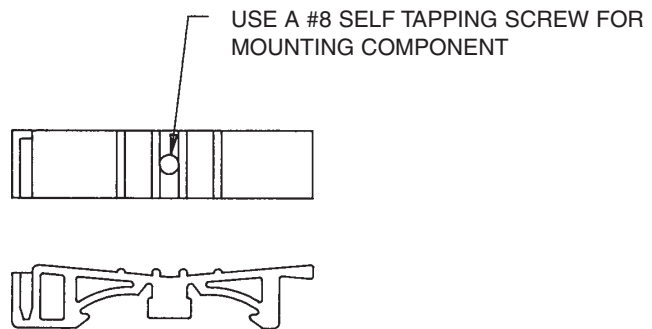
- DIN Adapter is Made of Acetal Resin Material
- High Mechanical Strength and Rigidity
- Good Resilience and Resistance to Creep
- Excellent Dimensional Stability
- Excellent Low Temperature Toughness
- Wide End-Use Temperature Range



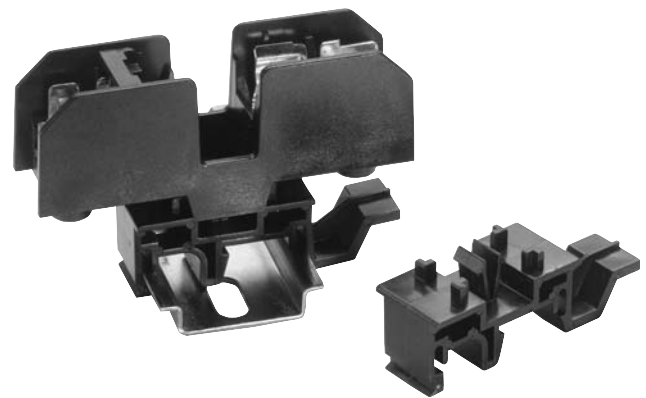
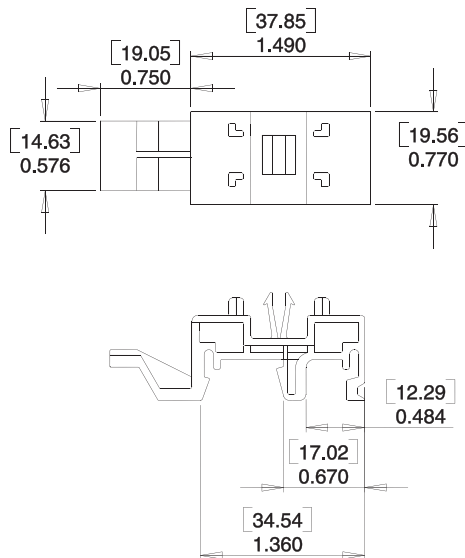
Assembly Method:

- Press Adapter onto Rail, Fasten Component with #8 Self Tapping Screw (Screw Not Supplied)
- Assembly Locks Firmly onto DIN Rail
- The Adapter will Work with 140 Series, M Fuse Holder, Class G, Class CC, Class H 250A 30A, Class R 250V 30A Holders
- Consult Factory for Others

Catalog Number	Standard Package
DIN R-1	10



Class CC, G and Midget Fuse Holder Accessories



DIN Rail Adapter (Catalog# DIN R-2)

This adapter is for use with the Class CC (30A), Midget and Class G fuse holders. The DIN R-2 snaps securely to the Marathon fuse holders and to DIN rails without tools. This permits the holders to mount directly to standard and low profile 35mm symmetrical and 32mm asymmetrical DIN rails. They may be removed from rails by lifting the disconnect tab.

Power Terminal Blocks

General Information:

Power Terminal Blocks are available in eight molding sizes. They are identified by the first three digits of the catalog number. The 140, 142, 143, 144 and 145 series are manufactured with general purpose phenolic rated at 150° C. The 141, 132 and 133 series are manufactured with high impact thermoplastic rated at 125° C.

All Power Terminal Blocks are UL recognized file number E62806 and CSA certified file number LR19766, unless noted.

Connector Wire Hole Size:

Conductor Opening	Diameter of Opening
#10-18	.158"
#4-14	.250"
#2-14	.312"
#2/0-14	.438"
250kcmil-6	.630"
350kcmil-6	.718"
400kcmil-6	.769"
500kcmil-4	.875"
600kcmil-2	.938"

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, service entrance devices.

Class B

Commercial appliances including business equipment, electronic data processing equipment and the like.

Class C

General industrial and machine tool controls which can be further defined as equipment falling under UL 508. Ratings based on UL 1059 may be higher in some cases depending on application.

Spacing Requirements*:

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

*In Inches

Applications:

Designed for use with heating, air conditioning and refrigeration, elevator systems, material handling equipment, control panels, motor control, switchgear, and any area where power needs to be distributed to more than one load.

Power Distribution Blocks

600 Volts





























Specifications:

- Connector, High Conductive Aluminum, Tin Plated
- Amp Rating Based on NEC Table 310-16 Using 75° C Copper Wire
- *Wire Connector Rated 90° C
- UL Recognized File No. E62806
- CSA Certified File No. LR19766
- CE



** Openings rated for #4-14 AWG are multiple wire rated:
(2) #10 CU Str, (2 to 4) #12 CU Str, and (2 to 4) #14 CU Str.

*** Openings rated for #2-14 AWG are multiple wire rated:
(2) #8 CU Str, (2) #10 CU Str, (2) #12 CU Str, And
(2) #14 CU Str

Catalog #	Poles	Amps	Material	Connector Configuration	Line Wire Range	Openings Per Pole	Connector Configuration	Load Wire Range	Openings Per Pole
1411403	1	60	Thermoplastic	* 	#2-#14 AWG	1		#10-#18 AWG	2
1412403	2								
1413403	3								
1414403	4								
1411400	1	115	Thermoplastic	* 	#2-#14 AWG	1		#10-#16 AWG	4
1412400	2								
1413400	3								
1414400	4								
1320570	Adder	175	Thermoplastic	* 	2/0-#14 AWG	1		**	4
1321570	1			#4-#14 AWG					
1322570	2								
1323570	3								
1421570	1	175	Phenolic	* 	2/0-#14 AWG	1		**	4
1422570	2			#4-#14 AWG					
1423570	3								
1320580	Adder	175	Thermoplastic	* 	2/0-#14 AWG	1		**	6
1321580	1			#4-#14 AWG					
1322580	2								
1323580	3								
1402402	2	175	Phenolic	* 	2/0-#14 AWG	1		**	4
1403402	3			#4-#14 AWG					
1402401	2	175	Phenolic		2/0-#14 AWG	1		**	6
1403401	3			#4-#14 AWG					
1402404	2	310	Phenolic		350 kcmil - #6 AWG	1		#4-#14 AWG	6
1403404	3			#4-#14 AWG					
1331554	1	310	Thermoplastic		350 kcmil - #6 AWG	1		#2/0-#14 AWG	2
1332554	2								
1333554	3								
1441401	1	335	Phenolic		400 kcmil - #6 AWG	1		#2-#14 AWG	6
1442401	2								
1443401	3								
1431552	1	335	Phenolic		400 kcmil - #6 AWG	1		#2-#14 AWG	4
1432552	2								
1433552	3								
1431553	1	335	Phenolic		400 kcmil - #6 AWG	1		#2-#14 AWG	6
1432553	2								
1433553	3								
1441560	1	335	Phenolic		400 kcmil - #6 AWG	1		#2-#14 AWG	8
1442560	2								
1443560	3								
1331552	1	335	Thermoplastic		400 kcmil - #6 AWG	1		***	4
1332552	2			#2-#14 AWG					
1333552	3			#2-#14 AWG					

Power Distribution Blocks (Cont.)

600 Volts

Specifications:

- Connector, High Conductive Aluminum, Tin Plated
- Amp Rating Based on NEC Table 310-16 Using 75° C Copper Wire
- *Wire Connector Rated 90° C
- UL Recognized File No. E62806
- CSA Certified File No. LR19766
- CE

** Openings rated for #4-14 AWG are multiple wire rated:
(2) #10 CU Str, (2 to 4) #12 CU Str, and (2 to 4) #14 CU Str.

*** Openings rated for #2-14 AWG are multiple wire rated:
(2) #8 CU Str, (2) #10 CU Str, (2) #12 CU Str, And
(2) #14 CU Str

Catalog #	Poles	Amps	Material	Connector Configuration	Line Wire Range	Openings Per Pole	Connector Configuration	Load Wire Range	Openings Per Pole
1431555	1	350	Phenolic		#2/0-#14 AWG	2		** #4-#14 AWG	6
1432555	2								
1433555	3								
1331555	1	350	Thermoplastic		#2/0-#14 AWG	2		** #4-#14 AWG	6
1332555	2								
1333555	3								
1441551	1	380	Phenolic		500 kcmil - #4 AWG	1		#2-#14 AWG	6
1442551	2								
1443551	3								
1451579	1	380	Phenolic		500 kcmil - #4 AWG	1		#2/0-#14 AWG	6
1452579	2								
1453579	3								
1331587	1	380	Thermoplastic		500 kcmil - #4 AWG	1		***#2-#14 AWG 350 kcmil - #6 AWG	3
1332587	2			1					
1333587	3			1					
1431587	1	380	Phenolic		500 kcmil - #4 AWG	1		***#2-#14 AWG 350 kcmil - #6 AWG	3
1432587	2			1					
1433587	3			1					
1451594	1	380	Phenolic		500 kcmil - #4 AWG	1		#2-#14 AWG	8
1452594	2								
1453594	3								
1451552	1	380	Phenolic		500 kcmil - #4 AWG	1		#2-#14 AWG	12
1452552	2								
1453552	3								
1331588	1	420	Thermoplastic		600 kcmil - #2 AWG	1		*** #2-14 AWG	6
1332588	2			3					
1333588	3			#1/0 - #14 AWG					
1331595	1	420	Thermoplastic		600 kcmil - #2 AWG	1		** #4-#14 AWG	12
1332595	2								
1333595	3								
1331585	1	420	Thermoplastic		600 kcmil - #2 AWG	1		*** #2-#14 AWG	8
1332585	2								
1333585	3								
1331575	1	420	Thermoplastic		600 kcmil - #2 AWG	1		2/0-#14 AWG	4
1332575	2								
1333575	3								
1331565	1	420	Thermoplastic		600 kcmil - #2 AWG	1		250 kcmil - #1/0 AWG	2
1332565	2								
1333565	3								
1331596	1	510	Thermoplastic		250 kcmil - #1/0 AWG	2		** #4-#14 AWG	12
1332596	2								
1333596	3								
1331597	1	510	Thermoplastic		250 kcmil - #1/0 AWG	2		*** #2-#14 AWG	8
1332597	2								
1333597	3								

Power Distribution Blocks (Cont.)




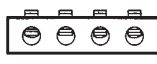



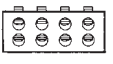



















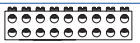
600 Volts

Specifications:

- Connector, High Conductive Aluminum, Tin Plated
- Amp Rating Based on NEC Table 310-16 Using 75° C Copper Wire
- *Wire Connector Rated 90° C
- UL Recognized File No. E62806
- CSA Certified File No. LR19766
- CE

** Openings rated for #4-14 AWG are multiple wire rated:
(2) #10 CU Str, (2 to 4) #12 CU Str, and (2 to 4) #14 CU Str.

*** Openings rated for #2-14 AWG are multiple wire rated:
(2) #8 CU Str, (2) #10 CU Str, (2) #12 CU Str, And
(2) #14 CU Str

Catalog #	Poles	Amps	Material	Connector Configuration	Line Wire Range	Openings Per Pole	Connector Configuration	Load Wire Range	Openings Per Pole	
1331598	1	510	Thermoplastic		250 kcmil - #1/0 AWG	2		2/0 -#14 AWG	4	
1332598	2									
1333598	3									
1451587	1	665	Phenolic		500 kcmil - #4 AWG	1		2/0 -#14 AWG	4	
1452587	2									
1453587	3									
1451592	1	760	Phenolic		500 kcmil - #4 AWG	2		** #4 - #14 AWG	12	
1452592	2									
1453592	3									
1451586	1	760	Phenolic		500 kcmil - #4 AWG	2		2/0 -#14 AWG	8	
1452586	2									
1453586	3									
1451411	1	840	Phenolic		600 kcmil - #2 AWG	2		3/0 - #6 AWG	4	
1452411	2									
1453411	3									
1320970	Adder	175	Thermoplastic	CU 	2/0 - #14 AWG	1		** #4- #14 AWG	4	
1321970										1
1322970										2
1323970										3
1421970	1	175	Phenolic	CU 	2/0 - #14 AWG	1		** #4- #14 AWG	4	
1422970	2									
1423970	3									
1431955	1	350	Phenolic	CU 	2/0 - #14 AWG	2		** #4- #14 AWG	6	
1432955	2									
1433955	3									
1431953	1	380	Phenolic	CU 	500 kcmil - #4 AWG	1		#2-#14 AWG	6	
1432953	2									
1433953	3									
1331955	1	350	Thermoplastic	CU * 	2/0 - #14 AWG	2		** #4 -#14 AWG	6	
1332955	2									
1333955	3									
1331953	1	380	Thermoplastic	CU * 	500 kcmil - #4 AWG	1		*** #2 -#14 AWG	6	
1332953	2									
1333953	3									
1451992	1	760	Phenolic	CU 	500 kcmil - #4 AWG	2		#2 -#14 AWG	12	
1452992	2									
1453992	3									
1451986	1	760	Phenolic	CU 	500 kcmil - #4 AWG	2		2/0-#14 AWG	8	
1452986	2									
1453986	3									
1453401	3	2280	Phenolic		500 kcmil - #4 AWG	6		2/0-#14 AWG	18	























Power Splicer Blocks

600 Volts

Specifications:

- Connector, High Conductive Aluminum, Tin Plated
- CU Connector, High Conductive Copper, Tin Plated
- Amp Rating Based on NEC Table 310-16 Using 75° and 90° C Copper Wire
- *Wire Connector Rated 90° C
- UL Recognized File No. E62806
- CSA Certified File No. LR19766
- CE











Catalog #	Poles	Amps	Material	Connector Configuration	Line Wire Range	Openings Per Pole	Connector Configuration	Load Wire Range	Openings Per Pole
1411300	1	115	Thermoplastic	*	#2 - #14 AWG	1		#2 - #14 AWG	1
1412300	2								
1413300	3								
1414300	4								
1421552	1	115	Phenolic	*	#2 - #14 AWG	1		#2 - #14 AWG	1
1422552	2								
1423552	3								
1320572	Adder	175	Thermoplastic	*	#2/0 - #14 AWG	1		#2/0 - #14 AWG	1
1321572	1								
1322572	2								
1323572	3								
1421572	1	175	Phenolic	*	#2/0 - #14 AWG	1		#2/0 - #14 AWG	1
1422572	2								
1423572	3								
1402801	2	255	Phenolic		250 kcmil - #6 AWG	1		250 kcmil - #6 AWG	1
1403801	3								
1431123	1	255	Phenolic		250 kcmil - #6 AWG	1		250 kcmil - #6 AWG	1
1432123	2								
1433123	3								
1402303	2	310	Phenolic		350 kcmil - #6 AWG	1		350 kcmil - #6 AWG	1
1403303	3								
1431126	1	310	Phenolic		350 kcmil - #6 AWG	1		350 kcmil - #6 AWG	1
1432126	2								
1433126	3								
1331126	1	310	Thermoplastic		350 kcmil - #6 AWG	1		350 kcmil - #6 AWG	1
1332126	2								
1333126	3								
1331305	1	350	Thermoplastic	*	#2/0 - #14 AWG	2		#2/0 - #14 AWG	2
1332305	2								
1333305	3								
1441557	1	420	Phenolic		600 kcmil - #4 AWG	1		600 kcmil - #4 AWG	1
1442557	2								
1443557	3								
1331360	1	420	Thermoplastic		600 kcmil - #2 AWG	1		600 kcmil - #2 AWG	1
1332360	2								
1333360	3								
1331320	1	510	Thermoplastic	*	250 kcmil - #1/0 AWG	2		250 kcmil - #1/0 AWG	2
1332320	2								
1333320	3								
1451129	1	620	Phenolic		350 kcmil - #4 AWG	2		350 kcmil - #4 AWG	2
1452129	2								
1453129	3								

Power Splicer Blocks (Cont.)

600 Volts

Specifications:

- Connector, High Conductive Aluminum, Tin Plated
- CU Connector, High Conductive Copper, Tin Plated
- Amp Rating Based on NEC Table 310-16 Using 75° and 90° C Copper Wire
- *Wire Connector Rated 90° C
- UL Recognized File No. E62806
- CSA Certified File No. LR19766
- CE

Catalog #	Poles	Amps	Material	Connector Configuration	Line Wire Range	Openings Per Pole	Connector Configuration	Load Wire Range	Openings Per Pole
1451301	1	760	Phenolic		500 kcmil - #4 AWG	2		500 kcmil - #4 AWG	2
1452301	2								
1453301	3								
1320972	Adder	175	Thermoplastic	CU * 	#2/0 -#14 AWG	1		#2/0 -#14 AWG	1
1321972	1								
1322972	2								
1323972	3								
1421121	1	175	Phenolic	CU * 	#1/0 -#14 AWG	1		#1/0 -#14 AWG	1
1422121	2								
1423121	3								
1431124	1	255	Phenolic	CU * 	250 kcmil - #6 AWG	1		250 kcmil - #6 AWG	1
1432124	2								
1433124	3								

600 Volts

Specifications:

- Connector, High Conductive Copper, Tin Plated
- Stud, Brass, Tin Plated, Metric (M) Studs, Steel
- Amp Rating Based on NEC Table 310-16 Using 75° Copper Wire
- UL Recognized File No. E62806
- CSA Certified File No. LR19766
- CE



Catalog#	Poles	Amps	Material	Connector Configuration	Line Wire Range	Openings Per Pole	Connector Configuration	Load Wire Range	Openings Per Pole
1320122	Adder	200	Thermoplastic		1/4-20 X 9/16	1		1/4-20 X 9/16	1
1321122	1								
1322122	2								
1323122	3								
1320422	Adder	200	Thermoplastic		M6 x 15	1		M6 x 15	1
1321422	1								
1322422	2								
1323422	3								
1421123	1	200	Phenolic		1/4-20 Screw	1		1/4-20 Screw	1
1422123	2								
1423123	3								
1421122	1	200	Phenolic		1/4-20 X 9/16	1		1/4-20 X 9/16	1
1422122	2								
1423122	3								
1431563	1	230	Phenolic		3/8-16 X1 3/16	1		3/8-16 X1 3/16	1
1432563	2								
1433563	3								
1431561	1	230	Phenolic		3/8-16 X1 3/16	1		1/4-20 X1 3/16	1
1432561	2								
1433561	3								
1441122	1	260	Phenolic		3/8-16 X1 7/16	1		1/4-20 X 9/16	2
1442122	2								
1443122	3								
1441553	1	230	Phenolic		3/8-16 X1 7/16	1		3/8-16 X1 7/16	1
1442553	2								
1443553	3								
1451573	1	360	Phenolic		3/8 - 16 X1 7/16	1		3/8 - 16 X1 7/16	2
1452573	2								
1453573	3								
1451583	1	360	Phenolic		3/8-16 X1 7/16	1		1/4 - 20 X1 7/16	2
1452583	2								
1453583	3								
1331563	1	310	Thermoplastic		3/8-16 X 1 3/16	1		3/8-16 X 1 3/16	1
1332563	2								
1333563	3								
1331564	1	310	Thermoplastic		M10 x 30	1		M10 x 30	1
1332564	2								
1333564	3								
1451606	1	410	Phenolic		1/2-13 x 1 7/16	1		1/2-13 x 1 7/16	1
1452606	2								
1453606	3								
1441614	1	840	Phenolic		3/8-16 X 1	1		3/8-16 X 1	1
1442614	2								
1443614	3								



















Power/Splicer Stud Blocks

600 Volts

Specifications:

- Connector, High Conductive Aluminum, Tin Plated
- Stud, Brass, Tin Plated
- Quick Connect, Brass, Tin Plated
- 10-32 Screw, Brass, Nickel Plated
- Amp Rating Based on NEC Table 310-16 Using 75° C Copper Wire
- *Wire Connector Rated 90° C
- UL Recognized File No. E62806
- CSA Certified File No. LR19766
- C€ (does not apply to 143X559)



Catalog#	Poles	Amps	Material	Connector Configuration	Line Wire Range	Openings Per Pole	Connector Configuration	Load Wire Range	Openings Per Pole
1411200	1	115	Thermoplastic		#2-#14AWG	1		10-32 Screw	1
1412200	2								
1413200	3								
1414200	4								
1411201	1	115	Thermoplastic		#2-#14AWG	1		10-32 Tapped Hole	1
1412201	2								
1413201	3								
1414201	4								
1411202	1	115	Thermoplastic		#2-#14AWG	1		.25X.032 Qk Cnct	4
1412202	2								
1413202	3								
1414202	4								
1411203	1	115	Thermoplastic		#2-#14AWG	1		10-32 X .60 Stud	1
1412203	2								
1413203	3								
1414203	4								
1411205	1	115	Thermoplastic		#2-#14AWG	1		#10-32 Hole & (2) QC	1
1412205	2								
1413205	3								
1414205	4								
1411301	1	115	Thermoplastic		#2-#14AWG	1		#2-#14AWG & (1) QC	1
1412301	2								
1413301	3								
1414301	4								
1431559	1	310	Phenolic		350kcmil-#6AWG	1		3/8-16 X 11/8 Stud	1
1432559	2								
1433559	3								
1421411	1	175	Phenolic	* 	2/0-#14AWG	1		M6 Hole	1
1422411	2								
1423411	3								
1421553	1	175	Phenolic	* 	2/0-#14AWG	1		1/4-20 Tapped Hole	1
1422553	2								
1423553	3								

Power Splicer/Stud Blocks

600 Volts


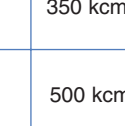

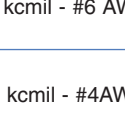

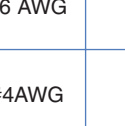

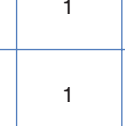

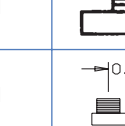

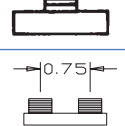

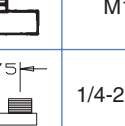

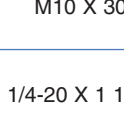

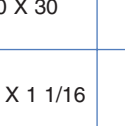



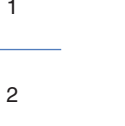
Specifications:

- Connector, High Conductive Aluminum, Tin Plated
- Stud, Brass, Tin Plated, Metric (M) Studs, Steel
- Amp Rating Based on NEC Table 310-16 Using 75° C, Copper Wire
- *Wire Connector Rated 90° C
- UL Recognized File No. E62806
- CSA Certified File No. LR19766
- C E (does not apply to 133X559 and 133X558)

** Openings rated for #4-14 AWG are multiple wire rated:
(2) #10 CU Str, (2 to 4) #12 CU Str, and (2 to 4) #14 CU Str.

*** Openings rated for #2-14 AWG are multiple wire rated:
(2) #8 CU Str, (2) #10 CU Str, (2) #12 CU Str, And
(2) #14 CU Str



Catalog#	Poles	Amps	Material	Connector Configuration	Line Wire Range	Openings Per Pole	Connector Configuration	Load Wire Range	Openings Per Pole
1320574	Adder	175	Thermoplastic	* 	#2/0 - #14 AWG	1		1/4-20 X 1/2	1
1321574	1								
1322574	2								
1323574	3								
1320474	Adder	175	Thermoplastic	* 	#2/0 - #14 AWG	1		M6 x 13	1
1321474	1								
1322474	2								
1323474	3								
1421574	1	175	Phenolic	* 	#2/0 - #14 AWG	1		1/4-20 X 1/2	1
1422574	2								
1423574	3								
1431590	1	175	Phenolic	* 	#2/0 - #14 AWG	1		1/4-20 X 1 3/8	1
1432590	2								
1433590	3								
1331559	1	310	Thermoplastic		350 kcmil - #6 AWG	1		3/8-16 X 1 1/4	1
1332559	2								
1333559	3								
1331558	1	310	Thermoplastic		350 kcmil - #6 AWG	1		M10 X 30	1
1332558	2								
1333558	3								
1441569	1	380	Phenolic		500 kcmil - #4AWG	1		1/4-20 X 1 1/16	2
1442569	2								
1443569	3								
1441575	1	380	Phenolic		500 kcmil - #4AWG	1		3/8-16 X 1 5/16	1
1442575	2								
1443575	3								
1451596	1	545	Phenolic		1000 kcmil - 500 kcmil	1		3/8-16 X 1 3/16	2
1452596	2								
1453596	3								
1451599	1	760	Phenolic		500 kcmil - #4AWG	2		3/8-16 X 1 5/16	2
1452599	2								
1453599	3								
1451610	1	760	Phenolic		500 kcmil - #4AWG	2		1/2-13 X 1 5/16	1
1452610	2								
1453610	3								

Power Stud to Distribution Blocks






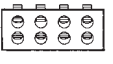






Specifications:

- Connector, High Conductive Aluminum, Tin Plated
- Stud, Brass, Tin Plated, Metric (M) Studs, Steel
- Amp Rating Based on NEC Table 310-16 Using 75° C, Copper Wire
- *Wire Connector Rated 90° C
- UL Recognized File No. E62806
- CSA Certified File No. LR19766
- C E

** Openings rated for #4-14 AWG are multiple wire rated:
(2) #10 CU Str, (2 to 4) #12 CU Str, and (2 to 4) #14 CU Str.

*** Openings rated for #2-14 AWG are multiple wire rated:
(2) #8 CU Str, (2) #10 CU Str, (2) #12 CU Str, And
(2) #14 CU Str

Stud to Distribution Blocks

Catalog#	Poles	Amps	Material	Connector Configuration	Line Wire Range	Openings Per Pole	Connector Configuration	Load Wire Range	Openings Per Pole
1331272	1	510	Thermoplastic		3/8-16 x 1 3/16"	1		** #4 - #14 AWG	12
1332272	2								
1333272	3								
1331273	1	510	Thermoplastic		M10 x 30	1		** #4 - #14 AWG	12
1332273	2								
1333273	3								
1331280	1	510	Thermoplastic		3/8-16 x 1 3/16"	1		*** #2 - #14 AWG	8
1332280	2								
1333280	3								
1331281	1	510	Thermoplastic		M10 x 30	1		*** #2 - #14 AWG	8
1332281	2								
1333281	3								
1331270	1	510	Thermoplastic		3/8-16 x 1 3/16"	1		#2/0 - #14 AWG	4
1332270	2								
1333270	3								
1331271	1	510	Thermoplastic		M10 x 30	1		#2/0 - #14 AWG	4
1332271	2								
1333271	3								

New EPB Series Enclosed Power Block

Specifications:

Electrical

- 600 Volts (UL 1059 Group B and C)
- Up to 580 Amps
- Wire Range #2/0 to 400 kcmil
- 690 Volts (IEC)

*Multiple Wire Ratings:

- **#2 opening:**
 - (2) #6 AWG
 - (2) #8 AWG
 - (2 to 4) #10 AWG
 - (2 to 4) #12 AWG
 - (2 to 4) #14 AWG
- **#2/0 opening:**
 - (2) #4 AWG
 - (2) #6 AWG
 - (2) #8 AWG
 - (2) #10 AWG
 - (2) #12 AWG
 - (2) #14 AWG









Mechanical

- Base, Gray Thermoplastic, 125° C (UL RTI)
- Flammability, UL 94 V-0
- Mounting: DIN mount option (panel mount also)
- UL File No. E62806
- CSA File No. LR19766
- CE (Component IEC 60947-7-1)



Connector Wire Hole Size

Conductor Opening	Diameter of Opening
#2 – #14 AWG	.38"
#2/0 – #14 AWG	.50"
250 kcmil – #6 AWG	.72"
400 kcmil – #6 AWG	.94"

Catalog #	Poles	Amperage CU Wire		Connector Configuration	Wire Range	Openings Per Pole	Connector Configuration	Wire Range	Openings Per Pole
		75°C	90°C						
EPBXD411	1	175	195		2/0 - #14 AWG 70 - 2.5 mm ²	1		2/0 - #14 AWG 70 - 2.5 mm ²	1
EPBXD441	1	175	195		2/0 - #14 AWG 70 - 2.5 mm ²	1		#2 - #14 AWG 35 - 2.5 mm ²	4
EPBXD711	1	510	580		250 kcmil - #6 AWG 120 - 16 mm ²	2		250 kcmil - #6 AWG 120 - 16 mm ²	2
EPBXD741	1	335	380		400 kcmil - #6 AWG 185 - 16 mm ² 2/0 - #14 AWG 70 - 2.5 mm ²	1 1		#2 - #14 AWG 35 - 2.5 mm ²	8

Note: 1) The ampacities are based on Table 310-16 of the NEC and reflect the 90°C column.
2) The connectors were tested and approved at 90°C per UL 486 A/B.

Catalog Description:

EPB

A

A – Aluminum
C – Copper

D

D – DIN Mount
and Panel Mount

41

41 – (1) #2/0 to (1) #2/0
44 – (1) #2/0 to (4) #2
71 – (2) #250 to (2) #250
74 – (1) #400 & (1) #2/0 to (8) #2

1

Poles

Power Block Covers

Specifications:

- Material .06 Clear Protective Plastic
- Two Thread Cutting Screws Furnished Per Cover
- Covers Are Slotted For Easy Installation
- Covers Are Available For The 140, 141, 142, 143, 144, 145

132 and 133 Series Power Blocks:

- Snap On, Hinged Cover, Thermoplastic, 125° C

Dimensions (IN):

Catalog #	A	B	Figure #
CC1402	2.75	2.25	1
CC1403	4.00	2.25	1
CC1411	.77	2.40	2
CC1412	1.42	2.40	
CC1413	2.05	2.40	
CC1414	2.68	2.40	
CC1421	1.06	2.75	1
CC1422	1.87	2.75	
CC1423	2.68	2.75	
CC1431	1.78	3.38	1
CC1432	3.31	3.38	
CC1433	4.84	3.38	
CC1441	2.12	4.00	1
CC1442	4.00	4.00	
CC1443	5.87	4.00	
CC1451	2.87	4.50	1
CC1452	5.56	4.50	
CC1453	8.28	4.50	
CH1321			3
CH1322	-	-	
CH1323			
CH1331			3
CH1332	-	-	
CH1333			

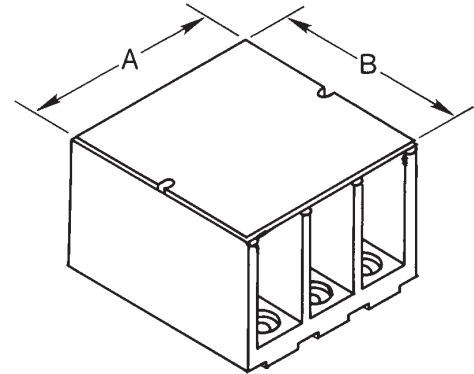


Figure 1

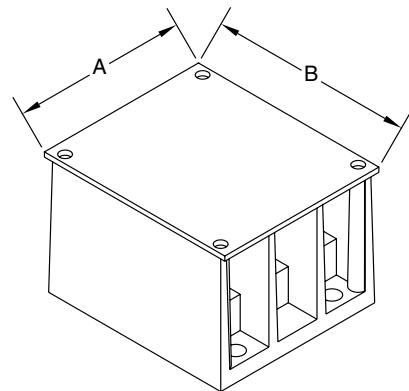


Figure 2

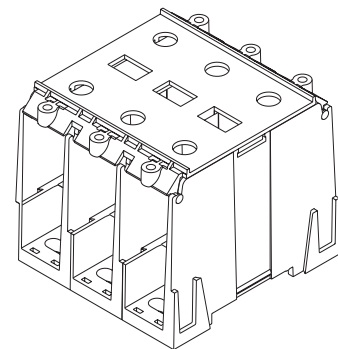
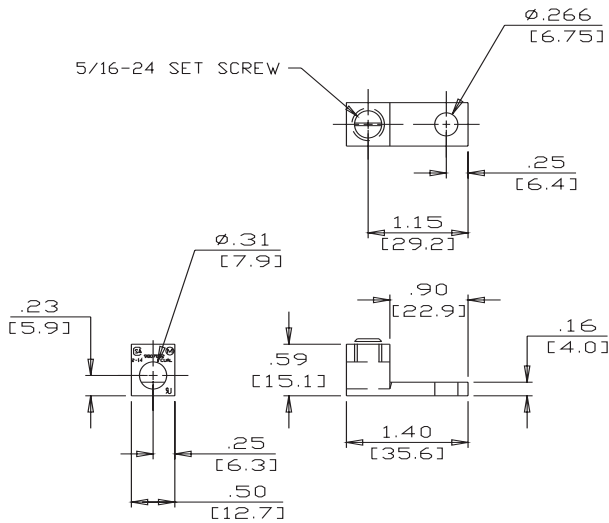


Figure 3
(Hinged Cover)

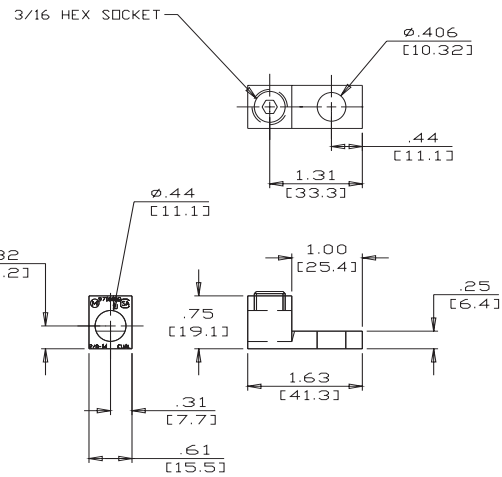
Specifications:

- Connector, High Conductive Aluminum, Tin Plated
- Per Code – Screw Is Green
- UL Recognized File No. E43665
- CSA Certified File No. 63510-25

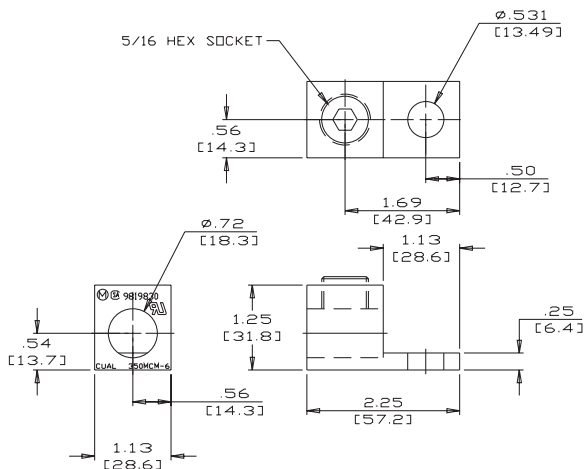
Catalog # (Connector Wire Range)



GL02 (#2-#14 AWG)



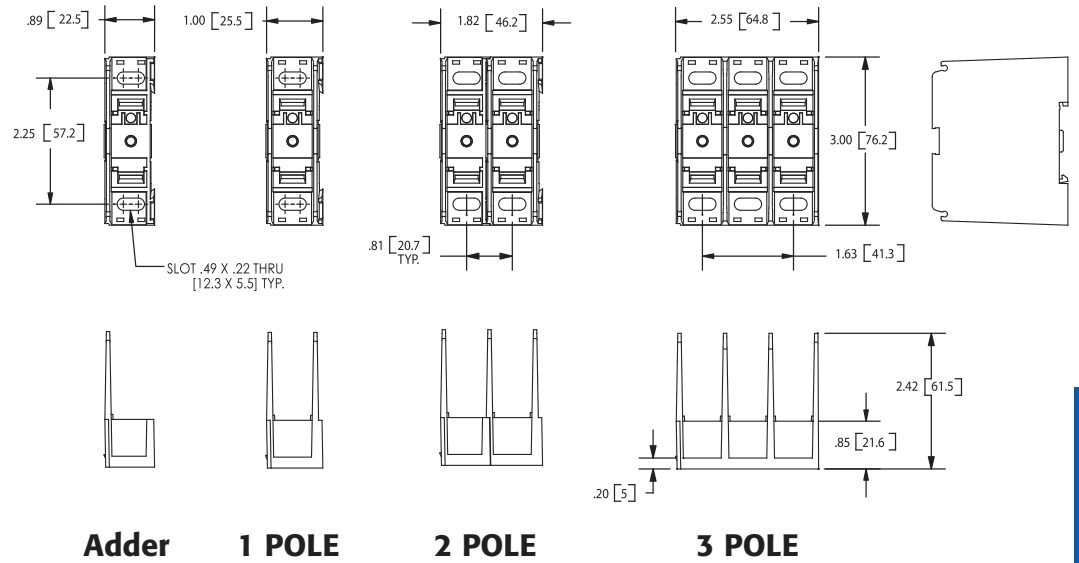
GL20 (#2/0-#14 AWG)



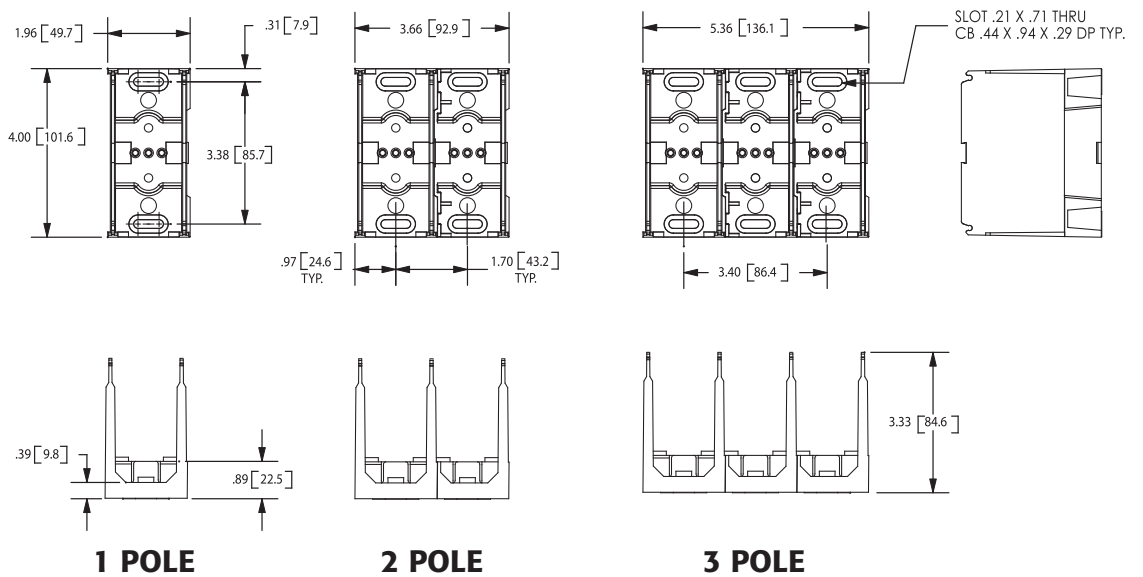
GL35 (350MCM-#6 AWG)

Power Terminal Blocks Dimensions

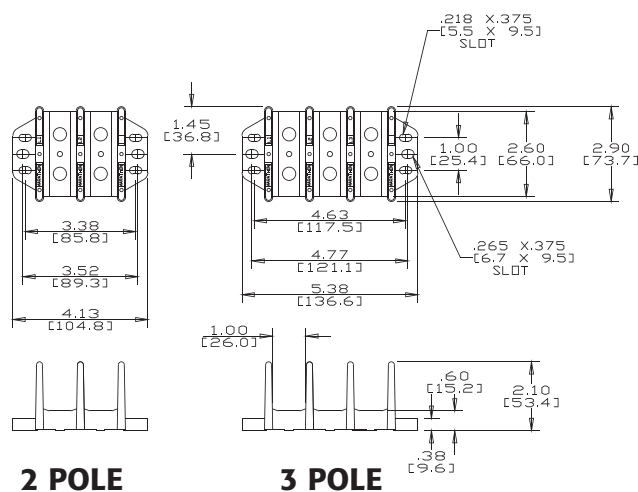
132 Series



133 Series

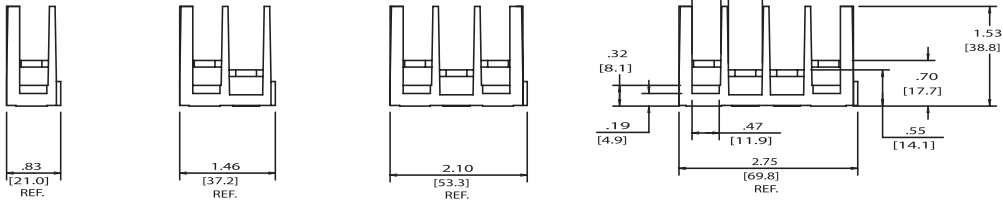
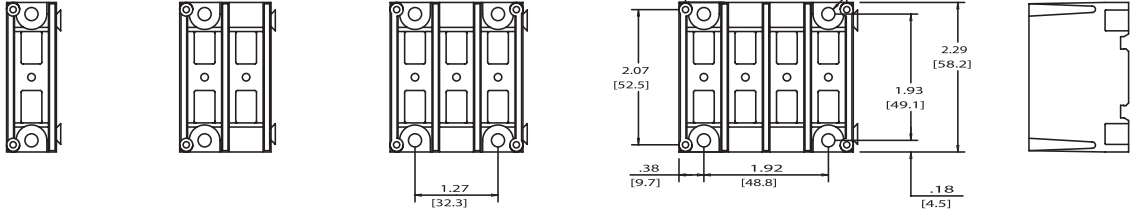


140 Series



Power Terminal Blocks Dimensions

141 Series



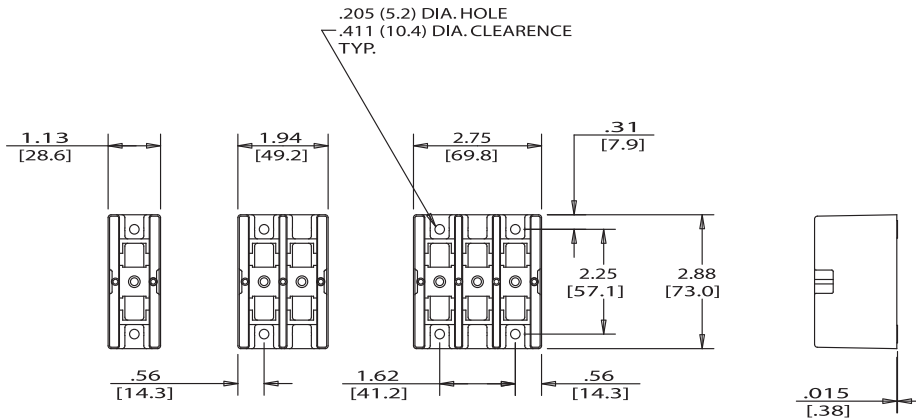
1 POLE

2 POLE

3 POLE

4 POLE

142 Series



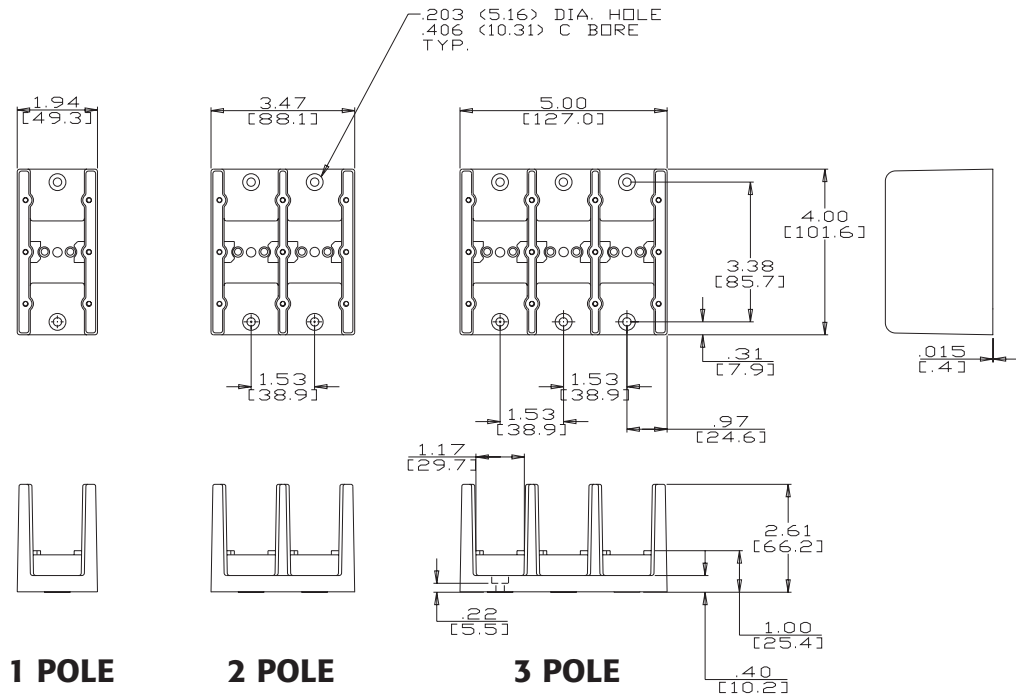
1 POLE

2 POLE

3 POLE

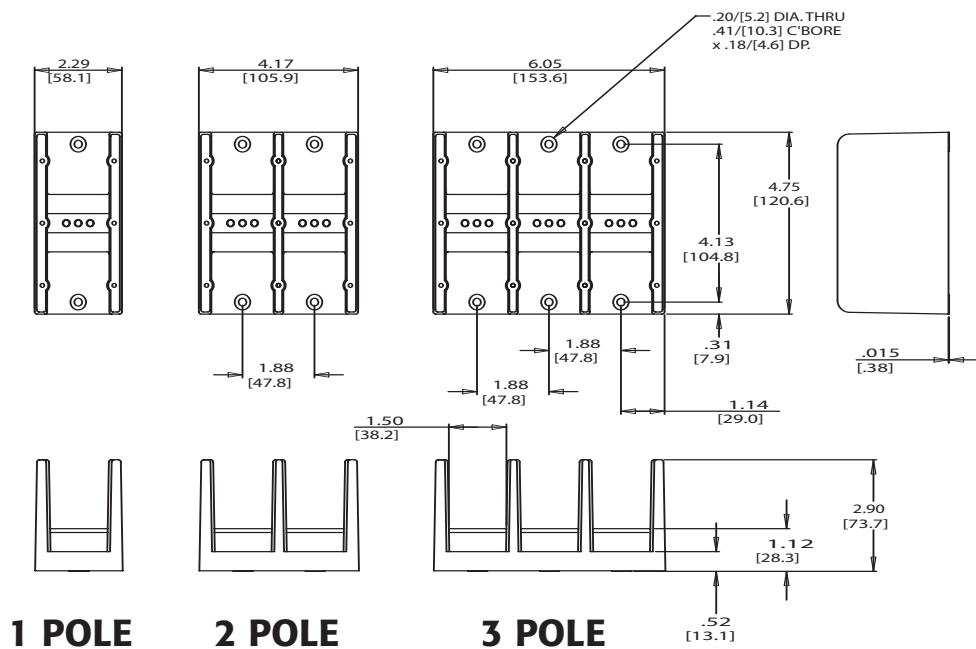
Power Terminal Blocks Dimensions

143 Series



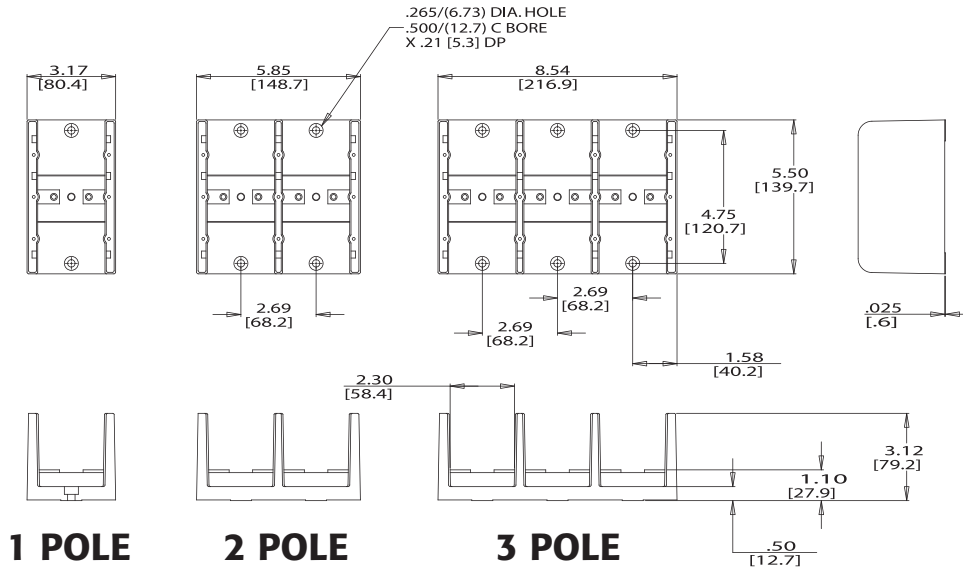
Power Blocks

144 Series



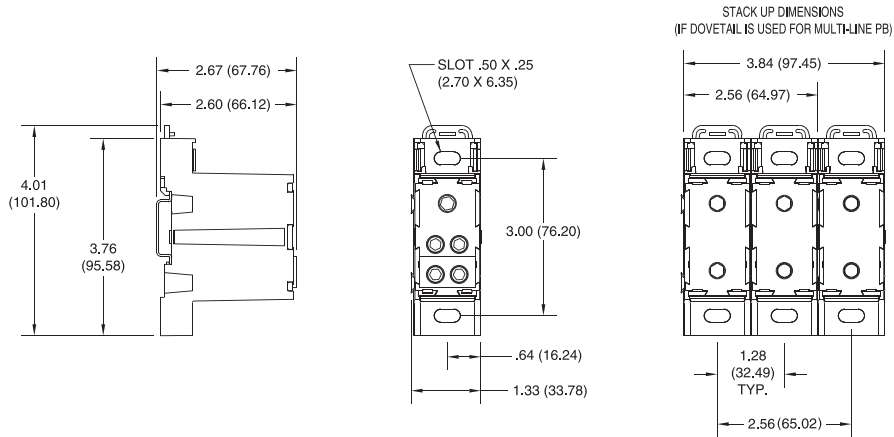
Power Terminal Blocks Dimensions

145 Series

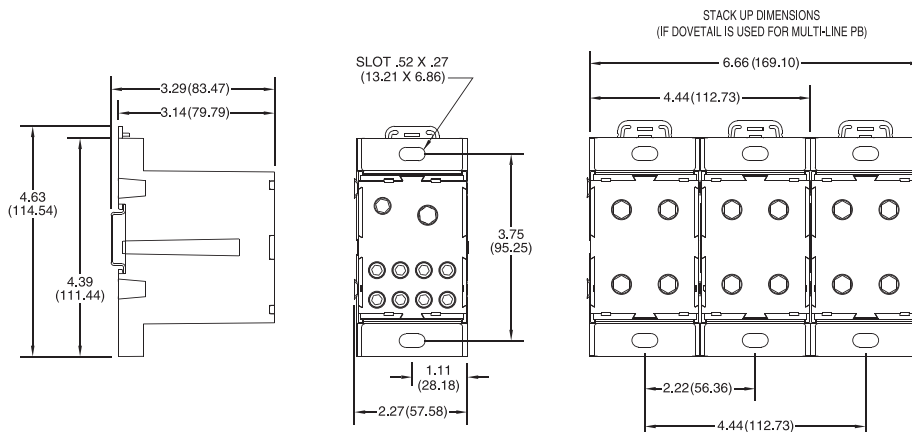


Power Blocks

EPBXD41 & EPBXD44



EPBXD71 & EPBXD74



Heavy Duty Terminal Blocks

General Information:

Heavy Duty Terminal Blocks are available in two styles – Deadfront Type (1100, 1200, 985 and 0987 series) and Barrier Type (1500, 1600 series and 1700 series [Thermoplastic]).

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, service entrance devices.

Class B

Commercial appliances including business equipment, electronic data processing equipment and the like.

Class C

General industrial and machine tool controls which can be further defined as equipment falling under UL 508. Ratings based on UL 1059 may be higher in some cases depending on application.

Spacing Requirements*:

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

*In Inches

Applications:

Designed for electrical termination of wire with or without the use of a wire terminal. These rugged terminal blocks are widely used in such industries as traffic control, utilities, switchgear and other utility related equipment.

Heavy Duty Terminal Blocks

1100 Series - Deadfront Type

600 Volts



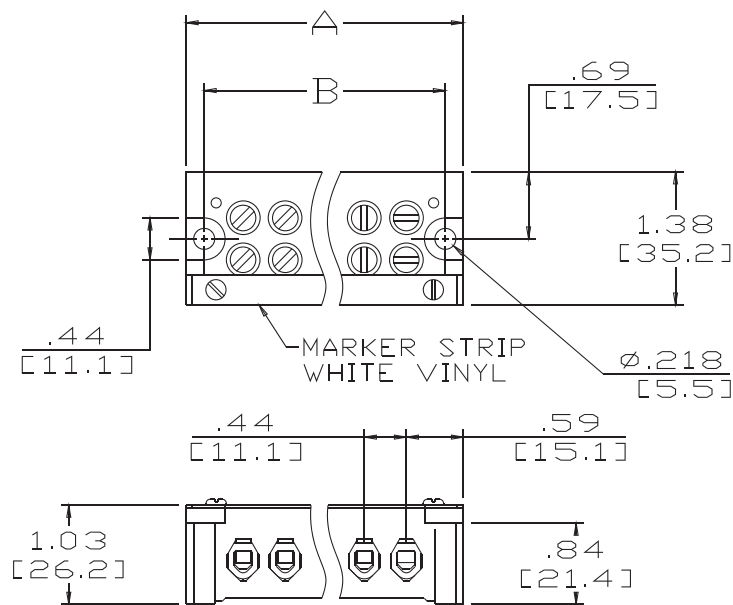
Specifications:

- Base, General Purpose Phenolic, 150° C
- Connector, Aluminum Tin Plated
- Spring, Copper, Use 11XXS
- Screws, Brass, Tin Plated
- Wire Range #6-#18 AWG CU – 65 Amps
- Wire Range With Spring #6-#14 AWG CU – 65 Amps
- UL Recognized File No. #E62806
- CSA Certified File No. LR19766
- $\text{C}\epsilon$ - Wire Range Reduced #8-#18 AWG CU

Catalog#	Catalog#	# of Poles	A	B
1102	1102S	2	1.69	1.31
1104	1104S	4	2.50	2.12
1106	1106S	6	3.38	3.00
1107	1107S	7	3.88	3.50
1108	1108S	8	4.25	3.88
1112	1112S	12	6.00	5.62

S=Copper Pressure Spring

MM = Dim X 25.4



Heavy Duty Terminal Blocks

1103P and 1200 Series - Deadfront Type

600 Volts

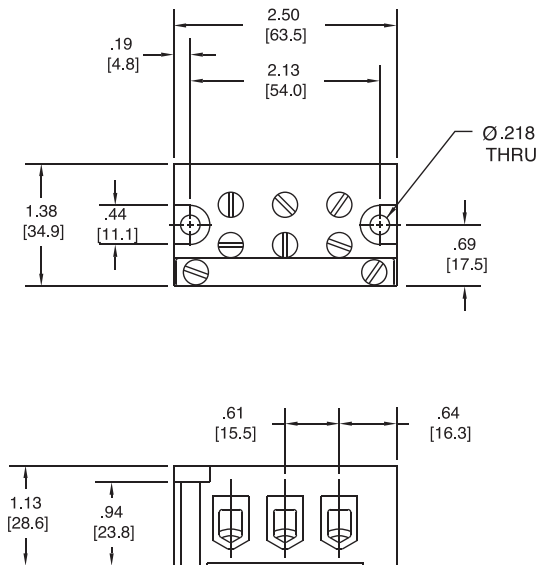
Specifications:

- Base, General Purpose Phenolic, 150° C
- Connector, Aluminum, Tin Plated
- Screws, Steel, Tin Plated
- 1103 P Wire Range #4-#14 AWG CU – 70 Amps
- 1200 Wire Range #4-#18 AWG CU – 70 Amps
- UL Recognized File No. #E62806
- CSA Certified File No. LR19766
- CE - Wire Range Reduced 1103 P #6-#18 AWG CU
1200 #6-#14 AWG CU

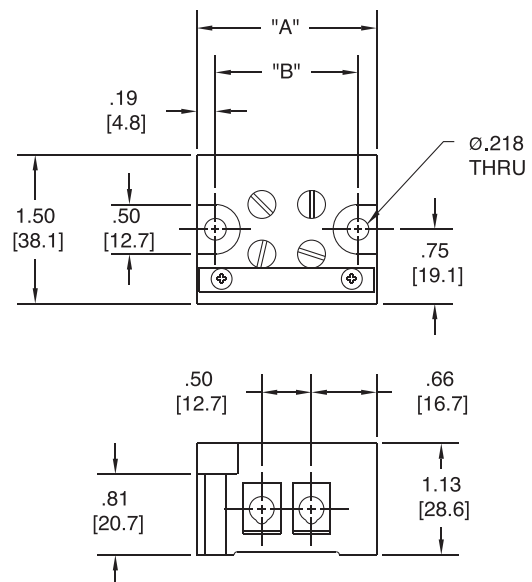


Catalog#	# of Poles	A	B
1202	2	1.81	1.44
1204	4	2.81	2.44
1206	6	3.81	3.44

MM = Dim X 25.4



1103P Series



1200 Series

Heavy Duty Terminal Blocks

Heavy Duty Terminal Blocks

0987 RZ Series - Deadfront Type

600 Volts

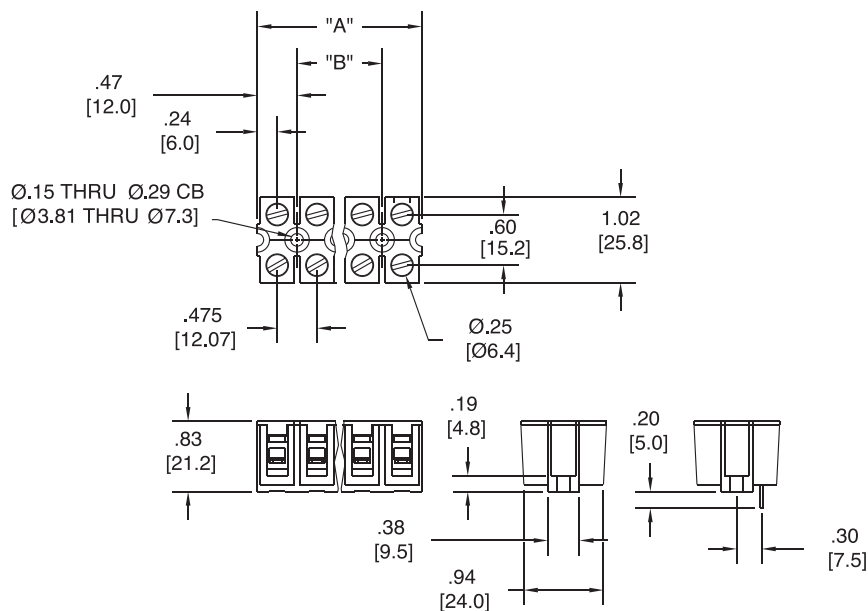


Specifications:

- Base, Thermoplastic, 105° C
- Connector, Copper Alloy, Nickel Plated (TC Tubular Clamp)
- Printed Circuit Contact, Copper Alloy Electro Tin Plated (PC)
- Wire Range #8-#24 AWG – 50 Amps
- Contact Factory For Multiple Wire Combinations
- .475 Centerline Spacing
- UL Recognized File No. #E47811
- CSA Certified File No. LR19766
- C€ - Wire Range Reduced #10-#24 AWG

Catalog #	# of poles	Dimensions	
		A	B
0987 RZ TC 02	2	0.95	N/A
0987 RZ TC 03	3	1.43	0.48
0987 RZ TC 04	4	1.90	0.95
0987 RZ TC 05	5	2.38	1.43
0987 RZ TC 06	6	2.85	1.90
0987 RZ TC 07	7	3.33	2.38
0987 RZ TC 08	8	3.80	2.85
0987 RZ TC 09	9	4.28	3.33
0987 RZ TC 10	10	4.75	3.80
0987 RZ TC 11	11	5.23	4.28
0987 RZ TC 12	12	5.70	4.75

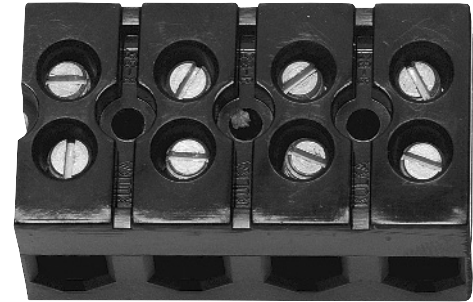
- For PC version substitute PC for TC in catalog number
- DIN Adaptor is available for 0987 Series



Heavy Duty Terminal Blocks

985 GP Series - Deadfront Type

600 Volts

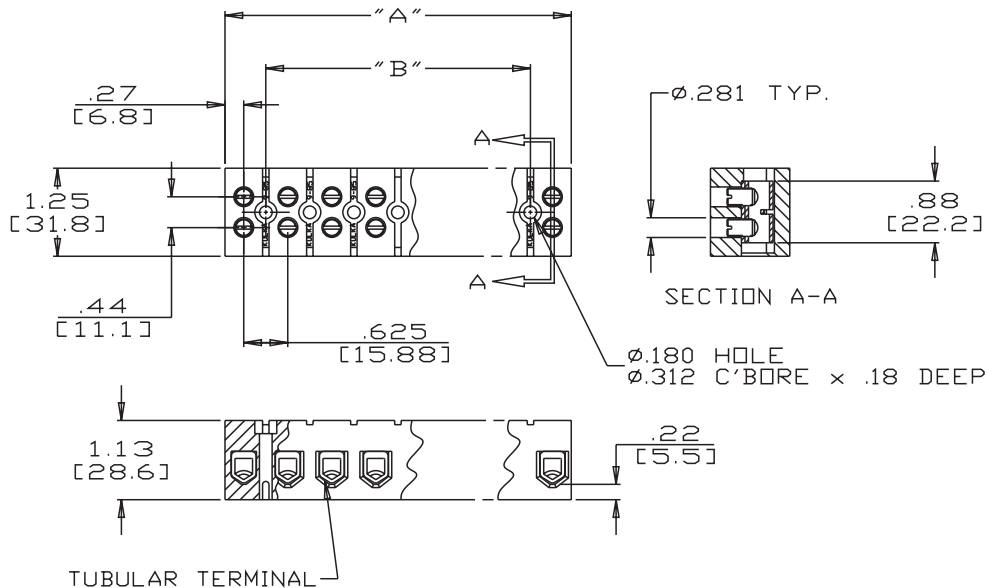


Specifications:

- Base, General Purpose Phenolic, 150° C
- Connector, Aluminum, Tin Plated
- Screws, Steel, Nickel Plated
- Wire Range #4-#18 AWG Copper Wire – 85 Amps
- Multiple Wire Combinations For Solid Or Stranded Copper Wire Are:
 - 1 #18 AWG to 1 #4 AWG
 - 2 #8 AWG
 - 2 to 4 #10 AWG
 - 2 to 4 #12 AWG
 - 2 to 6 #14 AWG
 - 2 to 6 #16 AWG
 - 2 to 8 #18 AWG
- .625 Center-Line Spacing
- UL Recognized File No. E47811
- CSA Certified File No. LR19766
- **CE** - Wire Range Reduced #6-#18 AWG

Catalog #	# of poles	Dimensions	
		A	B
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



Heavy Duty Terminal Blocks

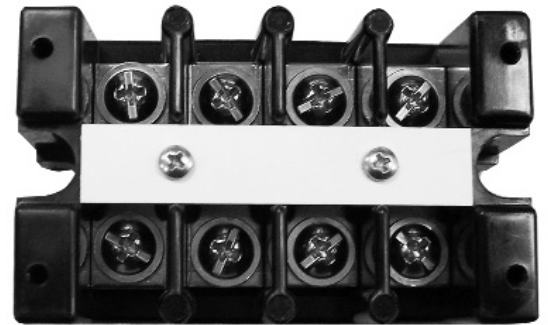
Heavy Duty Terminal Blocks

1500 Series

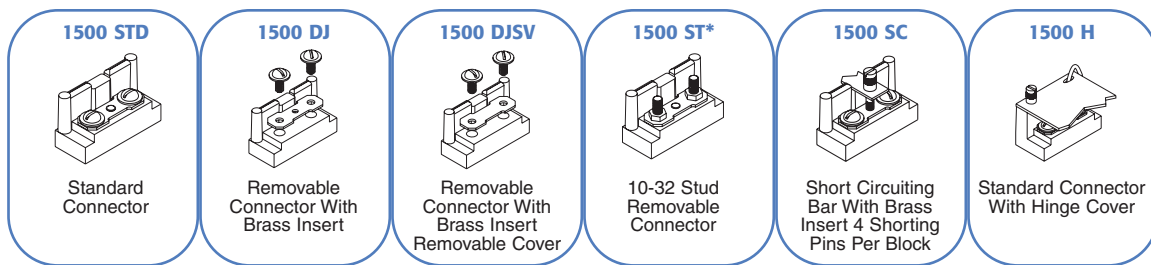
600 Volts

Specifications:

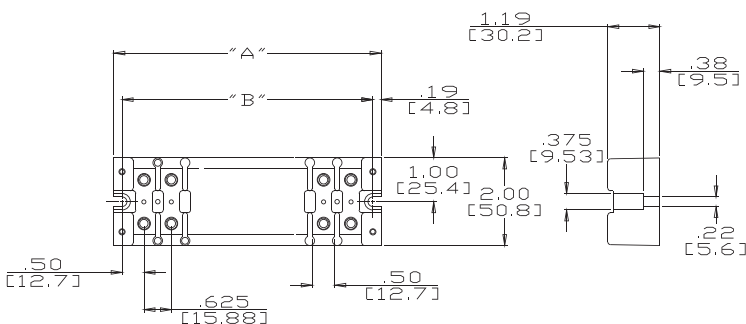
- Base, General Purpose Phenolic, 150° C
- Connector, Brass, Nickel Plated
- Screws, Brass, Nickel Plated, 10-32
- Rated 30 Amps with unprepared wire, #10-16 AWG Copper
- Rated 75 Amps with properly terminated wire
- 5/8" Line To Line Spacing
- UL Recognized File No. #E62806
- CSA Certified File No. LR19766
- CE



Catalog #:	# of Poles	Catalog #:	# of Poles
1504 STD	4	1504 ST	4
1506 STD	6	1506 ST	6
1508 STD	8	1508 ST	8
1512 STD	12	1512 ST	12
1504 DJ	4	1504 SC	4
1506 DJ	6	1506 SC	6
1508 DJ	8	1508 SC	8
1512 DJ	12	1512 SC	12
1504 DJSV	4	1504 H	4
1506 DJSV	6	1506 H	6
1508 DJSV	8	1508 H	8
1512 DJSV	12	1512 H	12



* STCR: 10-32 Stud with Riveted Connector
MCJ-Jumper Available



Catalog #:	# of Poles	A	B
1504	4	3.25	2.88
1506	6	4.50	4.12
1508	8	5.75	5.38
1512	12	8.25	7.88

MM = Dim X 25.4

Heavy Duty Terminal Blocks

1600 Series

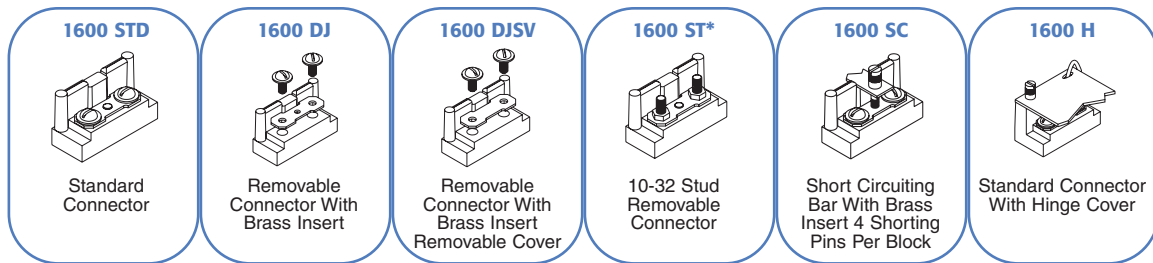
600 Volts

Specifications:

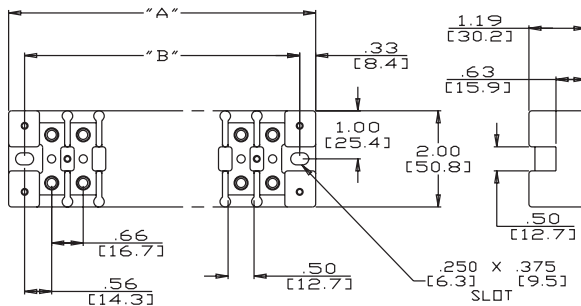
- Base, General Purpose Phenolic, 150° C
- Connector, Brass, Nickel Plated
- Screws, Brass, Nickel Plated, 10-32
- Rated 30 Amps with unprepared wire, #10-16 AWG Copper
- Rated 75 Amps with properly terminated wire
- 21/32" Line To Line Spacing
- UL Recognized File No. #E62806
- CSA Certified File No. LR19766
- CE



Catalog #:	# of Poles	Catalog #:	# of Poles
1604 STD	4	1604 ST	4
1606 STD	6	1606 ST	6
1608 STD	8	1608 ST	8
1612 STD	12	1612 ST	12
1604 DJ	4	1604 SC	4
1606 DJ	6	1606 SC	6
1608 DJ	8	1608 SC	8
1612 DJ	12	1612 SC	12
1604 DJSV	4	1604 H	4
1606 DJSV	6	1606 H	6
1608 DJSV	8	1608 H	8
1612 DJSV	12	1612 H	12



* STRC: 10-32 Stud with Riveted Connector
MCJ-Jumper Available



Catalog #:	# of Poles	A	B
1604	4	3.75	3.09
1606	6	5.06	4.41
1608	8	6.38	5.72
1612	12	9.00	8.34

MM = Dim X 25.4

Heavy Duty Terminal Blocks ...Thermoplastic

1700 Series

600 Volts

Specifications:

- Base, Thermoplastic, 125° C (UR RTI)
- Connector, Brass, Nickel Plated
- Screws, Brass, Nickel Plated, 10-32
- Rated 30 Amps with unprepared wire, #10-16 AWG Copper
- Rated 75 Amps with properly terminated wire
- 5/8" (.625") Line To Line Spacing
- UL Recognized File No. #E62806
- CSA Certified File No. LR19766
- CE

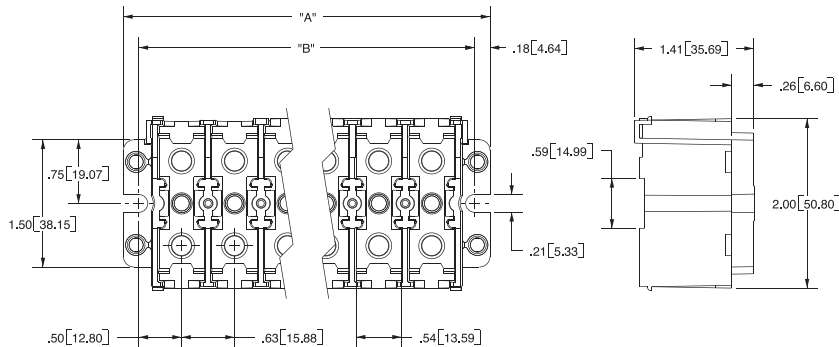


# of Poles	Standard Terminal	Short Circuit Terminal	Cover	Dimensions	
				A	B
2	1702 STD	1702 SC	CC 1702	2.00	1.64
3	1703 STD	1703 SC	CC 1703	2.63	2.26
4	1704 STD	1704 SC	CC 1704	3.25	2.89
5	1705 STD	1705 SC	CC 1705	3.88	3.51
6	1706 STD	1706 SC	CC 1706	4.50	4.14
7	1707 STD	1707 SC	CC 1707	5.13	4.76
8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

STD = Standard Terminal - Connector Plate, 2 Phil-Slot Screws, Center M/S

SC = Short Circuit Terminal

CC = Cover - Clear PVC snap on cover, sized to fit and protect



Single Row Terminal Blocks

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, service entrance devices.

Class B

Commercial appliances including business equipment, electronic data processing equipment and the like.

Class C

General industrial and machine tool controls which can be further defined as equipment falling under UL 1059.

Ratings based on UL 1059 may be higher in some cases depending on application.

Spacing Requirements*:

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

*In Inches

Reference Chart:

Series	Catalog Page	Amps	Volts	Base Material	Max Wire Size for Screw	Screw Size	Inches L to L	# of Lines	Features
411	64	5	*300	Phenolic	#18	2-56	.250	1-23	Open Back
599/799	65	15	150	Phenolic	#16	5-40	.375	1-30	Open Back
699/899	66	20	150	Phenolic	#14	6-32	.437	1-23	Open Back
812/912	67	30	600	Phenolic	#12	8-32	.562	1-18	Open Back
1690	68-69	20	300	Phenolic	#14	6-32	.437	1-25	Feed Thru
2590	70	15	150	Phenolic	#16	6-32	.375	1-25	Printed Circuit
2690	71-72	20	300	Phenolic	#14	6-32/8-32	.437	1-25	Printed Circuit

All voltage ratings based on Class C requirements unless noted.

Open back terminal blocks require an insulator strip to achieve voltage rating.

*Based on Class B requirements.

Single Row Terminal Blocks

Kulka® 411 Series

300 Volts*



Specifications:

- Base, Phenolic, 150° C
- Open Back Design (Insulator Strip Required for Voltage Rating)
- JJ (GDI-30F) Material Available
- Screws, #2-56 Binder Head, Phil-Slot
- Terminals, Plated Brass
- 1-23 Poles
- 1/4" Centers
- Wire Range With Wire Binding Screw #18-#20 AWG – 5 Amps
- The Suitability Of These Devices For Greater Currents Shall Be Determined In The End-Use Application
- UL Recognized File No. E47811
- CSA Certified File No. LR19766
- C€

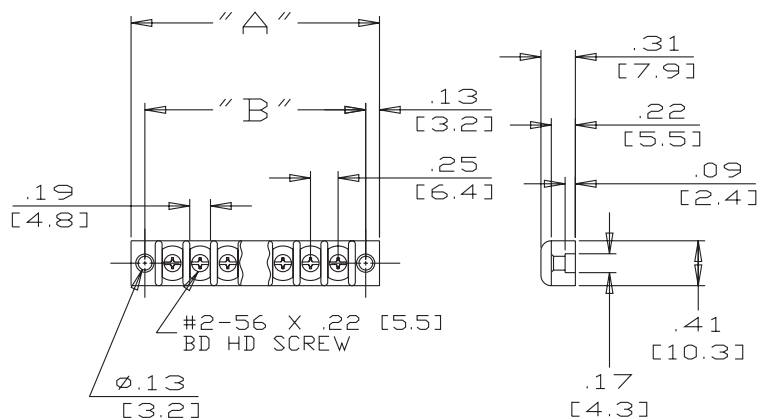
Hardware Options: (Hardware options may affect ratings - consult factory)

KT10	= Full Quick Connect (0° Flat)	See Page 92
KT11	= Full Quick Connect (45° Bend)	See Page 92
KT12	= Full Quick Connect (90° Bend)	See Page 92
ST	= Full Solder	See Page 94
J 410	= Line to Line Jumper	See Page 96
3/4 ST	= Half Solder	See Page 94
KT 16	= Half Quick Connect (0° Flat)	See Page 92
KT 17	= Half Quick Connect (45° Bend)	See Page 92
KT 18	= Half Quick Connect (90° Bend)	See Page 92
Z	= Lug Over the Side (.312)	
1921	= Printed Circuit Pin (.125) (Over the Side)	
1904	= Feed Thru Solder	See Page 98

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

MM=Dim X 25.4

*Based on Class B Requirements



Single Row Terminal Blocks

Kulka® 599/799 Series

150 Volts



Specifications:

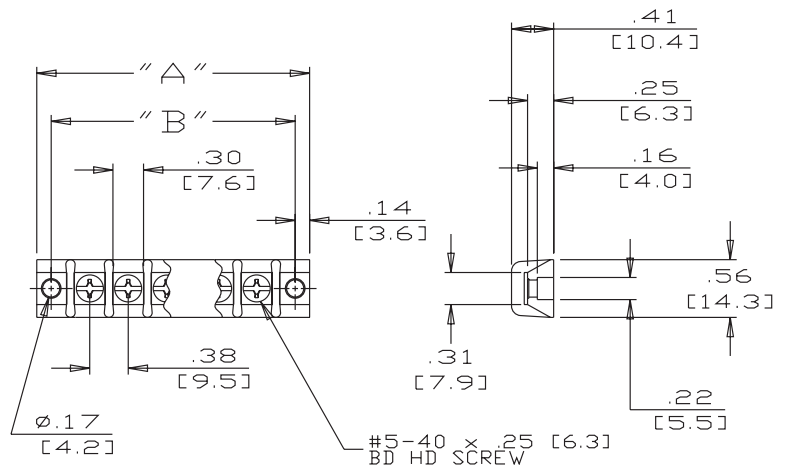
- Base, Phenolic, 150° C
- Open Back Design (Insulator Strip Required for Voltage Rating)
- JJ (GDI-30F) Material Available
- Screws, #5-40 Binder Head, Phil-Slot
- Terminals, Plated Brass
- 1-30 Poles
- 3/8" Centers
- Wire Range With Wire Binding Screw #16-#22 AWG – 15 Amps
- The Suitability Of These Devices For Greater Currents Shall Be Determined In The End-Use Application
- UL Recognized File No. E47811
- CSA Certified File No. LR19766
- 799 Series (Riveted KT's)
- CE

Catalog Description	Number of Poles	Dimensions	
		A	B
599 GP 01	1	1.03	0.75
599 GP 02	2	1.41	1.12
599 GP 03	3	1.78	1.50
599 GP 04	4	2.16	1.88
599 GP 05	5	2.53	2.25
599 GP 06	6	2.91	2.63
599 GP 07	7	3.28	3.00
599 GP 08	8	3.66	3.38
599 GP 09	9	4.03	3.75
599 GP 10	10	4.41	4.13
599 GP 11	11	4.78	4.50
599 GP 12	12	5.16	4.88
599 GP 13	13	5.53	5.25
599 GP 14	14	5.91	5.63
599 GP 15	15	6.28	6.00
599 GP 16	16	6.66	6.38
599 GP 17	17	7.03	6.75
599 GP 18	18	7.41	7.13
599 GP 19	19	7.78	7.50
599 GP 20	20	8.16	7.88
599 GP 21	21	8.53	8.25
599 GP 22	22	8.91	8.63
599 GP 23	23	9.28	9.00
599 GP 24	24	9.66	9.38
599 GP 25	25	10.03	9.75
599 GP 26	26	10.41	10.13
599 GP 27	27	10.78	10.50
599 GP 28	28	11.16	10.88
599 GP 29	29	11.53	11.25
599 GP 30	30	11.91	11.63

MM=Dim X 25.4

Hardware Options: (Hardware options may affect ratings - consult factory)

KT 28	=	Full Quick Connect (0° Flat)	See Page 92
KT 29	=	Full Quick Connect (45° Bend)	See Page 92
KT 30	=	Full Quick Connect (90° Bend)	See Page 92
J 600	=	Line to Line Jumper	See Page 96
600 RJ(S)	=	Multiple Position Jumper	See Page 96
3/4 ST	=	Half Solder	See Page 94
KT 34	=	Half Quick Connect (0° Flat)	See Page 92
KT 35	=	Half Quick Connect (45° Bend)	See Page 92
KT 36	=	Half Quick Connect (90° Bend)	See Page 92
Z	=	Lug Over the Side (.312)	See Page 95
2002	=	Stud	See Page 98
2004	=	Feed Thru Solder	See Page 98
2020	=	Solder Pin	See Page 98
2021	=	Solder Pin	See Page 98



Single Row Terminal Blocks

Kulka® 699/899 Series

150 Volts



Specifications:

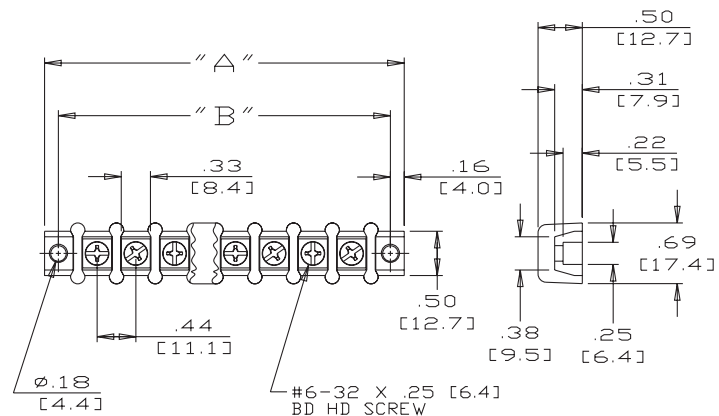
- Base, Phenolic, 150° C
- Open Back Design (Insulator Strip Required for Voltage Rating)
- JJ (GDI-30F) Material Available
- Screws, #6-32 Binder Head, Phil-Slot
- Terminals, Plated Brass
- 1-23 Poles
- 7/16" Centers
- Wire Range With Wire Binding Screw #14-#16 AWG – 20 Amps
- The Suitability Of These Devices For Greater Currents Shall Be Determined In The End-Use Application
- UL Recognized File No. E47811
- CSA Certified File No. LR19766
- 899 Series (Riveted KT's)
- CE

Hardware Options: (Hardware options may affect ratings - consult factory)

Catalog Description	Number of Poles	Dimensions	
		A	B
699 GP 01	1	1.19	0.88
699 GP 02	2	1.63	1.31
699 GP 03	3	2.06	1.75
699 GP 04	4	2.50	2.19
699 GP 05	5	2.94	2.63
699 GP 06	6	3.38	3.06
699 GP 07	7	3.81	3.50
699 GP 08	8	4.25	3.94
699 GP 09	9	4.69	4.38
699 GP 10	10	5.12	4.81
699 GP 11	11	5.56	5.25
699 GP 12	12	6.00	5.69
699 GP 13	13	6.44	6.13
699 GP 14	14	6.87	6.56
699 GP 15	15	7.31	7.00
699 GP 16	16	7.75	7.44
699 GP 17	17	8.19	7.88
699 GP 18	18	8.62	8.31
699 GP 19	19	9.06	8.75
699 GP 20	20	9.50	9.19
699 GP 21	21	9.94	9.63
699 GP 22	22	10.37	10.06
699 GP 23	23	10.81	10.50

MM=Dim X 25.4

KT 46	=	Full Quick Connect (0° Flat)	See Page 92
KT 47	=	Full Quick Connect (45° Bend)	See Page 92
KT 48	=	Full Quick Connect (90° Bend)	See Page 92
J 601	=	Line to Line Jumper	See Page 96
601 RJ(S)	=	Multiple Position Jumper	See Page 96
3/4 ST	=	Half Solder	See Page 94
KT 52	=	Half Quick Connect (0° Flat)	See Page 92
KT 53	=	Half Quick Connect (45° Bend)	See Page 92
KT 54	=	Half Quick Connect (90° Bend)	See Page 92
Z	=	Lug Over the Side (.437)	See Page 95
2102	=	Stud	See Page 98
2104	=	Feed Thru Solder	See Page 98
2120	=	Solder Pin	See Page 98
2121	=	Solder Pin	See Page 98



Single Row Terminal Blocks

Kulka® 812/912 Series

600 Volts



Specifications:

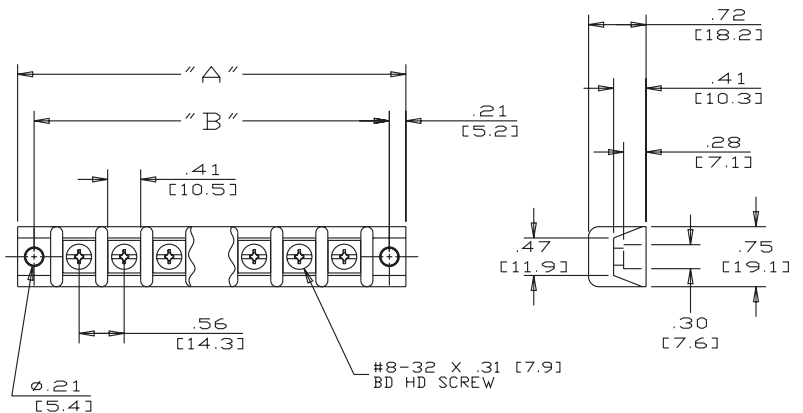
- Base, Phenolic, 150° C
- Open Back Design (Insulator Strip Required for Voltage Rating)
- JJ (GDI-30F) Material Available
- Screws, #8-32 Binder Head, Phil-Slot
- Terminals, Plated Brass
- 1-18 Poles
- 9/16" Centers
- Wire Range With Wire Binding Screw #12-#14 AWG – 30 Amps
- The Suitability Of These Devices For Greater Currents Shall Be Determined In The End-Use Application
- UL Recognized File No. E47811
- CSA Certified File No. LR19766
- 912 Series (Riveted KT's)
- CE

Catalog Description	Number of Poles	Dimensions	
		A	B
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

MM=Dim X 25.4

Hardware Options: (Hardware options may affect ratings - consult factory)

KT 73	=	Full Quick Connect (0° Flat)	See Page 92
KT 74	=	Full Quick Connect (45° Bend)	See Page 92
KT 75	=	Full Quick Connect (90° Bend)	See Page 92
J 602	=	Line to Line Jumper	See Page 96
3/4 ST	=	Half Solder	See Page 94
KT 79	=	Half Quick Connect (0° Flat)	See Page 92
KT 80	=	Half Quick Connect (45° Bend)	See Page 92
KT 81	=	Half Quick Connect (90° Bend)	See Page 92
Z	=	Lug Over the Side (.641)	See Page 95
2202	=	Stud	See Page 98
2204	=	Feed Thru Solder	See Page 98



Single Row Terminal Blocks

Kulka® 1690 Series

300 Volts

Specifications:

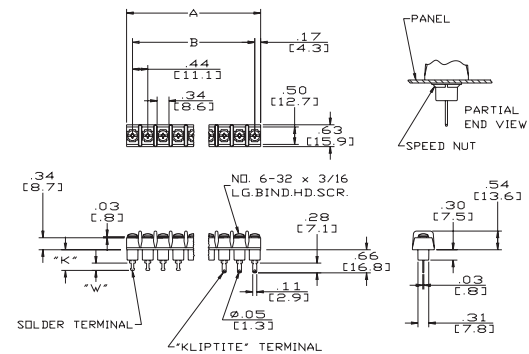
- Base, Phenolic, 150° C
- Screws, #6-32 Binder Head, Phil-Slot
- 7/16" Centers
- Terminals, Plated Brass
- Wire Range #14 Max. – 20 Amps
- The Suitability Of These Devices For Greater Currents Shall Be Determined In The End-Use Application
- UL Recognized File No. E47811
- CSA Certified File No. LR19766
- C €



1691 GP / 1692 GP / 1693 GP		
Number of Terminals	Dimensions	
	A	B
1	0.34	--
2	0.78	0.44
3	1.22	0.88
4	1.66	1.31
5	2.09	1.75
6	2.53	2.19
7	2.97	2.63
8	3.41	3.06
9	3.84	3.50
10	4.28	3.94
11	4.72	4.38
12	5.16	4.81
13	5.59	5.25

MM=Dim X 25.4

1691 GP / 1692 GP / 1693 GP		
Number of Terminals	Dimensions	
	A	B
14	6.03	5.69
15	6.47	6.13
16	6.91	6.56
17	7.34	7.00
18	7.78	7.44
19	8.22	7.88
20	8.66	8.31
21	9.09	8.75
22	9.53	9.19
23	9.97	9.63
24	10.41	10.06
25	10.84	10.50



1691 Solder terminal
K=.52 [13.10] W=.06 [1.59]

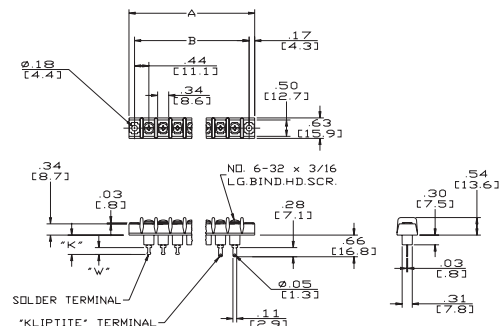
1692 Kliptite terminal

1693 Solder terminal
K=.58 [14.68] W=.13 [3.18]

1694 GP / 1695 GP / 1696 GP		
Number of Terminals	Dimensions	
	A	B
1	1.22	0.88
2	1.66	1.31
3	2.09	1.75
4	2.53	2.19
5	2.97	2.63
6	3.41	3.06
7	3.84	3.50
8	4.28	3.94
9	4.72	4.38
10	5.16	4.81
11	5.59	5.25
12	6.03	5.69

MM=Dim X 25.4

1694 GP / 1695 GP / 1696 GP		
Number of Terminals	Dimensions	
	A	B
13	6.47	6.13
14	6.91	6.56
15	7.34	7.00
16	7.78	7.44
17	8.22	7.88
18	8.66	8.31
19	9.09	8.75
20	9.53	9.19
21	9.97	9.63
22	10.41	10.06
23	10.84	10.50



1694 Solder terminal
K=.52 [13.10] W=.06 [1.59]

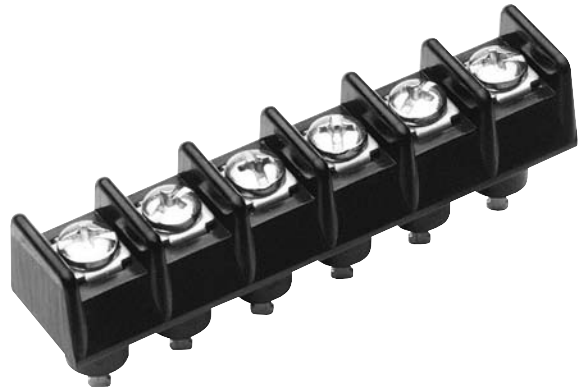
1695 Kliptite terminal

1696 Solder terminal
K=.58 [14.68] W=.13 [3.18]

Single Row Terminal Blocks

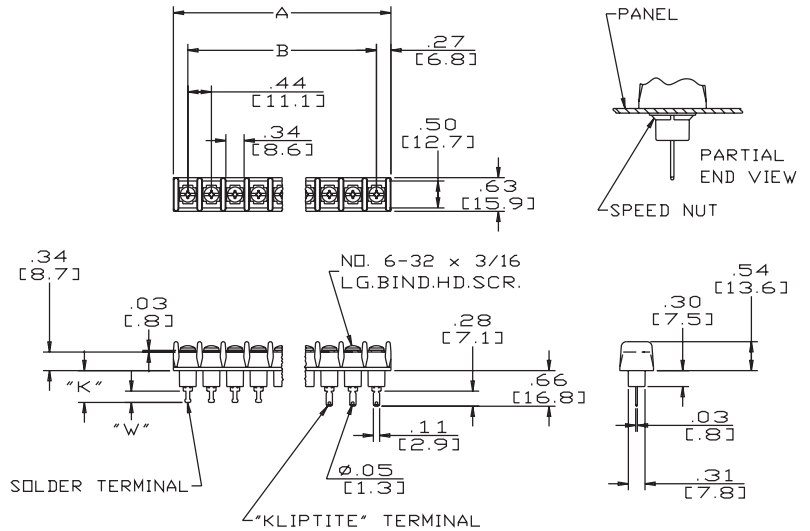
Kulka® 1690 Series

300 Volts



1697 GP / 1698 GP / 1699 GP		
Number of Terminals	Dimensions	
	A	B
1	0.53	--
2	0.97	0.44
3	1.41	0.88
4	1.84	1.31
5	2.28	1.75
6	2.72	2.19
7	3.16	2.63
8	3.59	3.06
9	4.03	3.50
10	4.47	3.94
11	4.91	4.38
12	5.34	4.81
13	5.78	5.25
14	6.22	5.69
15	6.66	6.13
16	7.09	6.56
17	7.53	7.00
18	7.97	7.44
19	8.41	7.88
20	8.84	8.31
21	9.28	8.75
22	9.72	9.19
23	10.16	9.63

MM=Dim X 25.4



Hardware Options: (Hardware options may affect ratings - consult factory)

KT 46	=	Full Quick Connect (0° Flat)	See Page 92
KT 47	=	Full Quick Connect (45° Bend)	See Page 92
KT 48	=	Full Quick Connect (90° Bend)	See Page 92
J 601	=	Line to Line Jumper	See Page 96
601 RJ(S)	=	Multiple Position Jumper	See Page 96
3/4 ST	=	Half Solder	See Page 94
KT 52	=	Half Quick Connect (0° Flat) .250	See Page 92
KT 53	=	Half Quick Connect (45° Bend) .250	See Page 92
KT 54	=	Half Quick Connect (90° Bend) .250	See Page 92

1697 GP	Solder Terminal
	K=.52 W=.06 [13.10] [1.59]
1698 GP	KlipTite Terminal
1699 GP	Solder Terminal
	K=.58 W=.13 [14.68] [3.18]

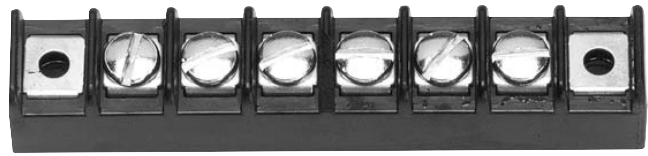
Single Row Terminal Blocks

Kulka® 2590 Series

150 Volts

Specifications:

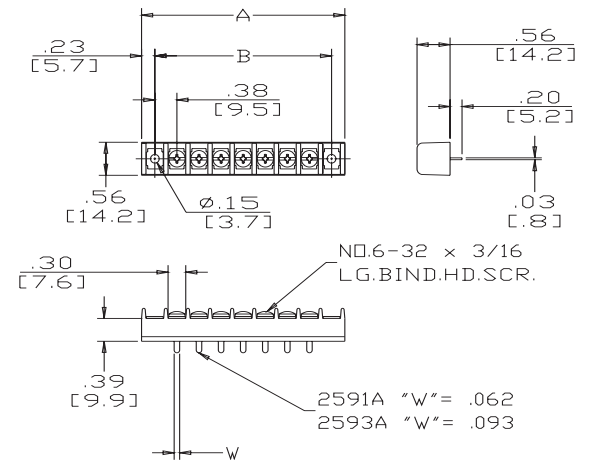
- Base, Phenolic, 150° C
- Screws, #6-32 Binder Head, Slotted
- 3/8" Centers
- Terminals, Plated Brass
- Wire Range #16 Max. – 15 Amps
- The Suitability Of These Devices For Greater Currents Shall Be Determined In The End-Use Application
- UL Recognized File No. E47811
- CSA Certified File No. LR19766
- CE



2591A GP / 2593A GP		
Number of Terminals	Dimensions	
	A	B
1	1.19	0.75
2	1.56	1.13
3	1.94	1.50
4	2.31	1.88
5	2.69	2.25
6	3.06	2.63
7	3.44	3.00
8	3.81	3.38
9	4.19	3.75
10	4.56	4.13
11	4.94	4.50
12	5.31	4.88

MM=Dim X 25.4

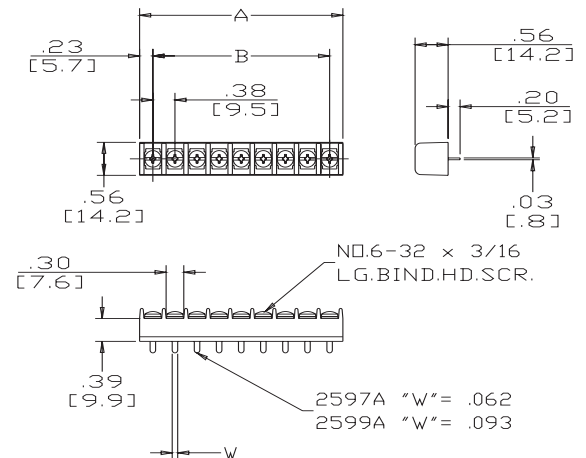
2591A GP / 2593A GP		
Number of Terminals	Dimensions	
	A	B
13	5.69	5.25
14	6.06	5.63
15	6.44	6.00
16	6.81	6.38
17	7.19	6.75
18	7.56	7.13
19	7.94	7.50
20	8.31	7.88
21	8.69	8.25
22	9.06	8.63
23	9.44	9.00



2597A GP / 2599A GP		
Number of Terminals	Dimensions	
	A	B
1	0.44	--
2	0.81	0.38
3	1.19	0.75
4	1.56	1.13
5	1.94	1.50
6	2.31	1.88
7	2.69	2.25
8	3.06	2.63
9	3.44	3.00
10	3.81	3.38
11	4.19	3.75
12	4.56	4.13
13	4.94	4.50

MM=Dim X 25.4

2597A GP / 2599A GP		
Number of Terminals	Dimensions	
	A	B
14	5.31	4.88
15	5.69	5.25
16	6.06	5.63
17	6.44	6.00
18	6.81	6.38
19	7.19	6.75
20	7.56	7.13
21	7.94	7.50
22	8.31	7.88
23	8.69	8.25
24	9.06	8.63
25	9.44	9.00



Single/Double Row Terminal Blocks

Hardware Options: (Hardware options may affect ratings - consult factory)

KT 28 = Full Quick Connect (0° Flat)	See Page 92	KT 34 = Half Quick Connect (0° Flat)	See Page 92
KT 29 = Full Quick Connect (45° Bend)	See Page 92	KT 35 = Half Quick Connect (45° Bend)	See Page 92
KT 30 = Full Quick Connect (90° Bend)	See Page 92	KT 36 = Half Quick Connect (90° Bend)	See Page 92
J 600 = Line to Line Jumper	See Page 96	Z = Lug Over the Side (.172)	
600 RJ(S) = Multiple Position Jumper	See Page 96	Y = Lug Over the Side (.359)	
3/4 ST = Half Solder	See Page 94	2593A PC = Printed Circuit (.20 X .093)	
3000 = Wire Wrap Lug (.641)		2599A PC = Printed Circuit (.20 X .093)	
2591A PC = Printed Circuit (.20 X .062)			
2597A PC = Printed Circuit (.20 X .062)			

Single Row Terminal Blocks

Kulka® 2690 Series

300 Volts



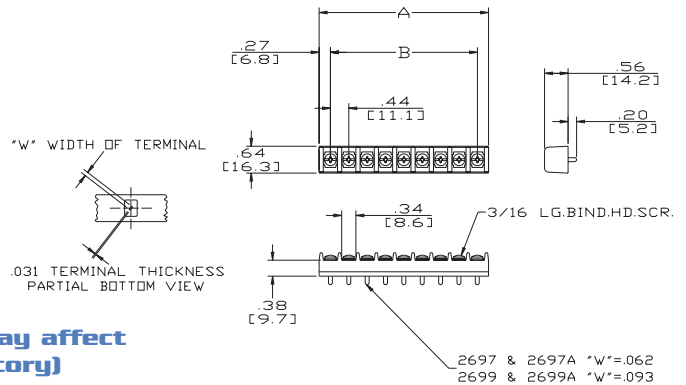
2697 GP / 2698 GP / 2699 GP
2697A GP / 2698A GP / 2699A GP

Number of Terminals	Dimensions	
	A	B
1	0.53	--
2	0.97	0.44
3	1.41	0.88
4	1.84	1.31
5	2.28	1.75
6	2.72	2.19
7	3.16	2.63
8	3.59	3.06
9	4.03	3.50
10	4.47	3.94
11	4.91	4.38
12	5.34	4.81
13	5.78	5.25
14	6.22	5.69
15	6.66	6.13
16	7.09	6.56
17	7.53	7.00
18	7.97	7.44
19	8.41	7.88
20	8.84	8.31
21	9.28	8.75
22	9.72	9.19
23	10.16	9.63
24	10.59	10.06
25	11.03	10.50

MM=Dim X 25.4

Definition Barrier Ends:

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



Hardware Options: (Hardware options may affect ratings - consult factory)

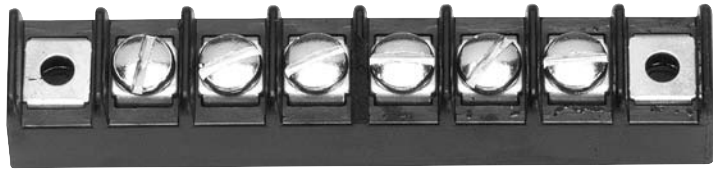
- | | | | |
|-----------|---|------------------------------------|-------------|
| KT 28 | = | Full Quick Connect (0° Flat) .187 | See Page 92 |
| KT 29 | = | Full Quick Connect (45° Bend) .187 | See Page 92 |
| KT 30 | = | Full Quick Connect (90° Bend) .187 | See Page 92 |
| KT 34 | = | Half Quick Connect (0° Flat) .187 | See Page 92 |
| KT 35 | = | Half Quick Connect (45° Bend) .187 | See Page 92 |
| KT 36 | = | Half Quick Connect (90° Bend) .187 | See Page 92 |
| KT 46 | = | Full Quick Connect (0° Flat) .250 | See Page 92 |
| KT 47 | = | Full Quick Connect (45° Bend) .250 | See Page 92 |
| KT 48 | = | Full Quick Connect (90° Bend) .250 | See Page 92 |
| KT 52 | = | Half Quick Connect (0° Flat) .250 | See Page 92 |
| KT 53 | = | Half Quick Connect (45° Bend) .250 | See Page 92 |
| KT 54 | = | Half Quick Connect (90° Bend) .250 | See Page 92 |
| J 601 | = | Line to Line Jumper | See Page 96 |
| 601 RJ(S) | = | Multiple Position Jumper | See Page 96 |
| 3/4 ST | = | Half Solder | See Page 94 |
| Z | = | Lug Over the Side (.344) | |
| Y | = | Lug Over the Side (.609) | |

2697 & 2697A *W*=.062
2699 & 2699A *W*=.093

Single Row Terminal Blocks

Kulka® 2690 Series

300 Volts

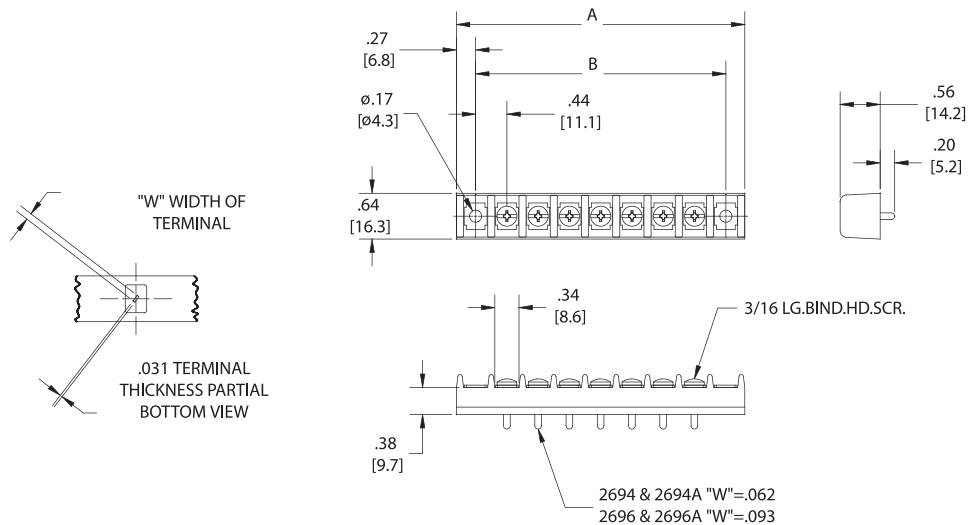


Specifications:

- Base, General Purpose Phenolic, 150° C
- Screws, #6-32 Binder Head, Slotted Or 8-32 Binder Head, Slotted
- 7/16" Centers
- Terminals, Plated Brass
- Wire Range #14-#16 AWG – 20 Amps
- The Suitability Of These Devices For Greater Currents Shall Be Determined In The End-Use Application
- UL Recognized File No. E47811
- CSA Certified File No. LR19766
- CE

2694 GP / 2695 GP / 2696 GP
2694A GP / 2695A GP / 2696A GP

Number of Terminals	Dimensions	
	A	B
1	1.41	0.88
2	1.84	1.31
3	2.28	1.75
4	2.72	2.19
5	3.16	2.63
6	3.59	3.06
7	4.03	3.50
8	4.47	3.94
9	4.91	4.38
10	5.34	4.81
11	5.78	5.25
12	6.22	5.69
13	6.66	6.13
14	7.09	6.56
15	7.53	7.00
16	7.97	7.44
17	8.41	7.88
18	8.84	8.31
19	9.28	8.75
20	9.72	9.19
21	10.16	9.63
22	10.59	10.06
23	11.03	10.50



MM = Dim X 25.4

Definition Mount Ends:

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

*See page 71 for hardware options.

Double Row Terminal Blocks

General Information:

Double Row Terminal Blocks are available in four basic line to line molding sizes. Some are available in either open or closed back designs. The basic material is phenolic, however thermoplastic is also available on certain sizes. 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, electronic data processing equipment and the like.

Class C

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

Ratings based on UL 1059 may be higher in some cases depending on application.

Spacing Requirements*:

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

*In Inches

Reference Chart:

Series	Catalog Page	Amps	Volts	Base Material	Max Wire Size for Screw	Screw Size	Inches L to L	# of Lines	Features
100/670A	74	20	150	Phenolic	#12	6-32	.375	1-36	Closed Back
200/671	75	20	300	Phenolic	#12	6-32	.437	1-30	Closed Back
200 HB	76	20	600	Phenolic	#12	6-32	.437	1-30	High Barrier/ Closed Back
300/672	77	30	600	Phenolic	#10	8-32	.562	1-24	Closed Back
400	78	30	600	Phenolic	#10	10-32	.687	1-12	Closed Back
410	79	5	*300	Phenolic	#18	2-56	.250	1-23	Open Back
600	80	15	300	Phenolic	#12	5-40	.375	1-22	Open Back
600A	81	15	300	Phenolic	#12	6-32	.375	1-22	Open Back
601	82	20	300	Phenolic	#12	6-32	.437	1-23	Open Back
602	83	30	300	Phenolic	#12	8-32	.562	1-26	Open Back
603	84	50	600	Phenolic	#10	10-32	.687	1-12	Open Back
604	85	70	600	Phenolic	#4	12-32	.875	1-8	Open Back
605	86	90	600	Phenolic	#2	1/4-28	1.125	1-6	Open Back
621 RZ	87	20	600	Thermoplastic	#12	6-32	.437	1-30	High Barrier/ Closed Back
670A RZ	88	20	*300	Thermoplastic	#12	6-32	.375	1-30	Closed Back
671 RZ	89	20	*300	Thermoplastic	#12	6-32	.437	1-30	Closed Back
672 RZ	90	30	600	Thermoplastic	#10	8-32	.562	1-24	Closed Back

All voltage ratings based on Class C requirements unless noted.

Open back terminal blocks require an insulator strip to achieve voltage rating.

*Based on Class B requirements.

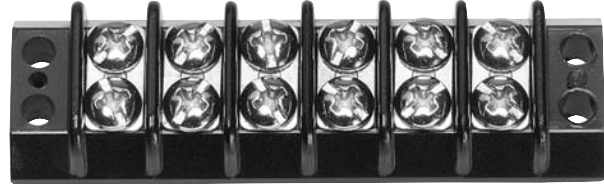
Double Row Terminal Blocks

100 Series Kulka® 670A GP Series

150 Volts

Specifications:

- Base, General Purpose Phenolic, 150° C
- Closed Back Design
- Screws, #6-32 Binder Head, Phil-Slot
- Terminals, Plated Brass
- 1-36 Poles
- 3/8" Centers
- Wire Range With Wire Binding Screw #12-#22 AWG – 20 Amps
- Wire Range With Sems Pressure Screw #18-#22 AWG Stranded Copper Wire Only, 150 Volts 15 Amps
- The Suitability Of These Devices For Greater Currents Shall Be Determined In The End-Use Application
- UL Recognized File No. E62806
- CSA Certified File No. LR19766
- CC



MSP Catalog #	Kulka® Catalog #	# of poles	Dimensions	
			A	B
101	670A GP 01	1	1.03	0.75
102	670A GP 02	2	1.41	1.13
103	670A GP 03	3	1.78	1.50
104	670A GP 04	4	2.16	1.88
105	670A GP 05	5	2.53	2.25
106	670A GP 06	6	2.91	2.63
107	670A GP 07	7	3.28	3.00
108	670A GP 08	8	3.66	3.38
109	670A GP 09	9	4.03	3.75
110	670A GP 10	10	4.41	4.13
111	670A GP 11	11	4.78	4.50
112	670A GP 12	12	5.16	4.88
113	670A GP 13	13	5.53	5.25
114	670A GP 14	14	5.91	5.63
115	670A GP 15	15	6.28	6.00
116	670A GP 16	16	6.66	6.38
117	670A GP 17	17	7.03	6.75
118	670A GP 18	18	7.41	7.13

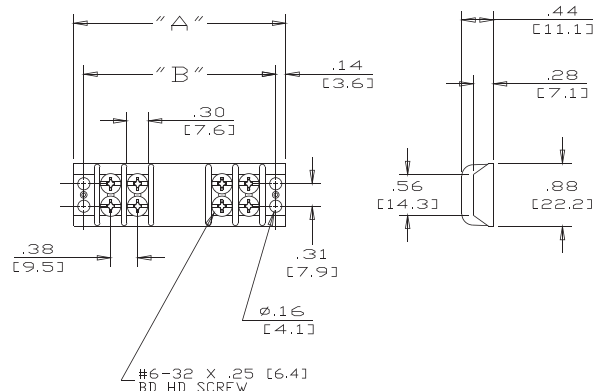
Top Mounted Hardware is .187" Wide

MSP Catalog #	Kulka® Catalog #	# of poles	Dimensions	
			A	B
119	670A GP 19	19	7.78	7.50
120	670A GP 20	20	8.16	7.88
121	670A GP 21	21	8.53	8.25
122	670A GP 22	22	8.91	8.63
123	670A GP 23	23	9.28	9.00
124	670A GP 24	24	9.66	9.38
125	670A GP 25	25	10.03	9.75
126	670A GP 26	26	10.41	10.13
127	670A GP 27	27	10.78	10.50
128	670A GP 28	28	11.16	10.88
129	670A GP 29	29	11.53	11.25
130	670A GP 30	30	11.91	11.63
131	670A GP 31	31	12.28	12.00
132	670A GP 32	32	12.66	12.38
133	670A GP 33	33	13.03	12.75
134	670A GP 34	34	13.41	13.13
135	670A GP 35	35	13.78	13.50
136	670A GP 36	36	14.16	13.88

MM=Dim X 25.4

Hardware Options: (Hardware options may affect ratings - consult factory)

MSP	KULKA		
(F1)	KT 19	= Full Quick Connect (0° flat)	See Page 93
(F2)	KT 20	= Full Quick Connect (45° Bend)	See Page 93
(F3)	KT 21	= Full Quick Connect (90° Bend)	See Page 93
(S)	ST	= Full Solder	See Page 94
(LL100)	J 600	= Line to Line Jumper	See Page 96
	600RJ(S)	= Multiple Position Jumper	See Page 96
(HS)	3/4 ST	= Half Solder	See Page 94
(HF1)	KT 25	= Half Quick Connect (0° Flat)	See Page 93
(HF2)	KT 26	= Half Quick Connect (45° Bend)	See Page 93
(HF3)	KT 27	= Half Quick Connect (90° Bend)	See Page 93
(SP)	3865	= Sems Pressure Saddle Screw	See Page 96
(L)	Y	= Feed Thru Solder (.312)	
	LWW	= Feed Thru Wire Wrap (.593)	
	YSY	= Feed Thru Solder (.500)	



Double Row Terminal Blocks

200 Series Kulka® 671 GP Series

300 Volts

Specifications:

- Base, General Purpose Phenolic, 150° C
- Closed Back Design
- Screws, #6-32 Binder Head, Phil-Slot
- Terminals, Plated Brass
- 1-30 Poles
- 7/16" Centers
- Wire Range With Wire Binding Screw #12-#22 AWG – 20 Amps
- Wire Range With Sems Pressure Screw #12-#22 AWG Stranded Copper Wire Only, 20 Amps
- Will Accommodate Lugs For Wire Sizes #10-#16 AWG – 30 Amps
- The Suitability Of These Devices For Greater Currents Shall Be Determined In The End-Use Application
- UL Recognized File No. E62806
- CSA Certified File No. LR19766
- C E



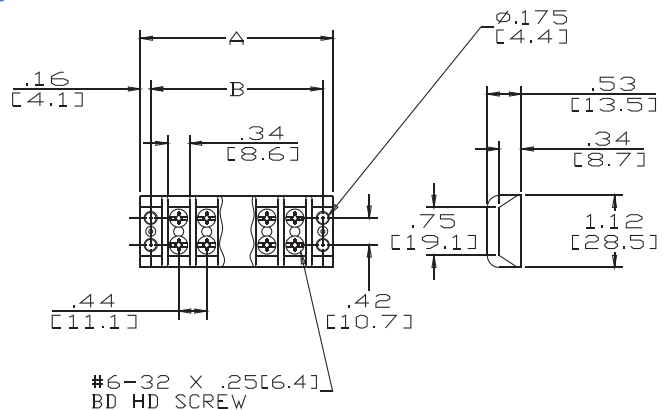
MSP Catalog #	Kulka® Catalog #	# of poles	Dimensions	
			A	B
201	671 GP 01	1	1.19	0.88
202	671 GP 02	2	1.62	1.31
203	671 GP 03	3	2.06	1.75
204	671 GP 04	4	2.50	2.19
205	671 GP 05	5	2.94	2.63
206	671 GP 06	6	3.37	3.06
207	671 GP 07	7	3.81	3.50
208	671 GP 08	8	4.25	3.94
209	671 GP 09	9	4.69	4.38
210	671 GP 10	10	5.12	4.81
211	671 GP 11	11	5.56	5.25
212	671 GP 12	12	6.00	5.69
213	671 GP 13	13	6.44	6.13
214	671 GP 14	14	6.87	6.56
215	671 GP 15	15	7.31	7.00

MSP Catalog #	Kulka® Catalog #	# of poles	Dimensions	
			A	B
216	671 GP 16	16	7.75	7.44
217	671 GP 17	17	8.19	7.88
218	671 GP 18	18	8.62	8.31
219	671 GP 19	19	9.06	8.75
220	671 GP 20	20	9.50	9.19
221	671 GP 21	21	9.94	9.63
222	671 GP 22	22	10.37	10.06
223	671 GP 23	23	10.81	10.50
224	671 GP 24	24	11.25	10.94
225	671 GP 25	25	11.69	11.38
226	671 GP 26	26	12.12	11.81
227	671 GP 27	27	12.56	12.25
228	671 GP 28	28	13.00	12.69
229	671 GP 29	29	13.44	13.13
230	671 GP 30	30	13.87	13.56

MM=Dim X 25.4

Hardware Options: (Hardware options may affect ratings - consult factory)

MSP	KULKA		
(F1)	KT 37	= Full Quick Connect (0° flat)	See Page 93
(F2)	KT 38	= Full Quick Connect (45° Bend)	See Page 93
(F3)	KT 39	= Full Quick Connect (90° Bend)	See Page 93
(S)	ST	= Full Solder	See Page 94
(LL 200)	J601	= Line to Line Jumper	See Page 96
	601RJ(S)	= Multiple Position Jumper	See Page 96
(HS)	3/4 ST	= Half Solder	See Page 94
(HF1)	KT 43	= Half Quick Connect (0° Flat)	See Page 93
(HF2)	KT 44	= Half Quick Connect (45° Bend)	See Page 93
(HF3)	KT 45	= Half Quick Connect (90° Bend)	See Page 93
(SP)	3765	= Sems Pressure Saddle Screw	See Page 96
(SPSE)	3767	= Sems Pressure Saddle Screw with External Tooth Lock Washer	
	LWW	= Feed Thru Wire Wrap (.640)	
(L)	Y	= Feed Thru Solder (.437)	
	YSY	= Feed Thru Solder (.625)	



Single/Double Row Terminal Blocks

Double Row Terminal Blocks

200 HB Series (High Barrier)

600 Volts

Specifications:

- Base, General Purpose Phenolic, 150° C
- Closed Back Design
- Screws, #6-32 Binder Head, Phil-Slot
- Terminals, Plated Brass
- 1-30 Poles
- 7/16" Centers
- Wire Range With Wire Binding Screw #12-#22 AWG – 20 Amps
- Wire Range With Sems Pressure Screw #12-#22 AWG Stranded Copper Wire Only, 20 Amps
- Will Accommodate Lugs For Wire Sizes #10-#16 AWG – 30 Amps
- The Suitability Of These Devices For Greater Currents Shall Be Determined In The End-Use Application
- UL Recognized File No. E62806
- CSA Certified File No. LR19766
- CE



Catalog #	# of poles	Dimensions	
		A	B
201HB	1	1.19	0.88
202HB	2	1.62	1.31
203HB	3	2.06	1.75
204HB	4	2.50	2.19
205HB	5	2.94	2.63
206HB	6	3.37	3.06
207HB	7	3.81	3.50
208HB	8	4.25	3.94
209HB	9	4.69	4.38
210HB	10	5.12	4.81
211HB	11	5.56	5.25
212HB	12	6.00	5.69
213HB	13	6.44	6.13
214HB	14	6.87	6.56
215HB	15	7.31	7.00

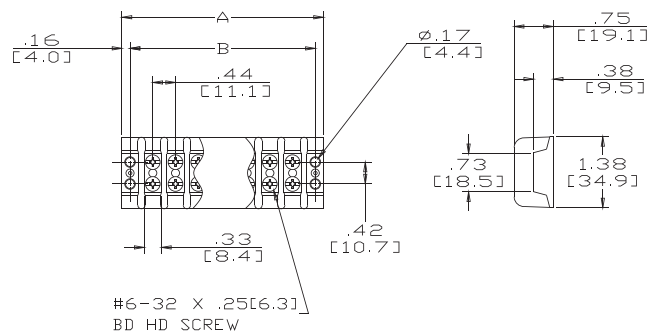
Catalog #	# of poles	Dimensions	
		A	B
216HB	16	7.75	7.44
217HB	17	8.19	7.88
218HB	18	8.62	8.31
219HB	19	9.06	8.75
220HB	20	9.50	9.19
221HB	21	9.94	9.63
222HB	22	10.37	10.06
223HB	23	10.81	10.50
224HB	24	11.25	10.94
225HB	25	11.69	11.38
226HB	26	12.12	11.81
227HB	27	12.56	12.25
228HB	28	13.00	12.69
229HB	29	13.44	13.13
230HB	30	13.87	13.56

MM = Dim x 25.4

Top Mounted Hardware is .250" Wide

Hardware Options: (Hardware options may affect ratings - consult factory)

- | | | |
|-----------|--------------------------------------------------------------|-------------|
| (F1) | = Full Quick Connect (0° flat) | See Page 93 |
| (F2) | = Full Quick Connect (45° Bend) | See Page 93 |
| (F3) | = Full Quick Connect (90° Bend) | See Page 93 |
| (S) | = Full Solder | See Page 94 |
| LL 200HB | = Line to Line Jumper | See Page 96 |
| 601 RJ(S) | = Multiple Position Jumper | See Page 96 |
| (HS) | = Half Solder | See Page 94 |
| (HF1) | = Half Quick Connect (0° Flat) | See Page 93 |
| (HF2) | = Half Quick Connect (45° Bend) | See Page 93 |
| (HF3) | = Half Quick Connect (90° Bend) | See Page 93 |
| (SP) | = Sems Pressure Saddle Screw | See Page 96 |
| (SPSE) | = Sems Pressure Saddle Screw with External Tooth Lock Washer | |
| LWW | = Feed Thru Wire Wrap (.640) | |
| Y(L) | = Feed Thru Solder (.625) | |
| YSY | = Feed Thru Solder (.437) | |



Double Row Terminal Blocks

300 Series Kulka® 672 GP Series

600 Volts



Specifications:

- Base, General Purpose Phenolic, 150° C
- Closed Back Design
- Screws, #8-32 Binder Head, Phil-Slot
- Terminals, Plated Brass
- 1-24 Poles
- 9/16" Centers
- Wire Range with Wire Binding Screw # 10 - #14 AWG - 30 Amps
- Wire Range with Sems Pressure Screw #10 - #22 AWG Stranded Copper Wire Only, 30 Amps
- Will Accommodate Lugs for Wire Sizes #10 - #16 AWG - 30 Amps
- The Suitability of These Devices for Greater Currents Shall Be Determined in the End-Use Application
- UL Recognized File No. E62806
- CSA Certified File No. LR19766
- C E

MSP Catalog #	Kulka® Catalog #	# of poles	Dimensions	
			A	B
301	672 GP 01	1	1.54	1.13
302	672 GP 02	2	2.10	1.69
303	672 GP 03	3	2.66	2.25
304	672 GP 04	4	3.22	2.81
305	672 GP 05	5	3.79	3.38
306	672 GP 06	6	4.35	3.94
307	672 GP 07	7	4.91	4.50
308	672 GP 08	8	5.47	5.06
309	672 GP 09	9	6.04	5.63
310	672 GP 10	10	6.60	6.19
311	672 GP 11	11	7.16	6.75
312	672 GP 12	12	7.72	7.31

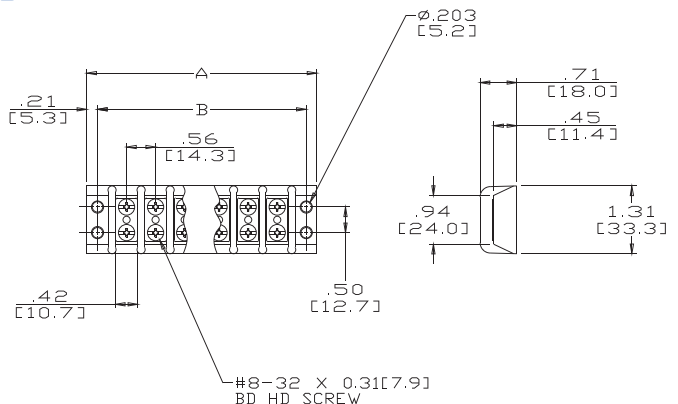
MSP Catalog #	Kulka® Catalog #	# of poles	Dimensions	
			A	B
313	672 GP 13	13	8.29	7.88
314	672 GP 14	14	8.85	8.44
315	672 GP 15	15	9.41	9.00
316	672 GP 16	16	9.97	9.56
317	672 GP 17	17	10.54	10.13
318	672 GP 18	18	11.10	10.69
319	672 GP 19	19	11.66	11.25
320	672 GP 20	20	12.22	11.81
321	672 GP 21	21	12.79	12.38
322	672 GP 22	22	13.35	12.94
323	672 GP 23	23	13.91	13.50
324	672 GP 24	24	14.47	14.06

Top Mounted Hardware is .250" Wide

MM = Dim x 25.4

Hardware Options: (Hardware options may affect ratings - consult factory)

MSP	KULKA		
(F1)	KT 55	= Full Quick Connect (0° Flat)	See Page 93
(F2)	KT 56	= Full Quick Connect (45° Bend)	See Page 93
(F3)	KT 57	= Full Quick Connect (90° Bend)	See Page 93
(S)	ST	= Full Solder	See Page 94
(LL 300)	J602	= Line to Line Jumper	See Page 96
(HS)	3/4 ST	= Half Solder	See Page 94
(HF1)	KT 61	= Half Quick Connect (0° Flat)	See Page 93
(HF2)	KT 62	= Half Quick Connect (45° Bend)	See Page 93
(HF3)	KT 63	= Half Quick Connect (90° Bend)	See Page 93
(SP)	3786	= Sems Pressure Saddle Screw	See Page 96
(SPSE)		= Sems Pressure Saddle Screw with External Tooth Lock Washer	
	LWW	= Feed Thru Wire Wrap (1.00)	
(L)	Y	= Feed Thru Solder (.437)	
	YSY	= Feed Thru Solder (.625)	



Single/Double Row Terminal Blocks

Double Row Terminal Blocks

400 Series

600 Volts

Specifications:

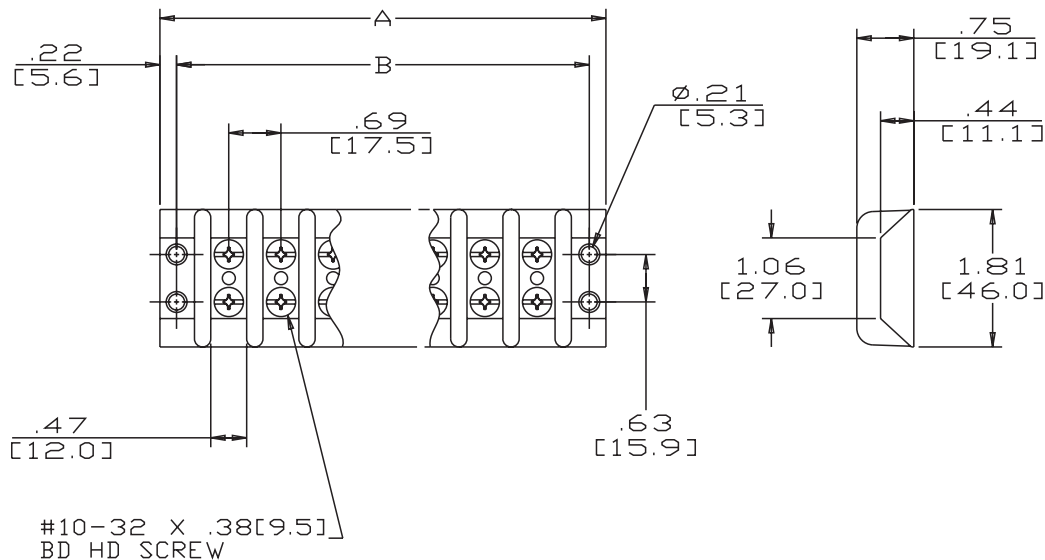
- Base, General Purpose Phenolic, 150° C
- Closed Back Design
- Screws, #10-32 Binder Head, Phil-Slot
- Terminals, Plated Brass
- 1-12 Poles
- 11/16" Centers
- Wire Range With Wire Binding Screw #10-#22 AWG – 30 Amps
- Wire Range With Sems Pressure Screw #10-#22 AWG Stranded Copper Wire Only, 30 Amps
- Will Accommodate Lugs For Wire Sizes #6-#16 AWG – 65 Amps
- The Suitability Of These Devices For Greater Currents Shall Be Determined In The End-Use Application
- UL Recognized File No. E62806
- CSA Certified File No. LR19766
- CE



Catalog #	# of poles	Dimensions	
		A	B
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

Hardware Options: (Hardware options may affect ratings - consult factory)

- SPSE = Sems Pressure Saddle Screw
 J603(LL 400) = Line to Line Jumper See Page 96



Double Row Terminal Blocks

Kulka® 410 GP Series

300 Volts*



Specifications:

- Base, Phenolic, 150° C
- Open Back Design (Insulator Strip Required for Voltage Rating)
- JJ (GDI-30F) Material Available
- Screws, #2-56 X 7/32 Binder Head, Phil-Slot
- Terminals, Plated Brass
- 1-23 Poles
- 1/4" Centers
- Wire Range With Wire Binding Screw #18-#20 AWG – 5 Amps
- The Suitability Of These Devices For Greater Currents Shall Be Determined In The End-Use Application
- UL Recognized File No. E47811
- CSA Certified File No. LR19766
- CE

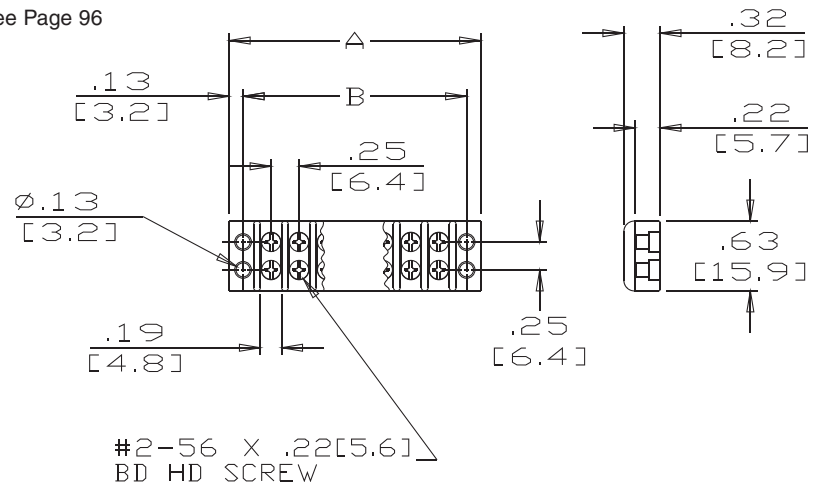
Catalog #	# of poles	Dimensions	
		A	B
410 GP 01	1	0.75	0.50
410 GP 02	2	1.00	0.75
410 GP 03	3	1.25	1.00
410 GP 04	4	1.50	1.25
410 GP 05	5	1.75	1.50
410 GP 06	6	2.00	1.75
410 GP 07	7	2.25	2.00
410 GP 08	8	2.50	2.25
410 GP 09	9	2.75	2.50
410 GP 10	10	3.00	2.75
410 GP 11	11	3.25	3.00
410 GP 12	12	3.50	3.25

Catalog #	# of poles	Dimensions	
		A	B
410 GP 13	13	3.75	3.50
410 GP 14	14	4.00	3.75
410 GP 15	15	4.25	4.00
410 GP 16	16	4.50	4.25
410 GP 17	17	4.75	4.50
410 GP 18	18	5.00	4.75
410 GP 19	19	5.25	5.00
410 GP 20	20	5.50	5.25
410 GP 21	21	5.75	5.50
410 GP 22	22	6.00	5.75
410 GP 23	23	6.25	6.00

* Voltage Based on Class B Requirements
MM = Dim X 25.4

Hardware Options: (Hardware options may affect ratings - consult factory)

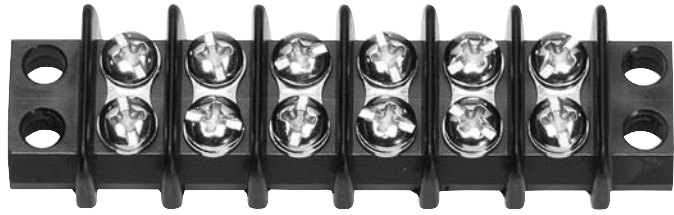
- J 410 = Line To Line Jumper See Page 96
 Y = Feed Thru Solder (.312)
 1921 = Printed Circuit Pin (.109)



Double Row Terminal Blocks

Kulka® 600 GP Series

300 Volts



Specifications:

- Base, Phenolic, 150° C
- JJ (GDI-30F) Material Available
- Open Back Design (Insulator Strip Required for Voltage Rating)
- Screws, #5-40 Binder Head, Phil-Slot
- Terminals, Plated Brass
- 1-22 Poles
- The Suitability Of These Devices For Greater Currents Shall Be Determined In The End-Use Application
- 3/8" Centers
- Wire Range With Wire Binding Screw #12-#22 AWG – 15 Amps
- UL Recognized File No. E47811
- CSA Certified File No. LR19766
- CE

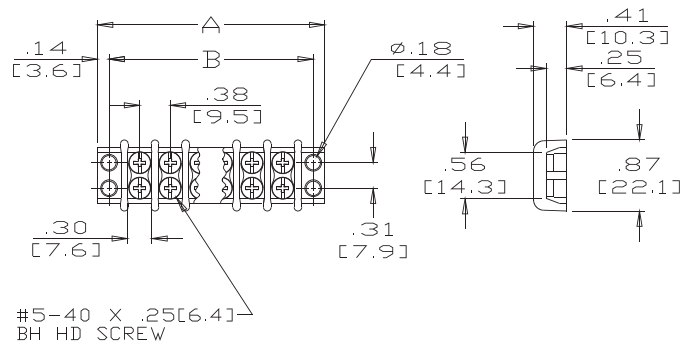
Catalog #	# of poles	Dimensions	
		A	B
600 GP 01	1	1.03	0.75
600 GP 02	2	1.41	1.13
600 GP 03	3	1.78	1.50
600 GP 04	4	2.16	1.88
600 GP 05	5	2.53	2.25
600 GP 06	6	2.91	2.63
600 GP 07	7	3.28	3.00
600 GP 08	8	3.66	3.38
600 GP 09	9	4.03	3.75
600 GP 10	10	4.41	4.13
600 GP 11	11	4.78	4.50

Catalog #	# of poles	Dimensions	
		A	B
600 GP 12	12	5.16	4.88
600 GP 13	13	5.53	5.25
600 GP 14	14	5.91	5.63
600 GP 15	15	6.28	6.00
600 GP 16	16	6.66	6.38
600 GP 17	17	7.03	6.75
600 GP 18	18	7.41	7.13
600 GP 19	19	7.78	7.50
600 GP 20	20	8.16	7.88
600 GP 21	21	8.53	8.25
600 GP 22	22	8.91	8.63

Top Mounted Hardware is .187" Wide
MM = Dim X 25.4

Hardware Options: (Hardware options may affect ratings - consult factory)

KT 19	=	Full Quick Connect (0° flat)	See Page 93
KT 20	=	Full Quick Connect (45° Bend)	See Page 93
KT 21	=	Full Quick Connect (90° Bend)	See Page 93
ST	=	Full Solder	See Page 94
J 600	=	Line to Line Jumper	See Page 96
600 RJ(S)	=	Multiple Position Jumper	See Page 96
3/4 ST	=	Half Solder	See Page 94
KT 25	=	Half Quick Connect (0° Flat)	See Page 93
KT 26	=	Half Quick Connect (45° Bend)	See Page 93
KT 27	=	Half Quick Connect (90° Bend)	See Page 93
Y	=	Feed Thru Solder (.312)	See Page 95
YSY	=	Feed Thru Solder (.500)	See Page 95
Z	=	Lug Over the Side (.625)	See Page 95
2004	=	Feed Thru Solder	See Page 98



Double Row Terminal Blocks

Kulka® 600A/800A GP Series

300 Volts



Specifications:

- Base, Phenolic, 150° C
- JJ (GDI-30F) Material Available
- Open Back Design (Insulator Strip Required for Voltage Rating)
- Screws, #6-32 Binder Head, Phil-Slot
- Terminals, Plated Brass
- 1-22 Poles
- The Suitability Of These Devices For Greater Currents Shall Be Determined In The End-Use Application
- 3/8" Centers
- Wire Range With Wire Binding Screw #12-#22 AWG – 15 Amps
- UL Recognized File No. E47811
- CSA Certified File No. LR19766
- 800A Series (Riveted KTs)
- C E

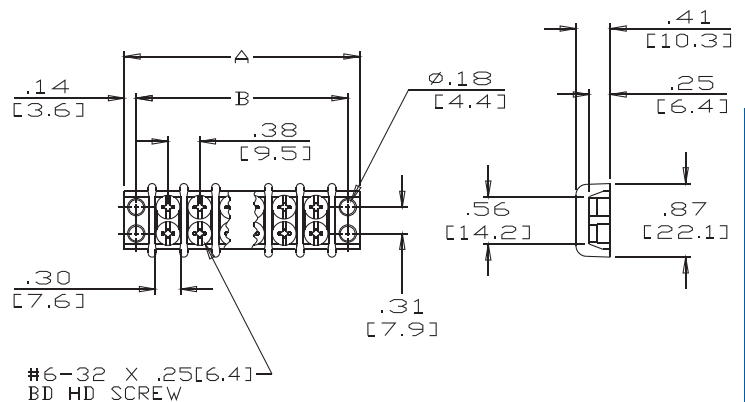
Catalog #	# of poles	Dimensions	
		A	B
600A GP 01	1	1.03	0.75
600A GP 02	2	1.41	1.13
600A GP 03	3	1.78	1.50
600A GP 04	4	2.16	1.88
600A GP 05	5	2.53	2.25
600A GP 06	6	2.91	2.63
600A GP 07	7	3.28	3.00
600A GP 08	8	3.66	3.38
600A GP 09	9	4.03	3.75
600A GP 10	10	4.41	4.13
600A GP 11	11	4.78	4.50

Catalog #	# of poles	Dimensions	
		A	B
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
600A GP 20	20	8.16	7.88
600A GP 21	21	8.53	8.25
600A GP 22	22	8.91	8.63

Top Mounted Hardware is .187" Wide
MM = Dim X 25.4

Hardware Options: (Hardware options may affect ratings - consult factory)

KT 19	= Full Quick Connect (0° flat)	See Page 93
KT 20	= Full Quick Connect (45° Bend)	See Page 93
KT 21	= Full Quick Connect (90° Bend)	See Page 93
ST	= Full Solder	See Page 94
J 600	= Line to Line Jumper	See Page 96
600 RJ(S)	= Multiple Position Jumper	See Page 96
3/4 ST	= Half Solder	See Page 94
KT 25	= Half Quick Connect (0° Flat)	See Page 93
KT 26	= Half Quick Connect (45° Bend)	See Page 93
KT 27	= Half Quick Connect (90° Bend)	See Page 93
3865	= Wire Clamp Screw	See Page 96
Y	= Feed Thru Solder (.312)	
YSY	= Feed Thru Solder (.500)	
Z	= Lug Over the Side (.625)	
2002	= Stud	See Page 98



Double Row Terminal Blocks

Kulka® 601/801 GP Series

300 Volts



Specifications:

- Base, General Purpose Phenolic, 150° C
- JJ (GDI-30F) Material Available
- Open Back Design (Insulator Strip Required for Voltage Rating)
- Screws, #6-32 Binder Head, Phil-Slot
- Terminals, Plated Brass
- 1-23 Poles
- 7/16" Centers
- Wire Range With Wire Binding Screw #12-#22 AWG – 20 Amps
- Will Accommodate Lugs For Wire Sizes #10-#16 AWG – 30 Amps
- The Suitability Of These Devices For Greater Currents Shall Be Determined In The End-Use Application
- UL Recognized File No. E47811
- CSA Certified File No. LR19766
- 801 Series (Riveted KT's)
- CE

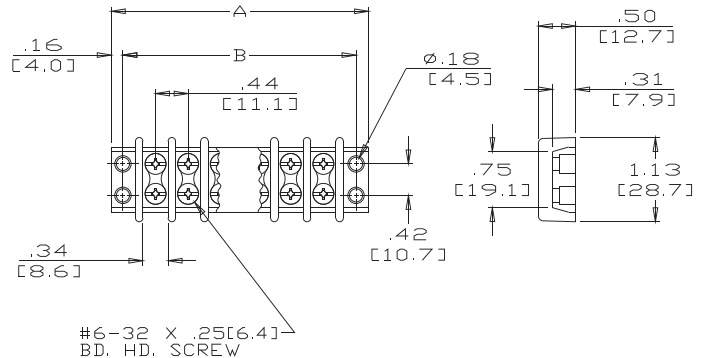
Catalog #	# of poles	Dimensions	
		A	B
601 GP 01	1	1.19	0.88
601 GP 02	2	1.62	1.31
601 GP 03	3	2.06	1.75
601 GP 04	4	2.50	2.19
601 GP 05	5	2.94	2.63
601 GP 06	6	3.37	3.06
601 GP 07	7	3.81	3.50
601 GP 08	8	4.25	3.94
601 GP 09	9	4.69	4.38
601 GP 10	10	5.12	4.81
601 GP 11	11	5.56	5.25
601 GP 12	12	6.00	5.69

Catalog #	# of poles	Dimensions	
		A	B
601 GP 13	13	6.44	6.13
601 GP 14	14	6.87	6.56
601 GP 15	15	7.31	7.00
601 GP 16	16	7.75	7.44
601 GP 17	17	8.19	7.88
601 GP 18	18	8.62	8.31
601 GP 19	19	9.06	8.75
601 GP 20	20	9.50	9.19
601 GP 21	21	9.94	9.63
601 GP 22	22	10.37	10.06
601 GP 23	23	10.81	10.50

Top Mounted Hardware is .250" Wide
MM = Dim X 25.4

Hardware Options: (Hardware options may affect ratings - consult factory)

KT 37	=	Full Quick Connect (0° flat)	See Page 93
KT 38	=	Full Quick Connect (45° Bend)	See Page 93
KT 39	=	Full Quick Connect (90° Bend)	See Page 93
ST	=	Full Solder	See Page 94
J 601	=	Line to Line Jumper	See Page 96
601 RJ(S)	=	Multiple Position Jumper	See Page 96
3/4 ST	=	Half Solder	See Page 94
KT 43	=	Half Quick Connect (0° Flat)	See Page 93
KT 44	=	Half Quick Connect (45° Bend)	See Page 93
KT 45	=	Half Quick Connect (90° Bend)	See Page 93
3765	=	Wire Clamp Screw	See Page 96
Y	=	Feed Thru Solder (.422)	See Page 95
YSY	=	Feed Thru Solder (.687)	See Page 95
2102	=	Stud	See Page 98
2104	=	Feed Thru Solder	See Page 98
2108	=	Individual Screw Terminals	See Page 98



Double Row Terminal Blocks

Kulka® 602/802 GP Series

300 Volts

Specifications:

- Base, General Purpose Phenolic, 150° C
- JJ (GDI-30F) Material Available
- Open Back Design (Insulator Strip Required for Voltage Rating)
- Screws, #8-32 Binder Head, Phil-Slot
- Terminals, Plated Brass
- 1-26 Poles
- 9/16" Centers
- Wire Range With Wire Binding Screw #12-#14 AWG – 30 Amps
- The Suitability Of These Devices For Greater Currents Shall Be Determined In The End-Use Application
- UL Recognized File No. E47811
- CSA Certified File No. LR19766
- 802 Series (Riveted KT's)
- CE



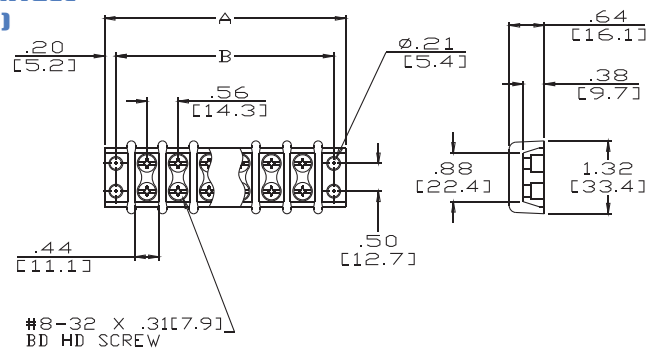
Catalog #	# of poles	Dimensions	
		A	B
602 GP 01	1	1.54	1.13
602 GP 02	2	2.10	1.69
602 GP 03	3	2.66	2.25
602 GP 04	4	3.22	2.81
602 GP 05	5	3.79	3.38
602 GP 06	6	4.35	3.94
602 GP 07	7	4.91	4.50
602 GP 08	8	5.47	5.06
602 GP 09	9	6.04	5.63
602 GP 10	10	6.60	6.19
602 GP 11	11	7.16	6.75
602 GP 12	12	7.72	7.31
602 GP 13	13	8.29	7.88

Catalog #	# of poles	Dimensions	
		A	B
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	17	10.54	10.13
602 GP 18	18	11.10	10.69
602 GP 19	19	11.66	11.25
602 GP 20	20	12.22	11.81
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
602 GP 25	25	15.04	14.63
602 GP 26	26	15.60	15.19

Top Mounted Hardware is .250" Wide
MM = Dim X 25.4

Hardware Options: (Hardware options may affect ratings - consult factory)

KT 55	=	Full Quick Connect (0° flat)	See Page 93
KT 56	=	Full Quick Connect (45° Bend)	See Page 93
KT 57	=	Full Quick Connect (90° Bend)	See Page 93
ST	=	Full Solder	See Page 94
J602	=	Line to Line Jumper	See Page 96
3/4 ST	=	Half Solder	See Page 94
KT 61	=	Half Quick Connect (0° Flat)	See Page 93
KT 62	=	Half Quick Connect (45° Bend)	See Page 93
KT 63	=	Half Quick Connect (90° Bend)	See Page 93
3786	=	Wire Clamp Screw	See Page 96
Y	=	Feed Thru Solder (.500)	See Page 95
YSY	=	Feed Thru Solder (.672)	See Page 95
Z	=	Lug Over the Side (.609)	See Page 95
2202	=	Stud	See Page 98



Double Row Terminal Blocks

Kulka® 603 GP Series

600 Volts

Specifications:

- Base, General Purpose Phenolic, 150° C
- JJ (GDI-30F) Material Available
- Open Back Design (Insulator Strip Required for Voltage Rating)
- Screws, #10-32 Binder Head, Phil-Slot
- Terminals, Plated Brass
- 1-12 Poles
- 11/16" Centers
- Wire Range With Wire Binding Screw #10-#12 AWG – 50 Amps
- Will Accommodate Lugs For Wire Sizes #6-#16 AWG – 65 Amps
- The Suitability Of These Devices For Greater Currents Shall Be Determined In The End-Use Application
- UL Recognized File No. E47811
- CSA Certified File No. LR19766
- CE

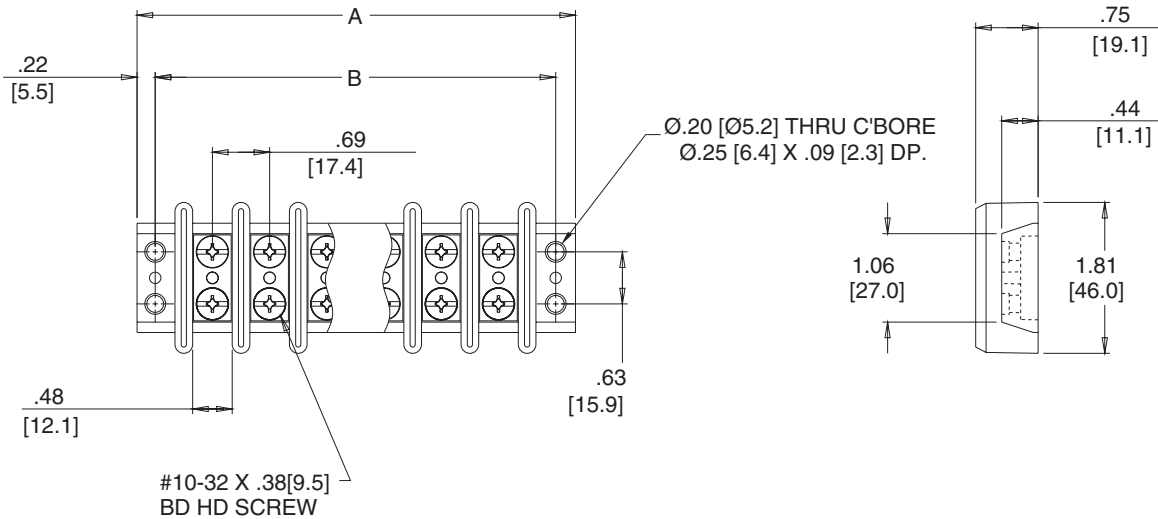


Hardware Options: (Hardware options may affect ratings - consult factory)

J 603	=	Line to Line Jumper	See Page 96
Y	=	Feed Thru Solder (.60)	See Page 95
2302	=	Stud	See Page 98

Catalog #	# of poles	Dimensions	
		A	B
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



Double Row Terminal Blocks

Kulka® 604 GP Series

600 Volts



Specifications:

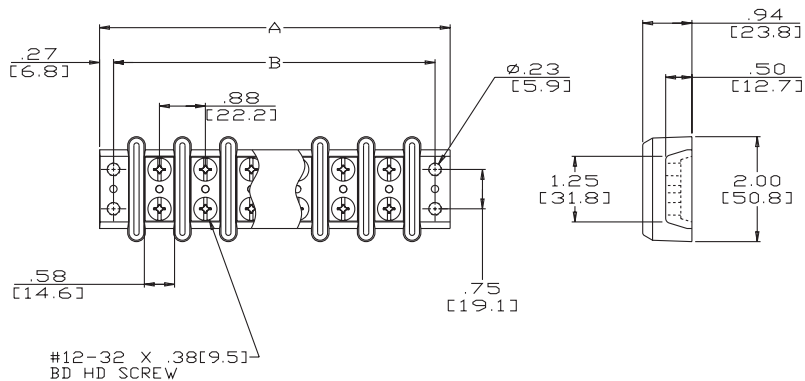
- Base, General Purpose Phenolic, 150° C
- JJ (GDI-30F) Material Available
- Open Back Design (Insulator Strip Required for Voltage Rating)
- Screws, #12-32 Binder Head, Phil-Slot
- Terminals, Plated Brass
- 1-8 Poles
- 7/8" Centers
- Wire Range With Wire Binding Screw #4-#12 AWG – 70 Amps
- The Suitability Of These Devices For Greater Currents Shall Be Determined In The End-Use Application
- UL Recognized File No. E47811
- CSA Certified File No. LR19766
- C E

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

MM = Dim X 25.4

Hardware Options: (Hardware options may affect ratings - consult factory)

- 2402 = Stud 10 - 32 Brass (.43 H) Nuts Included See Page 98
 J604 = Line to Line Jumper See Page 96



Single/Double Row Terminal Blocks

Double Row Terminal Blocks

Kulka® 605 GP Series

600 Volts



Specifications:

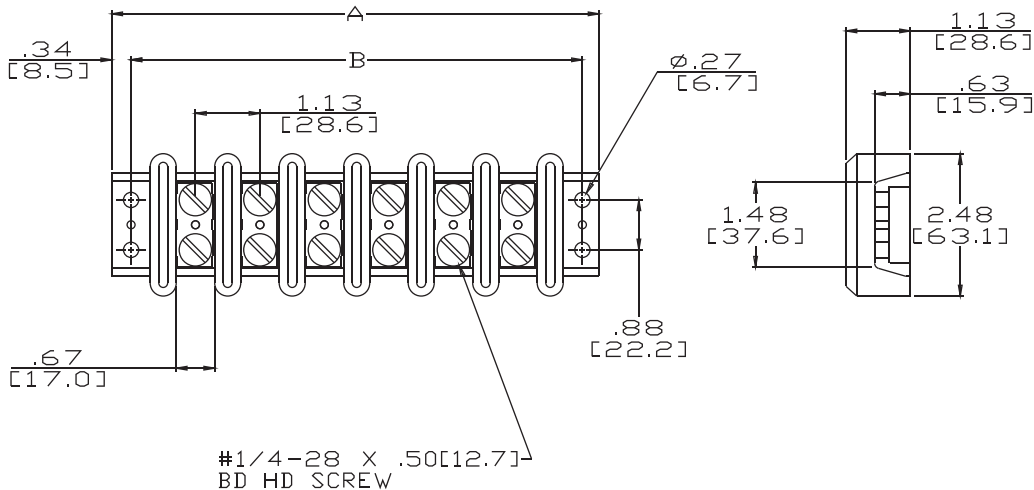
- Base, General Purpose Phenolic, 150° C
- JJ (GDI-30F) Material Available
- Open Back Design (Insulator Strip Required for Voltage Rating)
- Screws, #1/4-28 Binder Head, Slotted
- Terminals, Plated Brass
- 1-6 Poles
- 1-1/8" Centers
- Wire Range With Wire Binding Screw #2-#12 AWG – 90 Amps
- The Suitability Of These Devices For Greater Currents Shall Be Determined In The End-Use Application
- UL Recognized File No. E47811
- CSA Certified File No. LR19766
- CE

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

MM = Dim X 25.4

Hardware Options: (Hardware options may affect ratings - consult factory)

- 2502 = Stud 1/4 - 28 Brass (.750 H) Nuts Included See Page 98
 J605 = Line to Line Jumper See Page 96



Double Row Terminal Blocks

621 RZ Series

600 Volts



Specifications:

- Base, Thermoplastic, 110° C (U.L. RTI w/o IMPACT)
- Closed Back Design
- Screws, #6-32 Binder Head, Phil-Slot
- Terminals, Plated Brass
- 1-30 Poles
- 7/16" Centers
- The Suitability Of These Devices For Greater Currents Shall Be Determined In The End-Use Application
- Wire Range With Wire Binding Screw #12-#22 AWG – 20 Amps
- Wire Range With Sems Pressure Screw #12-#22 AWG Stranded Copper Wire Only – 20 Amps
- UL Recognized File No. E62806
- CSA Certified File No. LR19766
- CE

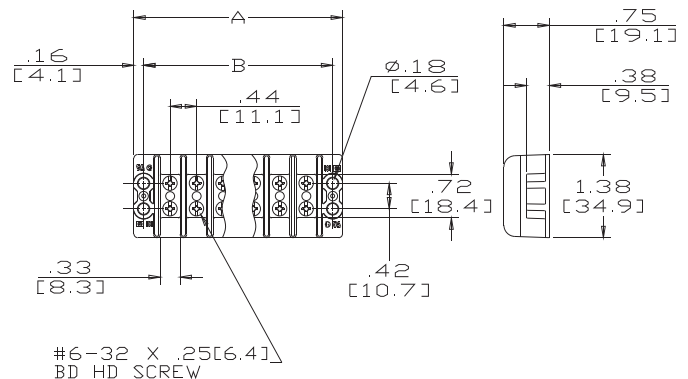
Catalog #	# of poles	Dimensions	
		A	B
621 RZ 01	1	1.19	0.88
621 RZ 02	2	1.62	1.31
621 RZ 03	3	2.06	1.75
621 RZ 04	4	2.50	2.19
621 RZ 05	5	2.94	2.63
621 RZ 06	6	3.37	3.06
621 RZ 07	7	3.81	3.50
621 RZ 08	8	4.25	3.94
621 RZ 09	9	4.69	4.38
621 RZ 10	10	5.12	4.81
621 RZ 11	11	5.56	5.25
621 RZ 12	12	6.00	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

Catalog #	# of poles	Dimensions	
		A	B
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

Top Mounted Hardware is .250" Wide
MM = Dim X 25.4

Hardware Options: (Hardware options may affect ratings - consult factory)

KT 37	= Full Quick Connect (0° flat)	See Page 93
KT 38	= Full Quick Connect (45° Bend)	See Page 93
KT 39	= Full Quick Connect (90° Bend)	See Page 93
ST	= Full Solder	See Page 94
LL 200 HB	= Line to Line Jumper	See Page 96
601 RJ(S)	= Multiple Position Jumper	See Page 96
3/4 ST	= Half Solder	See Page 94
KT 43	= Half Quick Connect (0° Flat)	See Page 93
KT 44	= Half Quick Connect (45° Bend)	See Page 93
KT 45	= Half Quick Connect (90° Bend)	See Page 93
3765	= Sems Pressure Saddle Screw	See Page 96
3767	= Sems Pressure Saddle Screw with External Tooth Lock Washer	



Double Row Terminal Blocks

670A RZ Series

300 Volts



Specifications:

- Base, Thermoplastic, 130° C
- Closed Back Design
- Screws, #6-32 Binder Head, Phil-Slot
- Terminals, Plated Brass
- 1-30 Poles
- 3/8" Centers
- The Suitability Of These Devices For Greater Currents Shall Be Determined In The End-Use Application
- Wire Range With Wire Binding Screw #12-#22 AWG – 20 Amps
- Wire Range With Sems Pressure Screw #14-#22 AWG Stranded Or Solid Wire (Cat. Designation 3865)
- UL Recognized File No. E47811
- CSA Certified File No. LR19766
CE

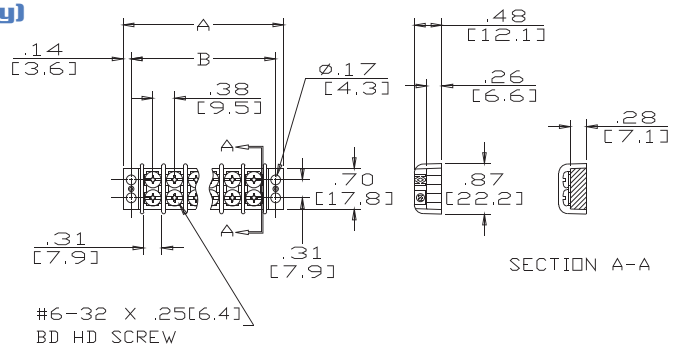
Catalog #	# of poles	Dimensions	
		A	B
670A RZ 01	1	1.03	0.75
670A RZ 02	2	1.41	1.13
670A RZ 03	3	1.78	1.50
670A RZ 04	4	2.16	1.88
670A RZ 05	5	2.53	2.25
670A RZ 06	6	2.91	2.63
670A RZ 07	7	3.28	3.00
670A RZ 08	8	3.66	3.38
670A RZ 09	9	4.03	3.75
670A RZ 10	10	4.41	4.13
670A RZ 11	11	4.78	4.50
670A RZ 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

Catalog #	# of poles	Dimensions	
		A	B
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

Top Mounted Hardware is .187" Wide
MM = Dim X 25.4

Hardware Options: (Hardware options may affect ratings - consult factory)

KT 19	=	Full Quick Connect (0° flat)	See Page 93
KT 20	=	Full Quick Connect (45° Bend)	See Page 93
KT 21	=	Full Quick Connect (90° Bend)	See Page 93
ST	=	Full Solder	See Page 94
J 600	=	Line to Line Jumper	See Page 96
600 RJ(S)	=	Multiple Position Jumper	See Page 96
3/4 ST	=	Half Solder	See Page 94
KT 25	=	Half Quick Connect (0° Flat)	See Page 93
KT 26	=	Half Quick Connect (45° Bend)	See Page 93
KT 27	=	Half Quick Connect (90° Bend)	See Page 93
3865	=	Sems Pressure Saddle Screw	See Page 96
Y(L)	=	Feed Thru Solder (.312)	See Page 95
LWW	=	Feed Thru Wire Wrap (.593)	
YSY	=	Feed Thru Solder (.500)	See Page 95



Double Row Terminal Blocks

671 RZ Series

300 Volts



Specifications:

- Base, Thermoplastic, 110° C (U.L. RTI w/o IMPACT)
- Closed Back Design
- Screws, #6-32 Binder Head, Phil-Slot
- Terminals, Plated Brass
- 1-30 Poles
- 7/16" Centers
- The Suitability Of These Devices For Greater Currents Shall Be Determined In The End-Use Application
- Wire Range With Wire Binding Screw #12-#22 AWG – 20 Amps
- Wire Range With Sems Pressure Screw #12-#22 AWG Stranded Copper Wire Only – 20 Amps
- Will Accommodate Lugs For Wire Sizes #10-#16 AWG – 30 Amps
- UL Recognized File No. E62806
- CSA Certified File No. LR19766
- CE

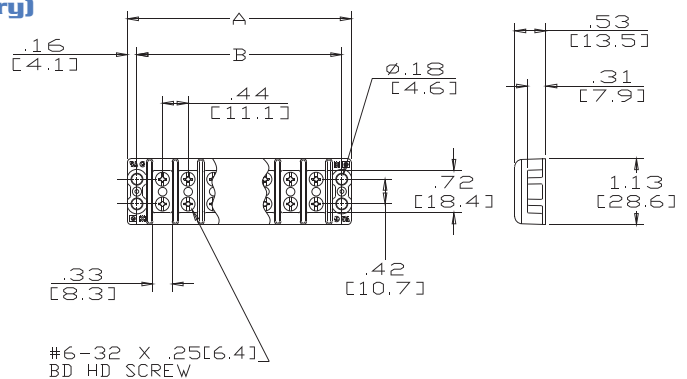
Catalog #	# of poles	Dimensions	
		A	B
671 RZ 01	1	1.19	0.88
671 RZ 02	2	1.62	1.31
671 RZ 03	3	2.06	1.75
671 RZ 04	4	2.50	2.19
671 RZ 05	5	2.94	2.63
671 RZ 06	6	3.37	3.06
671 RZ 07	7	3.81	3.50
671 RZ 08	8	4.25	3.94
671 RZ 09	9	4.69	4.38
671 RZ 10	10	5.12	4.81
671 RZ 11	11	5.56	5.25
671 RZ 12	12	6.00	5.69
671 RZ 13	13	6.44	6.13
671 RZ 14	14	6.87	6.56
671 RZ 15	15	7.31	7.00

Catalog #	# of poles	Dimensions	
		A	B
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	19	9.06	8.75
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	30	13.87	13.56

Top Mounted Hardware is .250" Wide
MM = Dim X 25.4

Hardware Options: (Hardware options may affect ratings - consult factory)

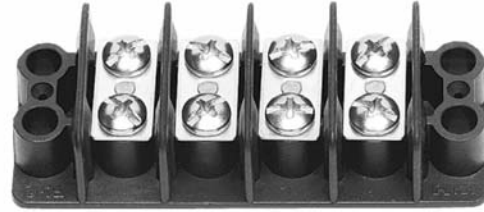
KT 37	=	Full Quick Connect (0° flat)	See Page 93
KT 38	=	Full Quick Connect (45° Bend)	See Page 93
KT 39	=	Full Quick Connect (90° Bend)	See Page 93
ST	=	Full Solder	See Page 94
J601	=	Line to Line Jumper	See Page 96
601 RJ(S)	=	Multiple Position Jumper	See Page 96
3/4 ST	=	Half Solder	See Page 94
KT 43	=	Half Quick Connect (0° Flat)	See Page 93
KT 44	=	Half Quick Connect (45° Bend)	See Page 93
KT 45	=	Half Quick Connect (90° Bend)	See Page 93
3765	=	Sems Pressure Saddle Screw	See Page 96
3767	=	Sems Pressure Saddle Screw with External Tooth Lock Washer	



Double Row Terminal Blocks

672 RZ Series

600 Volts



Specifications:

- Base, Thermoplastic, 110° C (U.L. RTI w/o IMPACT)
- Closed Back Design
- Screws, #8-32 Binder Head, Phil-Slot
- Terminals, Plated Brass
- 1-24 Poles
- 9/16" Centers
- Wire Range With Wire Binding Screw #10-#14 AWG – 30 Amps
- Wire Range With Sems Pressure Screw #10-#22 AWG Stranded Copper Wire Only – 30 Amps
- The Suitability Of These Devices For Greater Currents Shall Be Determined In The End-Use Application
- UL Recognized File No. E47811
- CSA Certified File No. LR19766
- CE

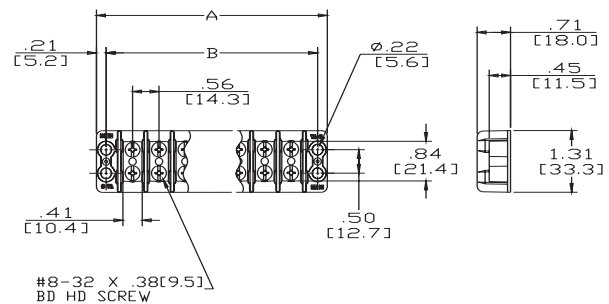
Catalog #	# of poles	Dimensions	
		A	B
672 RZ 01	1	1.54	1.13
672 RZ 02	2	2.10	1.69
672 RZ 03	3	2.66	2.25
672 RZ 04	4	3.22	2.81
672 RZ 05	5	3.79	3.38
672 RZ 06	6	4.35	3.94
672 RZ 07	7	4.91	4.50
672 RZ 08	8	5.47	5.06
672 RZ 09	9	6.04	5.63
672 RZ 10	10	6.60	6.19
672 RZ 11	11	7.16	6.75
672 RZ 12	12	7.72	7.31

Catalog #	# of poles	Dimensions	
		A	B
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
671 RZ 22	22	13.35	12.94
671 RZ 23	23	13.91	13.50
671 RZ 24	24	14.47	14.06

Top Mounted Hardware is .250" Wide
MM = Dim X 25.4

Hardware Options: (Hardware options may affect ratings - consult factory)

KT 55	= Full Quick Connect (0° flat)	See Page 93
KT 56	= Full Quick Connect (45° Bend)	See Page 93
KT 57	= Full Quick Connect (90° Bend)	See Page 93
ST	= Full Solder	See Page 94
J 602	= Line to Line Jumper	See Page 96
3/4 ST	= Half Solder	See Page 94
KT 61	= Half Quick Connect (0° Flat)	See Page 93
KT 62	= Half Quick Connect (45° Bend)	See Page 93
KT 63	= Half Quick Connect (90° Bend)	See Page 93
3786	= Sems Pressure Saddle Screw	See Page 96
3787	= Sems Pressure Saddle Screw with External Tooth Lock Washer	



Kliptite (Quick Connect)

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° and 90° bends; one side or two side.

Single Row:

Screw Construction	Rivet Construction	Tab Width	Tab Thickness
411	—	.110	.020
599	799	.187	.020
699	899	.250	.032
812	912	.250	.032
2590 ¹	—	.187	.020
1690 ²	—	.250	.032
2690 ³	—	.250	.032

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

Double Row:

Screw Construction	Rivet Construction	Tab Width	Tab Thickness
100, 670, 670A, 670ARZ ⁴	—	.187	.020
200, 671, 671RZ, 200HB, 621RZ ⁵	—	.250	.032
300, 672, 672RZ ⁶	—	.250	.032
600, 600A	800A	.187	.020
601	801	.250	.032
602	802	.250	.032
603	—	—	—

- 4) 100, 670, 670A, 670ARZ Series use the 600, 600A Kliptites.
- 5) 200, 671, 671RZ, 200 HB, 621RZ Series use the 601 Kliptites.
- 6) 300, 672, 672RZ Series use same as 602 Kliptites.

Kliptite Quick Connect

Single Row

411 Series

Screw Construction
Tab Width .110
Tab Thickness .020

599 Series

Screw Construction
Tab Width .187
Tab Thickness .020

699 Series

Screw Construction
Tab Width .250
Tab Thickness .032

812 Series

Screw Construction
Tab Width .250
Tab Thickness .032

799 Series

Rivet Construction
Tab Width .187
Tab Thickness .020
Specifications - see
page 65 (599)

899 Series

Rivet Construction
Tab Width .250
Tab Thickness .032
Specifications - see
page 66 (699)

912 Series

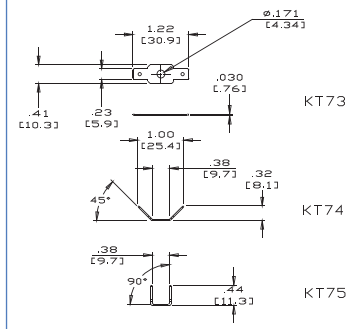
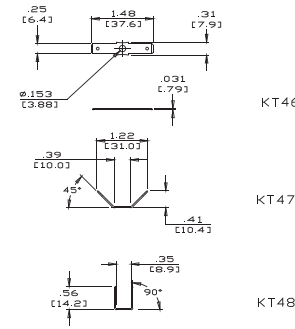
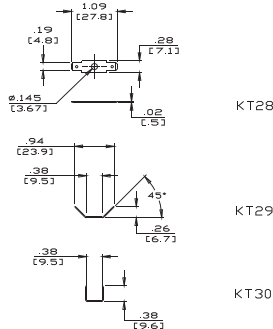
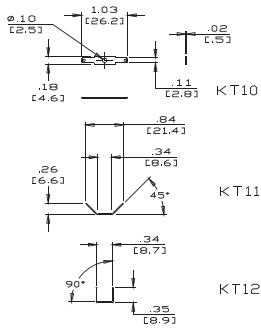
Rivet Construction
Tab Width .250
Tab Thickness .032
Specifications - see
page 67 (812)

TWO SIDE TABS

TWO SIDE TABS

TWO SIDE TABS

TWO SIDE TABS

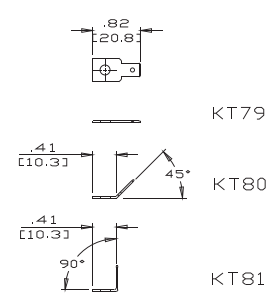
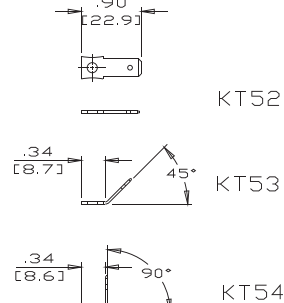
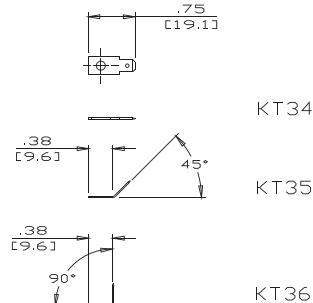
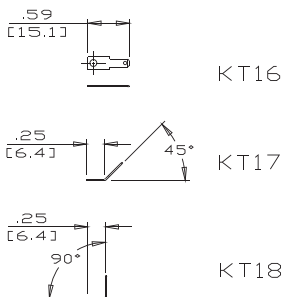


ONE SIDE TABS

ONE SIDE TABS

ONE SIDE TABS

ONE SIDE TABS



Material: Brass
Finish: TIN

Kliptite Quick Connect Double Row

<p>100, 600, 600A 670, 670A, 670A RZ Series</p> <p>Screw Construction Tab Width .187 Tab Thickness .020</p> <p>800A Series</p> <p>Rivet Construction Tab Width .187 Tab Thickness .020 Specifications - see page 81 (600A)</p>	<p>601, 200, 200 HB 621, 671 Series</p> <p>Screw Construction Tab Width .250 Tab Thickness .032</p> <p>801 Series</p> <p>Rivet Construction Tab Width .250 Tab Thickness .032 Specifications - see page 82 (601)</p>	<p>300 Series 602, 672 Series</p> <p>Screw Construction Tab Width .250 Tab Thickness .032</p> <p>802 Series</p> <p>Rivet Construction Tab Width .250 Tab Thickness .032 Specifications - see page 83 (602)</p>	<p>603 Series</p> <p>Screw Construction Tab Width .250 Tab Thickness .032</p>
<p>TWO SIDE TABS</p>	<p>TWO SIDE TABS</p>	<p>TWO SIDE TABS</p>	<p>TWO SIDE TABS</p>
<p>KT19</p> <p>KT20</p> <p>KT21</p>	<p>KT37</p> <p>KT38</p> <p>KT39</p>	<p>KT55</p> <p>KT56</p> <p>KT57</p>	<p>KT67</p> <p>KT68</p> <p>KT69</p>
<p>ONE SIDE TABS</p>	<p>ONE SIDE TABS</p>	<p>ONE SIDE TABS</p>	<p>ONE SIDE TABS</p>
<p>KT25</p> <p>KT26</p> <p>KT27</p>	<p>KT43</p> <p>KT44</p> <p>KT45</p>	<p>KT61</p> <p>KT62</p> <p>KT63</p>	<p>KT64</p> <p>KT65</p> <p>KT66</p>

Material: Brass
Finish: TIN

Solder Terminal Lugs: ST & 3/4 ST Types

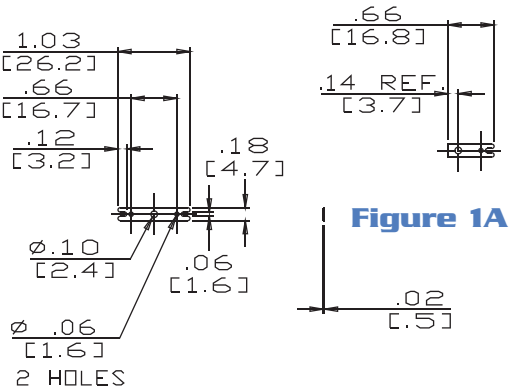


Figure 1

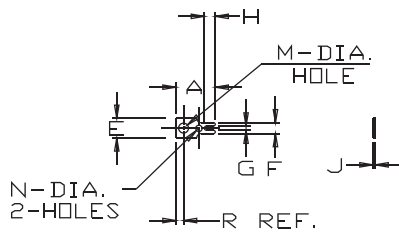


Figure 2

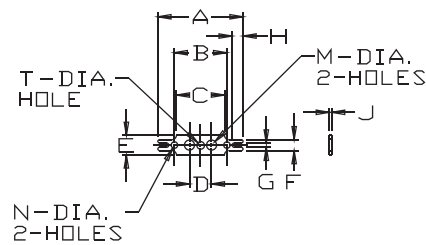


Figure 3



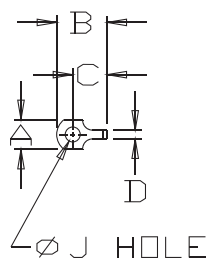
Figure 3A

	Figure	A	B	C	D	E	F	G	H	J	M	N	R	T	ALSO USED ON	
411ST		FIGURE 1														
411-3/4ST		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	
600ST	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, 670A	
600-3/4ST	FIG 3A	0.92	--	--									0.15	--		
601ST	FIG 3	1.58	0.94	0.84		0.42	0.31	0.21	0.06	0.21	0.036	0.148	0.125	--	200 HB, 621RZ	
601-3/4ST	FIG 3A	1.17	--	--									0.17	--		
602ST	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	
602-3/4ST	FIG 3A	1.37	--	--									0.20	--		
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	--	

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

MM = Dim X 25.4
ST = (S)
3/4 ST = (HS)

Solder Terminal Lugs: Y, YSY & Z Types Material: Brass Finish Electro-Tin Plated



Style "Y"
"YSY"

Figure 1

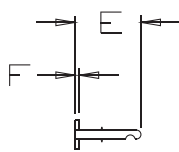
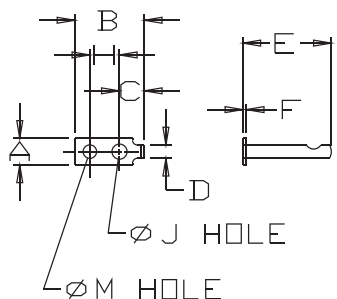


Figure 2
Same as Fig 1 except as shown



Figure 3
Same as Fig 1 except as shown



Style "Z"

Figure 4



Figure 5
Same as Fig 4 except as shown

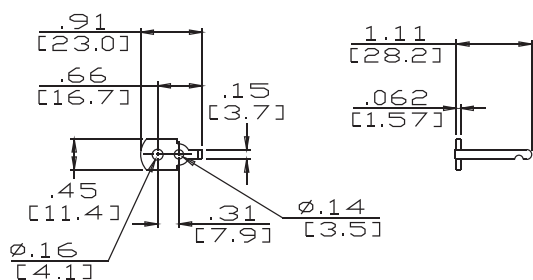
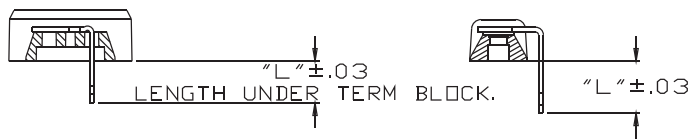


Figure 6



Style "Y"
"YSY"
"XY"

Detail R

Style "Z"

Note: For Factory Assembly only onto 603 Terminal Boards

Catalog #	Figure	A	B	C	D	E	F	H	J	M	L (see detail R)	also used on
599Z & 600Y	FIG 3	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 3					0.82					0.50	
600Z	FIG 4	0.31	0.73	0.25	0.140	0.94	0.036	0.31	0.160	0.143	0.62	670A RZ
699Z & 601Y	FIG 1		0.63	0.44	0.099	0.80		NA	0.148	NA	699Z=0.42, 601Y=0.42	
601YSY	FIG 2	0.75	0.52	0.125	1.07	0.95	0.49					
602Y	FIG 1	0.43	0.70		0.52	0.040	1.13	0.177	NA	812Z=0.64, 602YSY=0.67		
812Z & 602YSY	FIG 2	0.40	1.09	0.38	0.203		1.06			0.50	0.60	
602Z	FIG 5											
603Y		FIGURE 6 Note: for factory assembly only to 603 terminal block									0.60	

MM = Dim X 25.4

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

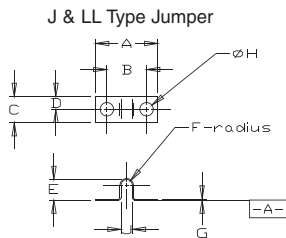
J & JS Jumpers

J 600 = LL 100

J 601 = LL 200

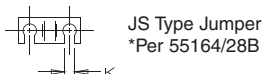
J 602 = LL 300

LL 200HB



Catalog #	A	B	C	D	E	F	G	H	J	K
J 410 (J411)	0.41	0.25	0.19	0.09	0.10	0.04	0.010	0.094	0.08	NA
J 600	0.62	0.38	0.25	0.12	0.16	0.04	0.015	0.156	0.08	NA
J 601	0.71	0.45	0.31	0.15	0.19	0.06	0.015	0.166	0.11	NA
J 602	0.91	0.56	0.37	0.18	0.27	0.08	0.015	0.190	0.16	NA
J 603	1.13	0.69	0.43	0.21	0.25	0.12	0.031	0.201	0.24	NA
J 604	1.38	0.88	0.50	0.25	0.35	0.15	0.035	0.234	0.32	NA
J 605	1.75	1.13	0.62	0.31	0.39	0.24	0.035	0.266	0.54	NA
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
LL 200HB	0.69	0.44	0.30	0.17	0.38	0.07	0.015	0.141	0.11	0.14

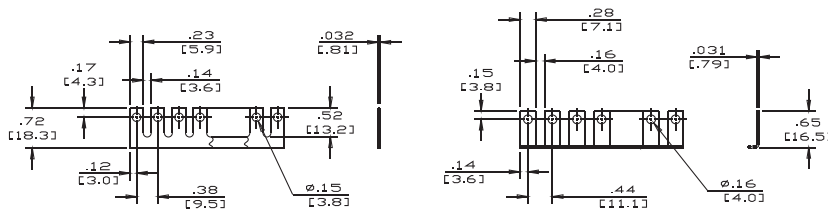
MM = Dim X 25.4



Material: Brass
Finish: Nickel Plate

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

RJ Type Jumpers

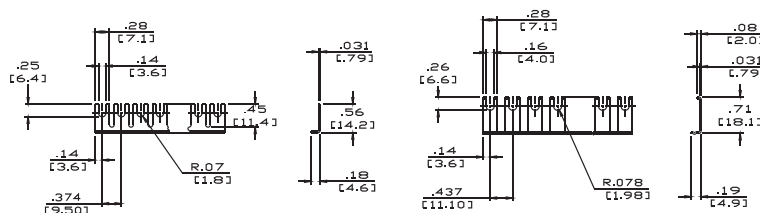


Material: Brass
Finish: Nickel Plate

Max. no. of sections = 24
600 RJ
Note: 670ARZ, 599 Series: Use 600 RJ

Max. no. of sections = 24
601 RJ

RJS Type Jumpers

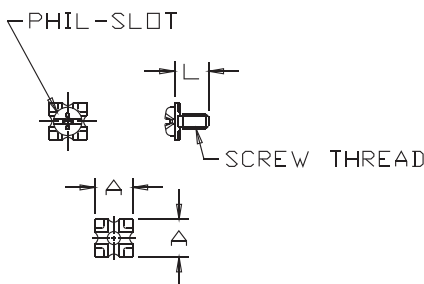


Material: Brass
Finish: Nickel Plate

Max. no. of sections = 24
600 RJS
Note: 670ARZ, 599 Series: Use 600 RJS

Max. no. of sections = 24
601 RJS

Wire Clamp

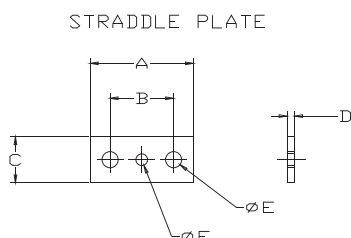


Catalog #	Material	Finish	Screw Thread	L	A
3786	Steel	Nickel	8-32 UNC	0.38	0.41
3765			6-32 UNC	0.31	0.33
3780	Brass	Nickel	8-32 UNC	0.38	0.41
3760			6-32 UNC	0.31	0.33
3860	Brass	Nickel	6-32 UNC	0.30	0.29
3865	Steel	Nickel	6-32 UNC	0.30	0.29

MM = Dim X 25.4

Note: "Termini-lox" washer or equal

Straddle Plate



CAT. NO.	A	B	C	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	PLATE
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

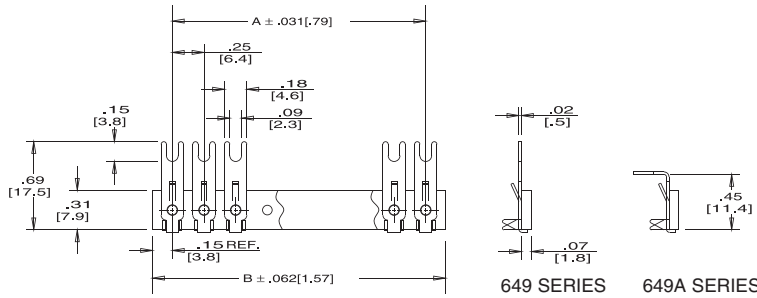
MM = Dim X 25.4

Kulka® Fanning Strips

Specifications:

- Terminals, Brass, Tin Plated
- Material: XP = Phenolic, Black
GME = Glass Cloth Melamine, Per MIL-M-14 Light BrownTerm

649 SERIES FOR 410 & 411 SERIES TERMINAL BLOCKS



Available in XP phenolic only.

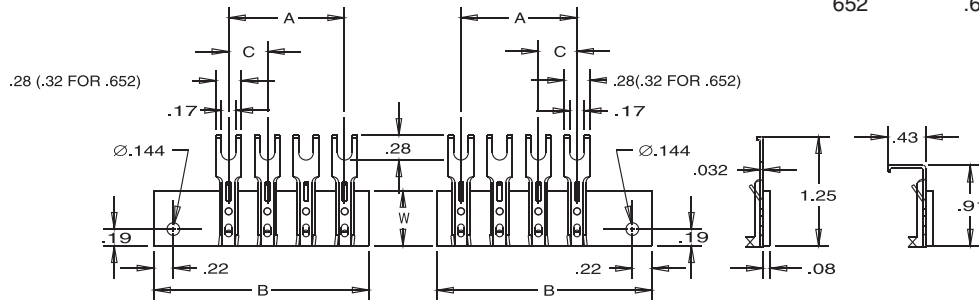
NO. OF TERM	A	B	NO. OF TERM	A	B
2	.250	.562	13	3.000	3.312
3	.500	.812	14	3.250	3.562
4	.750	1.062	15	3.500	3.812
5	1.000	1.312	16	3.750	4.062
6	1.250	1.562	17	4.000	4.312
7	2.000	1.812	18	4.250	4.562
8	2.250	2.062	19	4.500	4.812
9	2.500	2.312	20	4.750	5.062
10	2.750	2.562	21	5.000	5.312
11	3.000	2.812	22	5.250	5.562
12	3.250	3.062			

650 SERIES FOR 599, 600, 670A RZ SERIES TERMINAL BLOCKS

651 SERIES FOR 601 & 699 SERIES TERMINAL BLOCKS

652 SERIES FOR 602 & 812 SERIES TERMINAL BLOCKS

SERIES	W	SERIES
650	.50	650A
651	.63	651A
652	.63	652A



SERIES	C	NUMBER OF TERMINALS												
		2	3	4	5	6	7	8	9	10	11	12	13	
650	3	A	.375	.750	1.125	1.500	1.875	2.250	2.265	3.000	3.375	3.750	4.125	4.500
650A	8	B	1.435	1.810	2.185	2.560	2.935	3.310	3.685	4.060	4.435	4.810	5.185	5.560
651	7	A	.437	.875	1.312	1.750	2.187	2.625	3.062	3.500	3.937	4.375	4.812	5.250
651A	16	B	1.497	1.935	2.372	2.810	3.247	3.685	4.122	4.560	4.997	5.435	5.872	6.310
652	9	A	.562	1.125	1.687	2.250	2.812	3.375	3.937	4.500	5.062	5.625	6.187	6.750
652A	16	B	1.622	2.185	2.747	3.310	3.872	4.435	4.997	5.560	6.122	6.685	7.247	7.810

SERIES	C	NUMBER OF TERMINALS														
		14	15	16	17	18	19	20	21	22	23	24	25	26		
650	3	A	4.875	5.250	5.625	6.000	6.375	6.750	7.125	7.500	7.875	X	X	X	X	
650A	8	B	5.935	6.310	6.685	7.060	7.435	7.810	8.186	8.560	8.935	X	X	X	X	
651	7	A	5.687	6.125	6.562	7.000	7.437	7.875	8.312	8.750	9.187	9.625	X	X	X	
651A	16	B	6.747	7.185	7.622	8.060	8.497	8.935	9.372	9.810	10.247	10.685	X	X	X	
652	9	A	7.312	7.875	8.437	9.000	9.562	10.125	10.687	11.250	11.812	12.375	12.937	13.500	14.062	
652A	16	B	8.372	8.935	9.497	10.060	10.622	11.185	11.747	12.310	12.872	13.435	13.997	14.560	15.122	

ORDERING CODE EXAMPLE

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

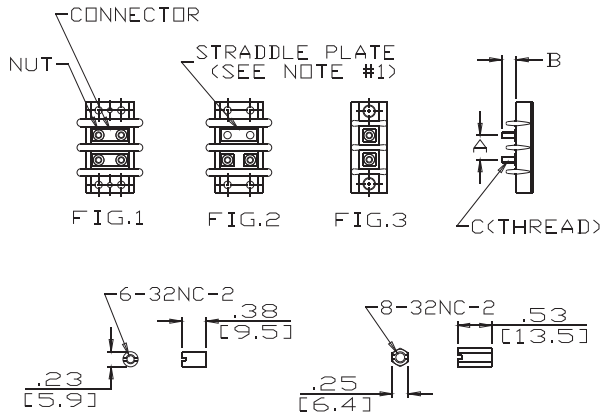
SERIES	MAT. CODE	ANGLE	NO. OF TERM
649	XP	A	5

- FOR MARKING STRIPS USE A "MS" PREFIX ON THE SERIES
- FOR INSULATOR STRIPS USE AN "IS" PREFIX ON THE SERIES

Kulka® Stud and Turret Terminal Blocks

Marathon Offers Kulka® Terminal Blocks with Stud and Turret Configurations:

Threaded Stud



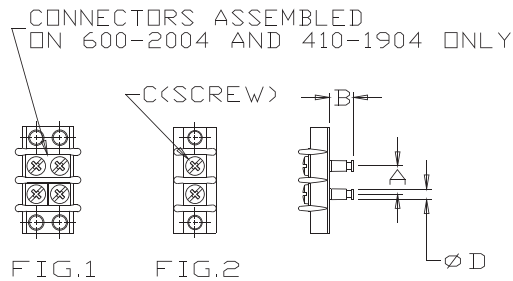
Catalog #	Figure	A	B	C
599 GP 2002 XX	FIG 3	0.38	0.34	6-32 NC
600A GP 2002 XX	FIG 2	0.38	0.38	6-32 NC
601 GP 2102 XX	FIG 2	0.44	0.44	6-32 NC
602 GP 2202 XX	FIG 2	0.56	0.50	8-32 NC
603 GP 2302 XX	FIG 1	0.69	0.50	10-32 NF
604 GP 2402 XX	FIG 1	0.88	0.44	10-32 NF
605 GP 2502 XX	FIG 1	1.13	0.75	1/4-28 NF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

XX - Number of Terminals

Note 1: Standard with block, but packed separately.

Note 2: 604 and 605 nuts are part of the assembly. Additional nuts (one per stud) are supplied in bulk.

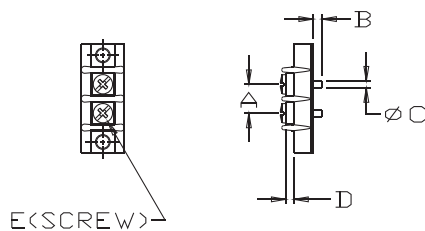
Screw Terminal with Feed-thru Solder Terminal



Catalog #	Figure	A	B	C	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

XX - Number of Terminals

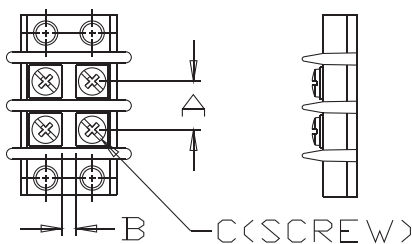
Screw Terminal with Solder Pin for Printed Circuit Board Connection



Catalog #	A	B	C	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

XX - Number of Terminals

Individual Screw Terminals



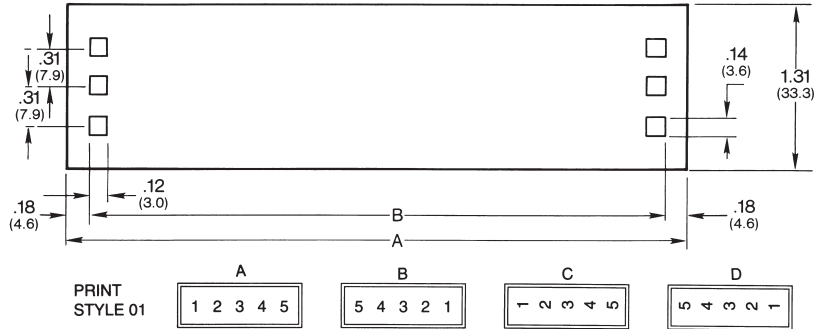
Catalog #	A	B	C
601 GP 2108 XX	0.44	0.09	6-32 NC X .25

XX - Number of Terminals

Double Row/Top Mounted Cover

Specifications:

- White Vinyl Material
- Two Nylon Spring Clip For Mounting
- Printed On Top, Bottom Or Center Line With Letters Or Numbers For Circuit Identification
- Printing Character Size Is 1/8 Inch



Series 1 = 100/670A GP , 600 GP, 600A, 670 ARZ

Number of Terminals	A	B
1	0.91	0.55
2	1.29	0.93
3	1.66	1.30
4	2.04	1.68
5	2.41	2.05
6	2.79	2.43
7	3.16	2.80
8	3.56	3.20
9	3.91	3.55
10	4.29	3.93
11	4.66	4.30
12	5.04	4.68
13	5.41	5.05
14	5.79	5.43
15	6.16	5.80
16	6.54	6.18
17	6.91	6.55
18	7.29	6.93
19	7.66	7.30
20	8.04	7.68
21	8.41	8.05
22	8.79	8.43
23	9.16	8.80
24	9.54	9.18
25	9.91	9.55
26	10.29	9.93
27	10.66	10.30
28	11.04	10.68
29	11.41	11.05
30	11.79	11.43
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
36	14.04	13.68

Series 2 = 200/671 GP, 200 HB, 601 GP, 621 RZ, 671 RZ

Number of Terminals	A	B
1	1.01	0.65
2	1.44	1.08
3	1.88	1.52
4	2.32	1.96
5	2.76	2.40
6	3.19	2.83
7	3.63	3.27
8	4.07	3.71
9	4.50	4.14
10	4.94	4.58
11	5.38	5.02
12	5.81	5.45
13	6.25	5.89
14	6.69	6.33
15	7.13	6.77
16	7.56	7.20
17	8.00	7.64
18	8.44	8.08
19	8.87	8.51
20	9.31	8.95
21	9.75	9.39
22	10.18	9.82
23	10.62	10.26
24	11.06	10.70
25	11.50	11.14
26	11.93	11.57
27	12.37	12.01
28	12.81	12.45
29	13.24	12.88
30	13.68	13.32

Series 3 = 300/672 GP 602 GP, 672 RZ

Number of Terminals	A	B
1	1.16	0.80
2	1.73	1.37
3	2.29	1.93
4	2.85	2.49
5	3.42	3.06
6	3.98	3.62
7	4.54	4.18
8	5.10	4.74
9	5.67	5.31
10	6.23	5.87
11	6.79	6.43
12	7.36	7.00
13	7.92	7.56
14	8.48	8.12
15	9.05	8.69
16	9.61	9.25
17	10.17	9.81
18	10.73	10.37
19	11.30	10.94
20	11.86	11.50
21	12.42	12.06
22	12.99	12.63
23	13.55	13.19
24	14.11	13.75



ORDERING CODE

COVER (WHITE) — **CW**

2

NO. OF TERMINALS — **05**

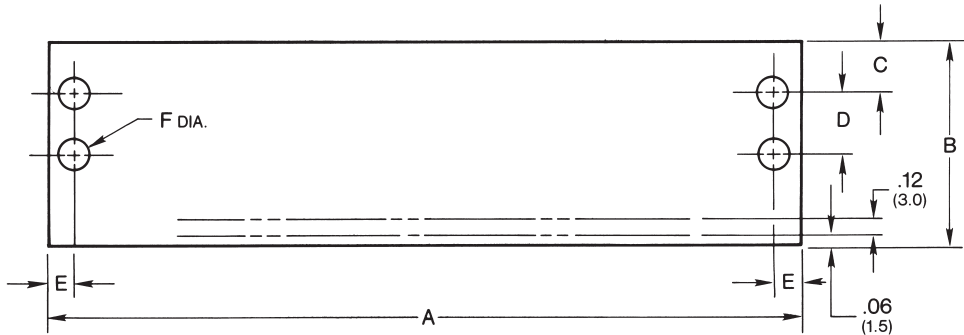
PRINT STYLE — **01A**

CB (BLACK) **SERIES** **NOTE: Add HB if using 200 HB Terminal Block**

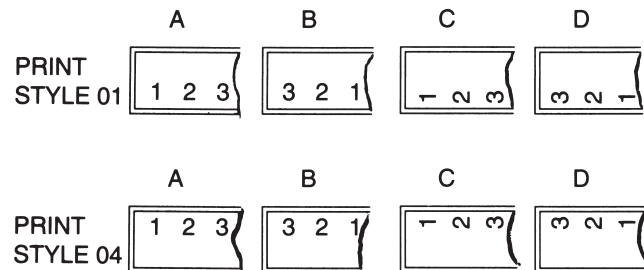
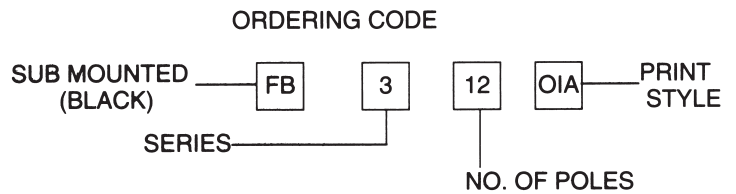
Double Row/Sub Mounted Marking Strip

Specifications:

- Black XP Phenolic Material
- Printed On Top Or Bottom Position With Letters Or Numbers For Circuit Identification
- Printing Character Size Is 1/8 Inch



# of Poles	100 Series A	200 H Series A	300 Series A
1	1.031	1.188	1.531
2	1.406	1.625	2.094
3	1.781	2.063	2.656
4	2.156	2.500	3.219
5	2.531	2.938	3.781
6	2.906	3.375	4.344
7	3.281	3.813	4.906
8	3.656	4.250	5.469
9	4.031	4.688	6.031
10	4.406	5.125	6.594
11	4.781	5.563	7.156
12	5.156	6.000	7.719
13	5.531	6.438	8.281
14	5.906	6.875	8.844
15	6.281	7.313	9.406
16	6.656	7.750	9.969
17	7.031	8.188	10.531
18	7.406	8.625	11.094
19	7.781	9.063	11.656
20	8.156	9.500	12.219
21	8.531	9.938	12.781
22	8.906	10.375	13.344
23	9.281	10.813	13.906
24	9.656	11.250	14.469
25	10.031	11.688	-
26	10.406	12.125	-
27	10.781	12.563	-
28	11.156	13.000	-
29	11.531	13.438	-
30	11.906	13.875	-
31	12.281	-	-
32	12.656	-	-
33	13.031	-	-
34	13.406	-	-
35	13.781	-	-
36	14.156	-	-

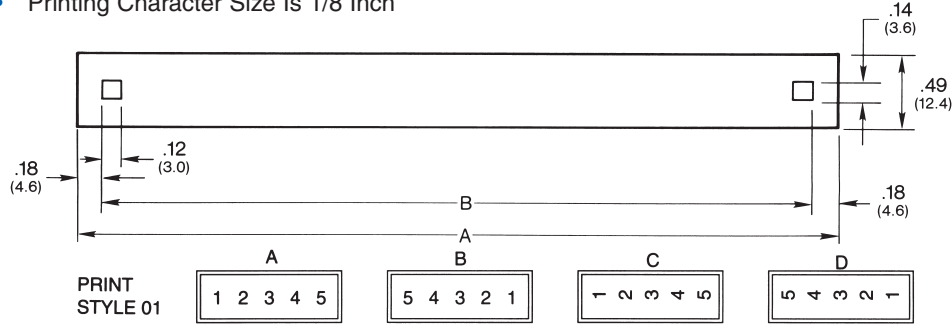


Series	B	C	D	E	F
100	1.12	.28	.31	.14	.16
200	1.37	.34	.42	.16	.18
200HB	1.88	.51	.42	.16	.18
300	1.56	.40	.50	.20	.20

Double Row/Top Mounted Marking Strip

Specifications:

- White Vinyl Material
- Two Nylon Spring Clips For Mounting
- Printed On The Center Line With Letters Or Numbers For Circuit Identification
- Printing Character Size Is 1/8 Inch



Series 1 = 100/670A GP 600 GP, 600A GP, 670 ARZ		
Number of Terminals	A	B
1	0.91	0.55
2	1.29	0.93
3	1.66	1.30
4	2.04	1.68
5	2.41	2.05
6	2.79	2.43
7	3.16	2.80
8	3.56	3.20
9	3.91	3.55
10	4.29	3.93
11	4.66	4.30
12	5.04	4.68
13	5.41	5.05
14	5.79	5.43
15	6.16	5.80
16	6.54	6.18
17	6.91	6.55
18	7.29	6.93
19	7.66	7.30
20	8.04	7.68
21	8.41	8.05
22	8.79	8.43
23	9.16	8.80
24	9.54	9.18
25	9.91	9.55
26	10.29	9.93
27	10.66	10.30
28	11.04	10.68
29	11.41	11.05
30	11.79	11.43
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
36	14.04	13.68

Series 2 = 200/671 GP, 200 HB, 601 GP, 621 RZ, 671 RZ		
Number of Terminals	A	B
1	1.01	0.65
2	1.44	1.08
3	1.88	1.52
4	2.32	1.96
5	2.76	2.40
6	3.19	2.83
7	3.63	3.27
8	4.07	3.71
9	4.50	4.14
10	4.94	4.58
11	5.38	5.02
12	5.81	5.45
13	6.25	5.89
14	6.69	6.33
15	7.13	6.77
16	7.56	7.20
17	8.00	7.64
18	8.44	8.08
19	8.87	8.51
20	9.31	8.95
21	9.75	9.39
22	10.18	9.82
23	10.62	10.26
24	11.06	10.70
25	11.50	11.14
26	11.93	11.57
27	12.37	12.01
28	12.81	12.45
29	13.24	12.88
30	13.68	13.32

Series 3 = 300/672 GP, 602 GP, 672 RZ		
Number of Terminals	A	B
1	1.16	0.80
2	1.73	1.37
3	2.29	1.93
4	2.85	2.49
5	3.42	3.06
6	3.98	3.62
7	4.54	4.18
8	5.10	4.74
9	5.67	5.31
10	6.23	5.87
11	6.79	6.43
12	7.36	7.00
13	7.92	7.56
14	8.48	8.12
15	9.05	8.69
16	9.61	9.25
17	10.17	9.81
18	10.73	10.37
19	11.30	10.94
20	11.86	11.50
21	12.42	12.06
22	12.99	12.63
23	13.55	13.19
24	14.11	13.75

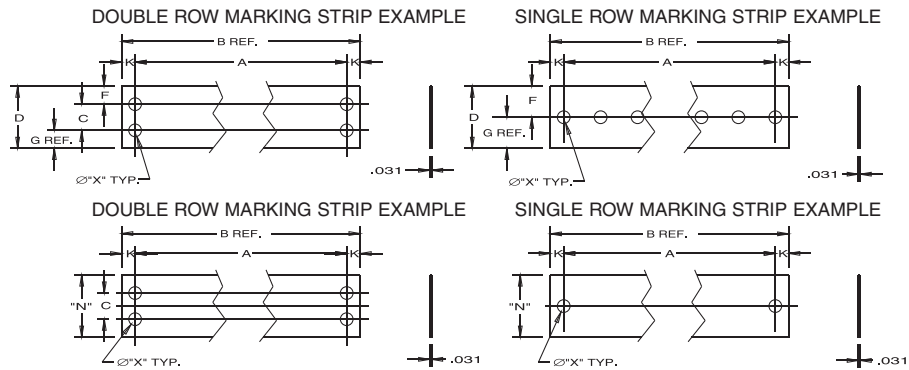


MARKING STRIP (WHITE) **SW** SERIES **1** NO. OF TERMINALS **10** PRINT STYLE **01A**

NOTE: Add HB if using 200 HB Terminal Block

Marking and Insulator Strips:

Kulka[®] 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.



Drawing and Dimensions:

Marking and insulator strips are available for Kulka[®] Terminal Blocks. These include double and single row/single row insulated turret.

Dimensions for insulator strips, which are more narrow (see dimension "N" on pages 103 and 104) and do not afford a marking surface are the same as marking strips except for dimension "D".

Order Information:

FEED-THRU STYLE: For feed-thru terminal blocks, see styles 2, 3, 5, 6, 8, & 9 on page 103. 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 Kulka[®] Terminal Blocks. See SERIES reference numbers on pages 103 and 104 for a complete listing. If not listed, consult the factory 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), XXPFR (flame retardant), GME (glass cloth melamine), GEE (glass cloth epoxy).

Printing:

- Marking strips are available in many printing styles.
The maximum number of characters per station is two (2).
 - Please specify printing style.
 - If unprinted marking strips are desired, insert the letter "X" in the printing style space of the ordering code.
 - Printing is the standard method of marking.
 - Printing color is silver (white) on dark surfaces and black on light surfaces.
- PROTECTIVE COATING:** Marking and insulator strips can be supplied with a fungus proof varnish (MIL-V-173A) cover coating. State on order: "coat after printing with MIL-V-173A varnish."

*See block dimension for overall length and mounting

Ordering Code Example

MS/IS	SERIES	MAT. CODE	FEED THRU (IF APPLICABLE)	NO. OF TERM	PRINT STYLE
MS	601	XP	Y	16	06A

Contact Factory for Availability of Materials

Marking Strip Dimensions - Single Row

Series	Style	Dimensions						
		D	F	G	K	W	X	N*
411	1, 2, 4	0.56	0.19	0.37	0.13	0.06	0.13	0.41
	5, 7, 8	0.88	0.44	--				
599 (799)	1, 2, 4	0.81	0.28	0.53	0.14	0.13	0.16	0.56
	5, 7, 8	1.13	0.56	--				
699 (899)	1, 2, 4	0.88	0.34	0.54	0.16	0.13	0.18	0.50
	5, 7, 8	1.13	0.56	--				
812 (912)	1, 2, 4	0.94	0.38	0.56	0.20	0.06	0.21	0.75
	5, 7, 8	1.31	0.66	--		0.13		

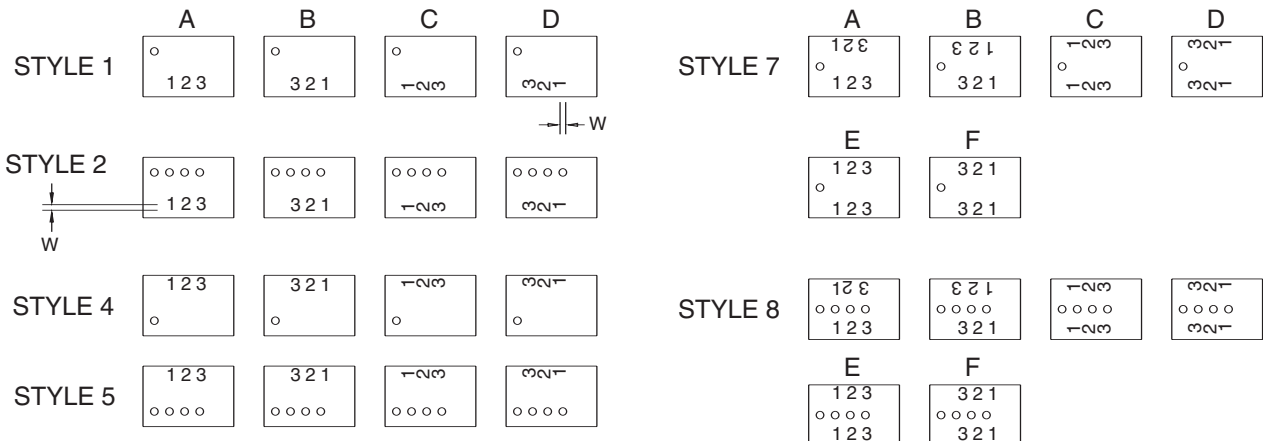
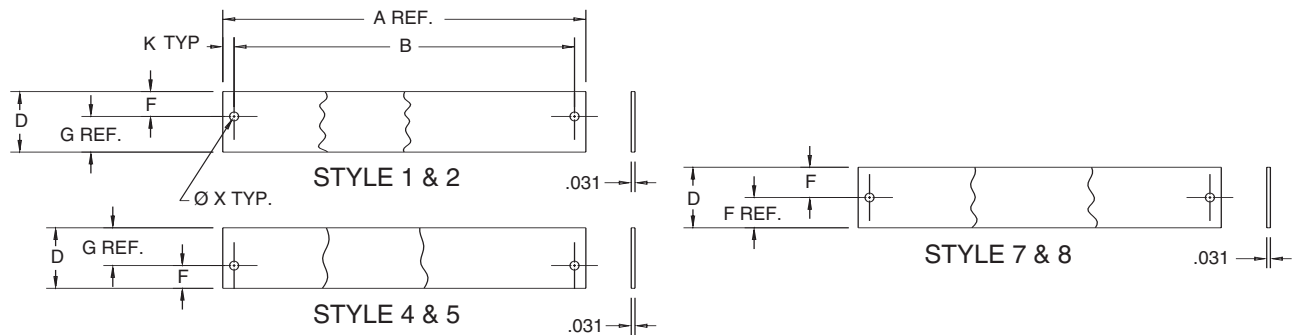
* N dimension to replace D dimension for insulator strips

MM = Dim X 25.4

** Consult factory on marking strips that are for terminal blocks with Z lugs.

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

Single Row



Marking Strip Dimensions - Double Row

Series	Style	Dimensions							
		C	D	F	G	K	W	X	N*
410	1-6	0.25	0.75	0.19	0.31	0.12	0.06	0.13	0.41
	7, 8, 9		1.13	0.44	--				
600 (800)	1-6	0.31	1.13	0.28	0.53	0.14	0.13	0.16	0.69
	7, 8, 9		1.38	0.53	--				
601 (801)	1-6	0.42	1.31	0.34	0.55	0.16	0.13	1.75	0.88
	7, 8, 9		1.50	0.55	--				
602 (802)	1-6	0.50	1.50	0.41	0.59	0.20	0.13	0.21	1.06
	7, 8, 9		1.75	0.63	--				
603	1-6	0.63	1.88	0.59	0.66	0.22	0.13	0.23	1.31
	7, 8, 9		2.13	0.75	--				
604	1, 4	0.75	2.13	0.63	0.75	0.27	0.13	0.23	1.50
	7		2.50	0.88	--				
605	1, 4	0.88	2.69	0.81	1.00	0.31	0.13	0.27	1.81
	7		2.81	0.97	--				
670	1-6	0.31	1.19	0.28	0.60	0.14	0.13	0.16	0.88
	7, 8, 9		1.50	0.59	--				
671	1-6	0.42	1.50	0.34	0.73	0.16	0.13	0.18	1.13
	7, 8, 9		1.75	0.67	--				
672	1-6	0.50	1.63	0.41	0.72	0.20	0.13	0.21	1.31
	7, 8, 9		1.94	0.72	--				

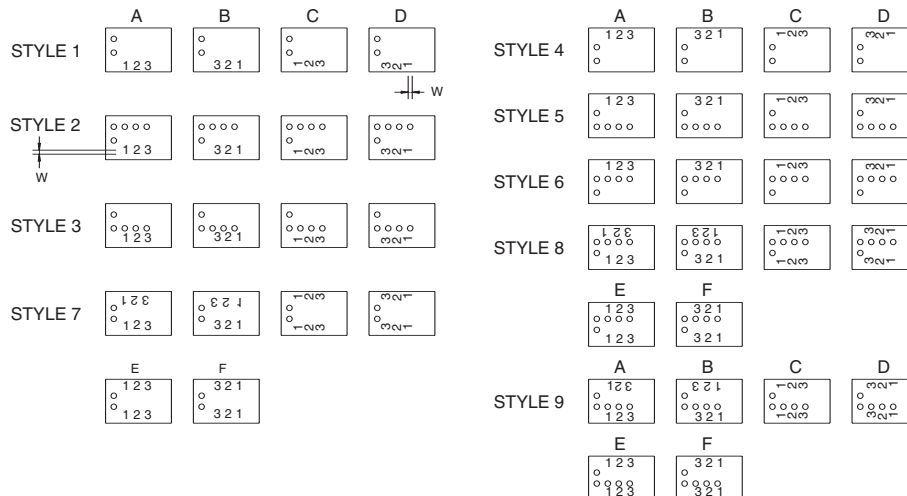
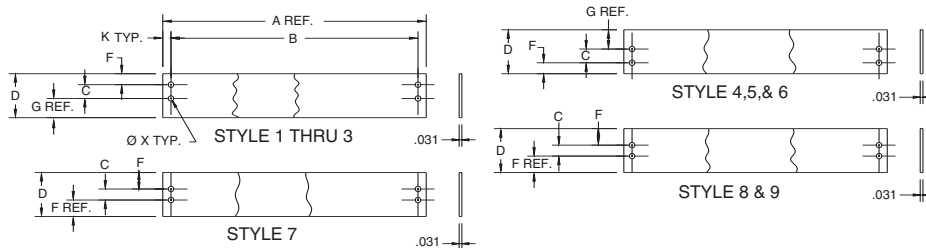
* N dimension to replace D dimension for insulator strips

MM = Dim X 25.4

** Consult factory on marking strips that are for terminal blocks with Z lugs.

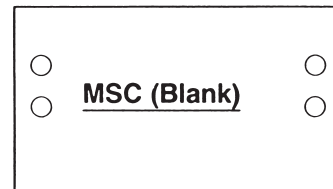
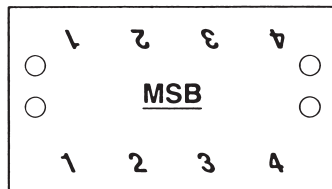
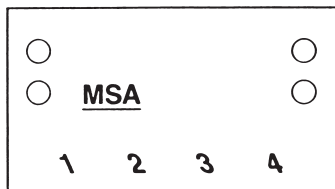
For overall lengths, reference appropriate terminal block series A & B dimensions.

Double Row

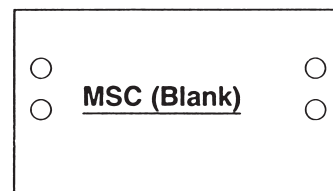
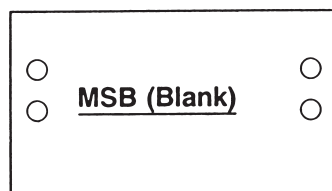
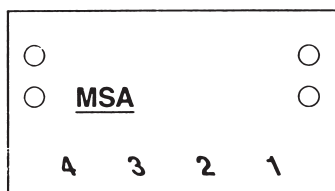


Marking Styles MSA, MSB, MSC

Front Surface of Marking Strip



Back Surface of Marking Strip



Marathon Offers a Complete Line of Military Marking Strips

Requirements:

- Type Mount: Bottom Only
- Dimensions: See Page 104 For Charts
- Material: Type GME
- Marking: Marking Strips Shall Be Marked In Accordance With CID A-A-59125
—can be provided to MIL T55164

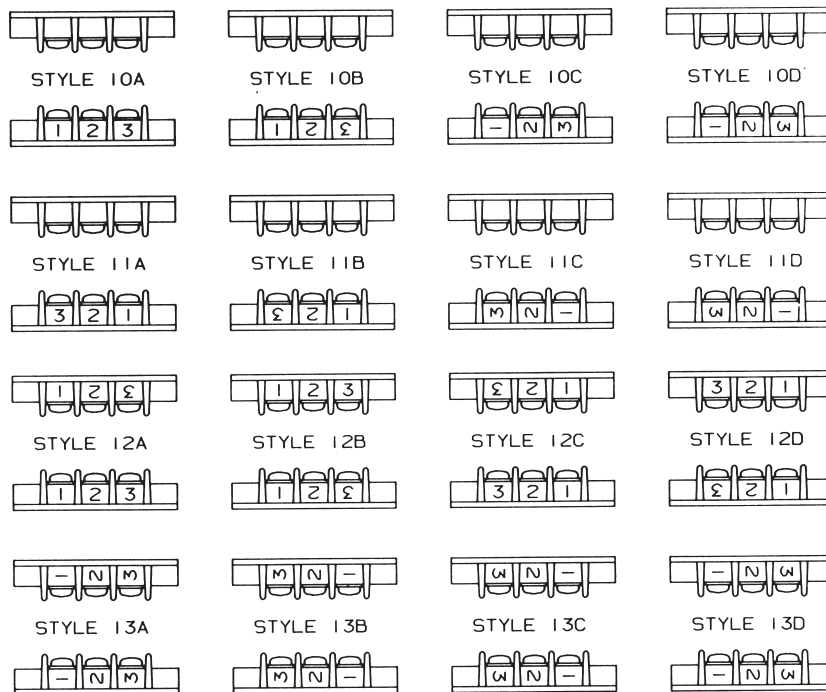
A single letter shall be inserted in the above type designation to specify the marking style (A, B or C).

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.

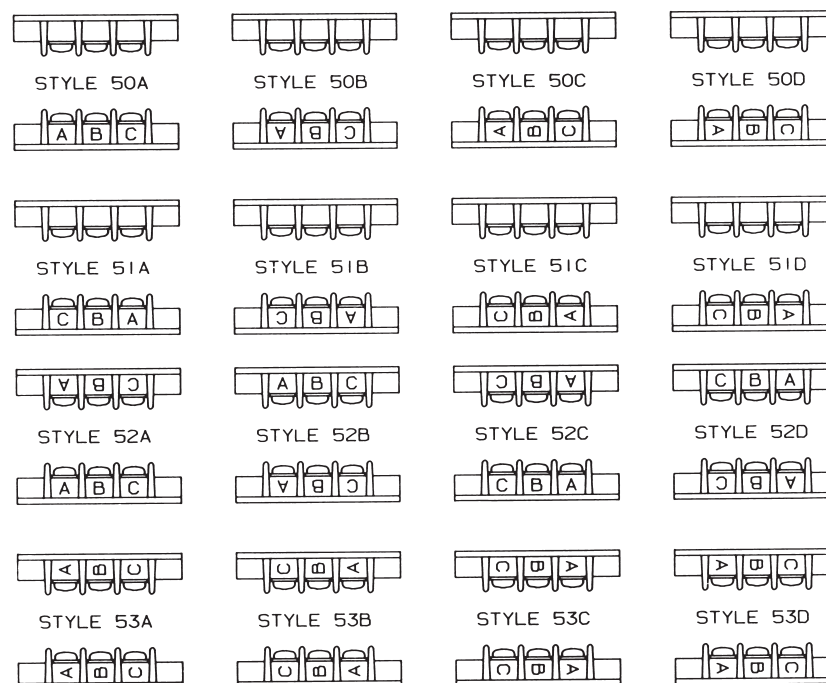
Type MSC37TB (black single sided marking strip) shall have the same dimensions as type MSA.

Terminal Block Printing

Numeric Print Styles



Alpha Print Styles



Sectional Terminal Blocks

General Information:

Sectionals are terminal blocks which are made up of individually molded units with electrically conductive members which, when assembled together, make up the block producing the required number of circuits.

Marathon offers three sizes of sectional terminal blocks: 3/8" centers, 1/2" centers and 11/16" sectional fuse holders. All blocks can be ordered with a channel mount base, or a flat mount base for direct mounting to the panel. The 3/8" is also available with a DIN foot.

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, service entrance devices.

Class B

Commercial appliances including business equipment, electronic data processing equipment and the like.

Class C

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

Spacing Requirements*:

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

*In Inches

Applications:

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

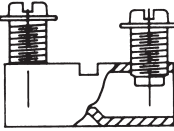
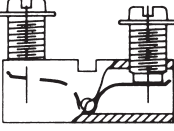
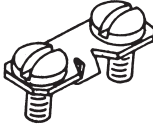
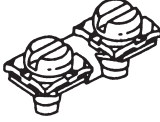
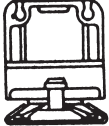
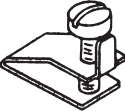

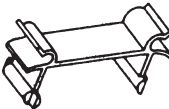

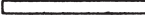
3/8" Sectional - 600 Volts 32 Circuits Per Foot



Specifications:

- Base, White Nylon 105° C
- Water Absorption 0.9% (Per ASTM D-570) (24 Hrs. % Wt. Gain)
- Tubular Screw Connector (TS) Copper, Tin Plated; Screw #10-32 Steel, Nickel Plated, Wire Range #8-#18 AWG Copper, 40 Amps
- Multiple Wire Combinations For Stranded Copper Wire Are:
 - 1 To 5 #18 AWG
 - 1 #8 AWG Or 1 #10 AWG
 - 1 To 3 #12 AWG
 - 1 To 4 #14 AWG Or #16 AWG
- Multiple Wire Combinations For Solid Copper Wire Are:
 - 1 #10 AWG
 - 1 To 3 #12 AWG
 - 1 To 4 #14 AWG Or #16 AWG
- Kant Kut Connector (TSKK) Copper, Tin Plated, Screw #10-32 Steel, Nickel Plated, Pad Steel, Wire Range #10-#22 AWG Copper, 40 Amps
- Multiple Wire Combinations For Stranded Copper Wire Are:
 - 1 #10 AWG
 - 1 To 2 #12 AWG
 - 1 To 3 #14 AWG
 - 1 To 4 #16 AWG
 - 1 To 5 #18 AWG
 - 1 To 5 #22 AWG
- Multiple Wire Combinations For Solid Copper Wire Are:
 - 1 #10 AWG
 - 1 To 2 #12 AWG
 - 1 To 2 #14 AWG
- Strap (S) Brass, Tin Plated Connector, Screw #6-32 Brass, Nickel Plated, Wire Range #14-#16 AWG (Larger Wire May Be Used With Proper Termination), 20 Amps
- Sems (SP) Brass, Tin Plated Connector, Screw #6-32 Steel, Nickel Plated, Wire Range #12-#22 AWG, 25 Amps
- UL Recognized File No. E62806
- CSA Certified File No. LR 19766
- Wire termination torque 20 lb-in
- CE

Sectional Terminal Blocks

Catalog #	Description		Std. Pack Qty.
6H38-TS-F For flat mount block	Tubular Screw		100
6H38-TS-C For channel mount block			
6H38-TSKK-F For flat mount block	Kant Kut Connector		100
6H38-TSKK-C For channel mount block			
6H38-S-F For flat mount block	Screw		100
6H38-S-C For channel mount block			
6H38-SP-F For flat mount block	Sems Pressure		100
6H38-SP-C For channel mount block			
6H38-E-F For flat mount block	End Section		25
6H38-E-C For channel mount block			
MC	Mounting Clamp		25
J-38	Jumper for TS + TSKK		50
C-38	Cover		25
MPC-6 6 Foot channel	Channel		---
MPC-3 3 Foot channel			
MS	Vinyl Marking Strip 1/2" X 2' White		25

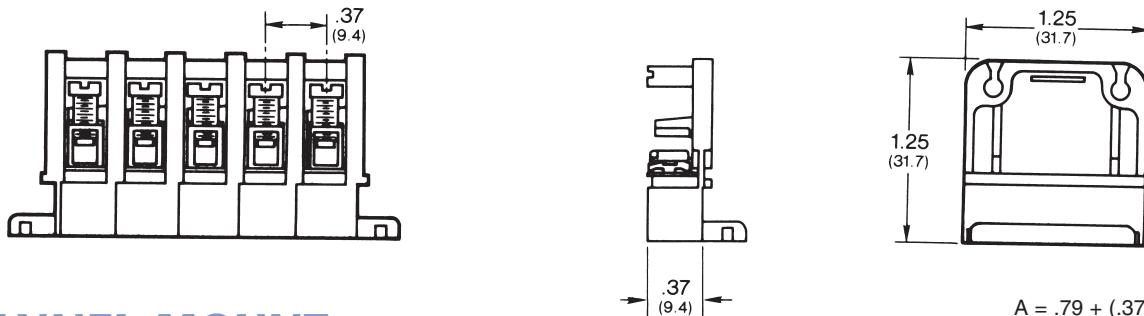
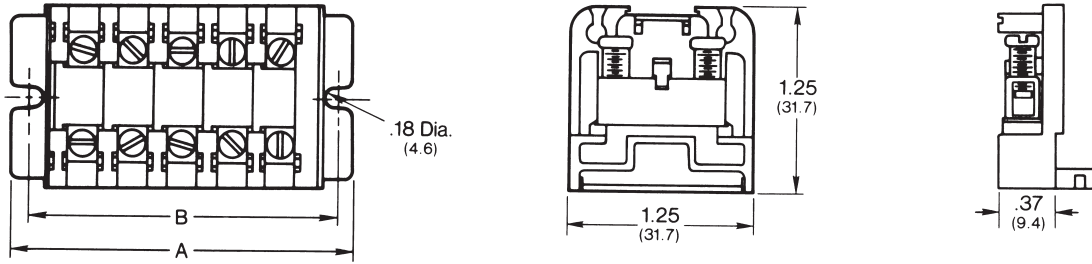
Sectional Terminal Blocks

3/8" Sectional

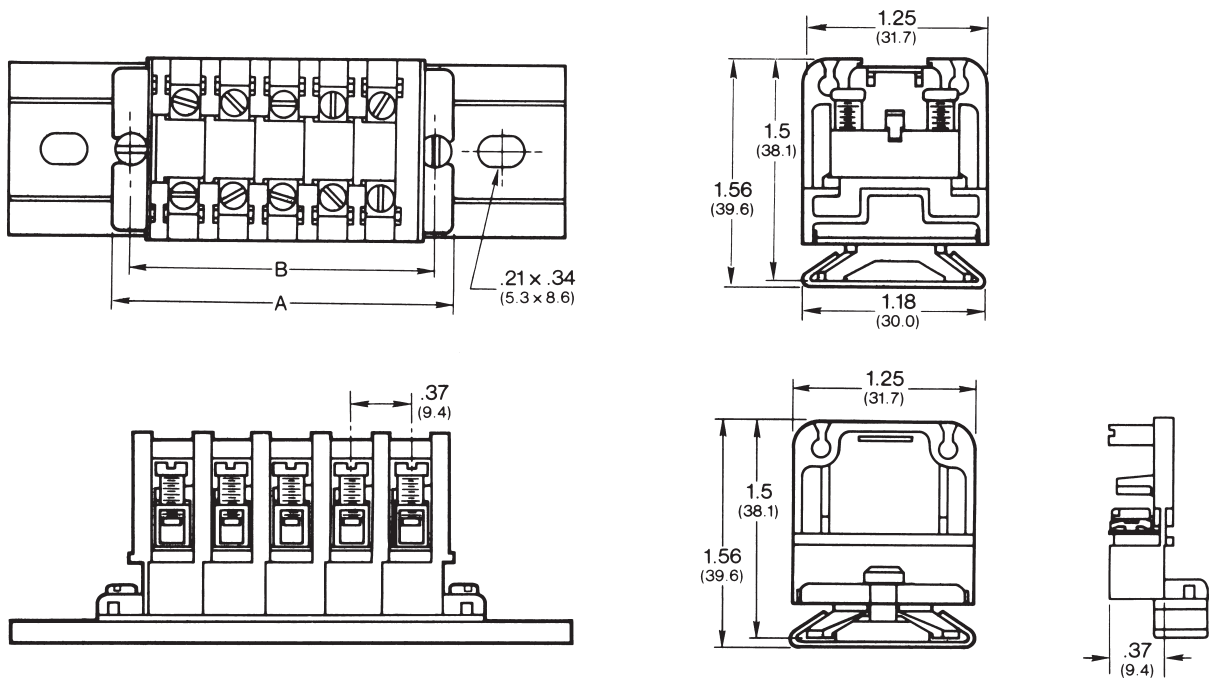
DIMENSIONS IN [MM]

FLAT MOUNT

Sectional Terminal Blocks

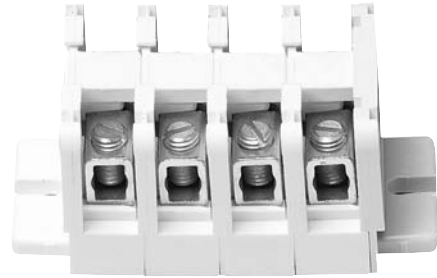


CHANNEL MOUNT





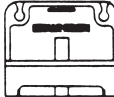
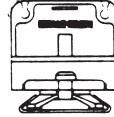




Sectional Terminal Blocks

1/2" Sectional - 600 Volts 24 Circuits Per Foot



Specifications:

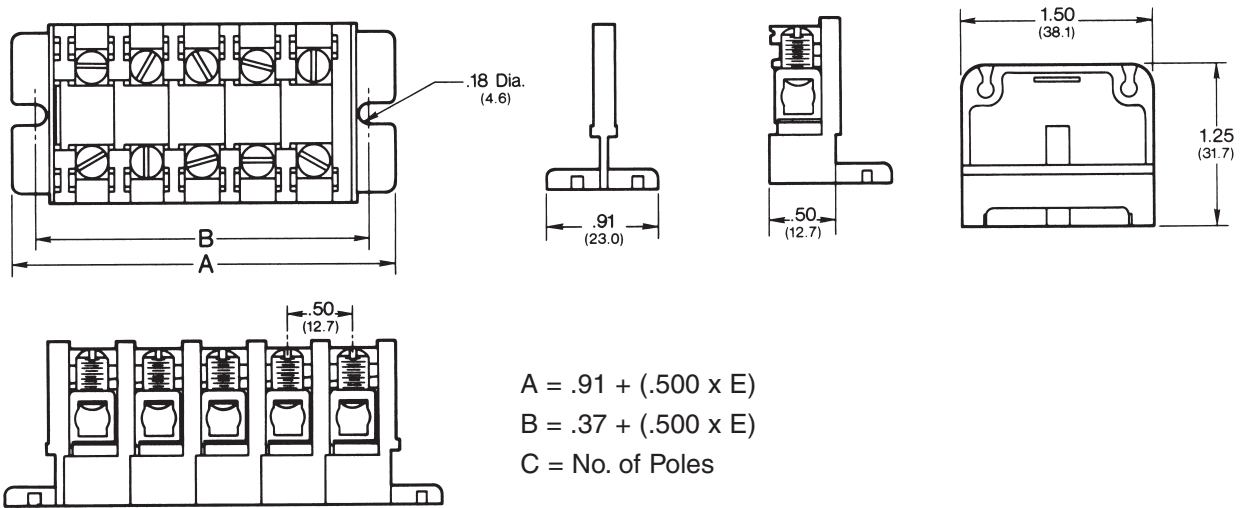
- Base, White Nylon – Type 6/6 105° C
- Water Absorption 0.9% (Per ASTM D-570) (24 Hrs. % Wt. Gain)
- Tubular Screw (TSCU) Copper, Tin Plated; Screw #1/4-28 Steel, Nickel Plated, Wire Range #16-#4 AWG Copper, 70 Amps
- UL Recognized File No. E62806
- CSA Certified File No. LR19766
- CE

Catalog #	Description		Std. Pack Qty.
6H12-TSCU-F For flat mount block	Tubular Screw		50
6H12-TSCU-C For channel mount block	Tubular Screw		50
6H12-E-F For flat mount block	End Section		25
6H12-E-C For channel mount block	End Section		25
MC	Metal Clamp		25
J-12	Jumper		50
MPC-6 6 Foot channel MPC-3 3 Foot channel	Channel		---
MS	Vinyl Marking Strip 1/2" X 2'		25

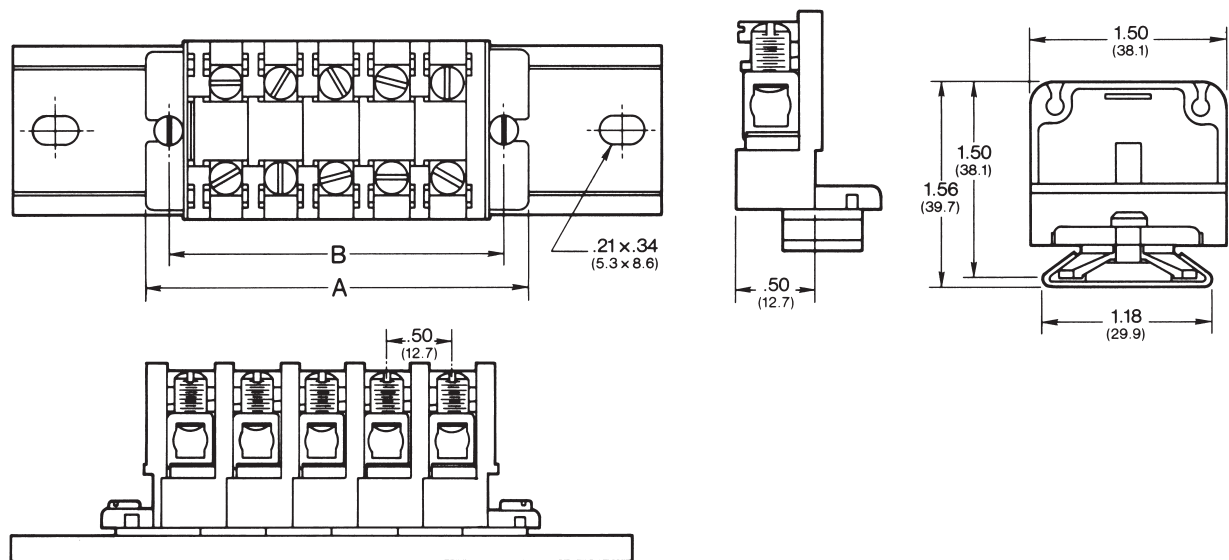
Sectional Terminal Blocks

1/2" Sectional

FLAT MOUNT



CHANNEL MOUNT



Sectional Terminal Blocks

3/8" Sectional - 600 Volts 32 Circuits Per Foot

General Information:

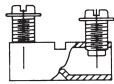
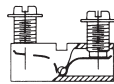
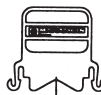


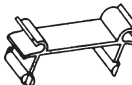

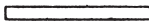
Sectionals are terminal blocks which are made up of individual molded units with electrically conductive members which, when assembled together, make up the block producing the required number of circuits. Marathon's DIN Sectional Blocks will fit on a standard DIN 3 rail.

Marathon's DIN Sectional Blocks are recognized under the Component Programs of Underwriters Laboratories, Inc., UL File E62806, CSA File LR19766 and are listed by the Canadian Standards Associations.

CE

Specifications:

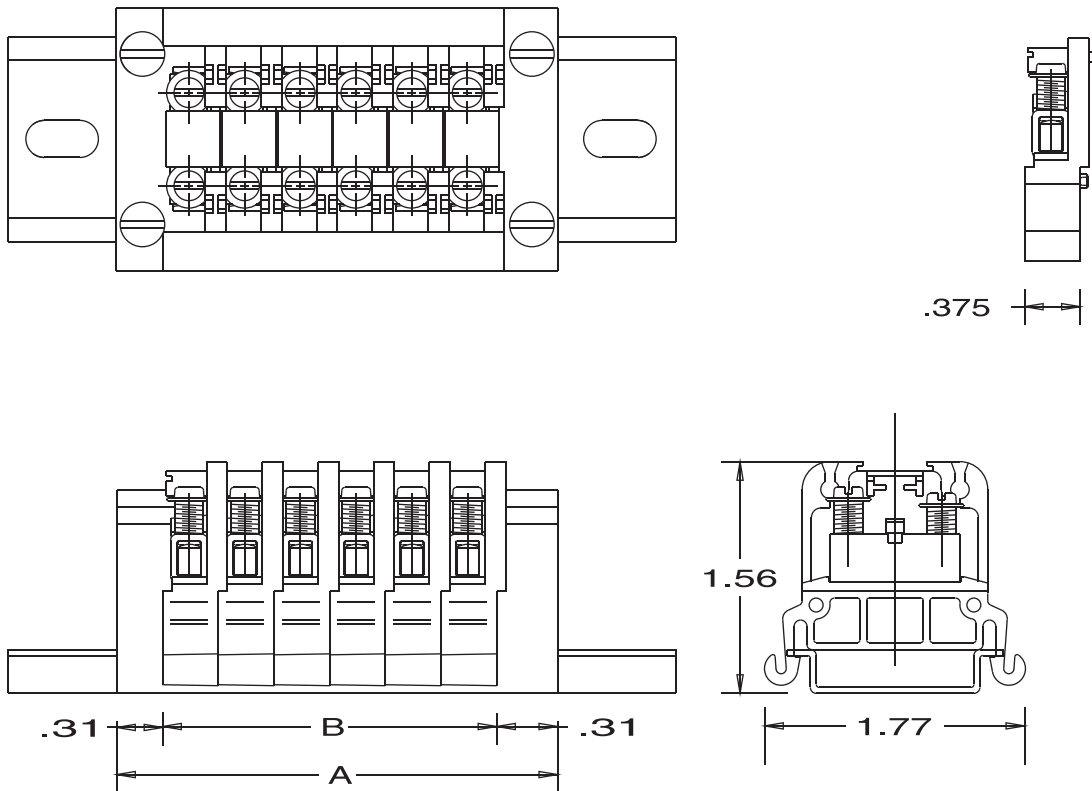
- Base, White Nylon – 105° C
- Water Absorption 0.9% (Per ASTM D-570) (24 Hrs. % Wt. Gain)
- Tubular Screw Connector (TS) Copper, Tin Plated; Screw #10-32 Steel, Nickel Plated
- Wire Range #8-#18 Awg Copper, 50 Amps
- Multiple wire combinations for stranded wire are:
 - (1) #8 AWG, (1) #10 AWG,
 - (3) #12 AWG, (4) #14 AWG,
 - (5) #16 AWG, (6) #18 AWG
- Kant Kut Connector (TSKK) Copper, Tin Plated Screw - #10-32 Steel, Nickel Plated
- Wire Range #10-#22 Awg copper, 40 Amps
- Multiple wire combinations for solid copper wire are:
 - (1) #10 AWG, (2) #12 AWG,
 - (3) #14 AWG, (4) #16 AWG,
 - (5) #18 AWG, (6) #22 AWG

Catalog #	Description		Std. Pack Qty.
6H38-TS-DIN	Tubular Screw		25
6H38-TSKK-DIN For DIN 3 Rail Mount	Kant Kut Connector		25
6H38-E-DIN For DIN 3 Rail Mount	End Section		25
MSK35W	End Bracket		25
J-38	Jumper for TS + TSKK		50
C-38	Cover		25
MN35-2	DIN Rail 35 X 7.5 mm 2 m long, slotted		5
MS	Vinyl Marking Strip 1/2" X 2" White		25

Sectional Terminal Blocks

3/8" Sectional - 600 Volts 32 Circuits Per Foot

Sectional Terminal Blocks



$$B = .11 + (.375 \times \text{No. of Poles})$$

$$A = B + .62 \text{ (With Two End Brackets)}$$

Sectional Terminal Blocks

11/16" Sectional Fuse Holder 600 Volt 30 Amp

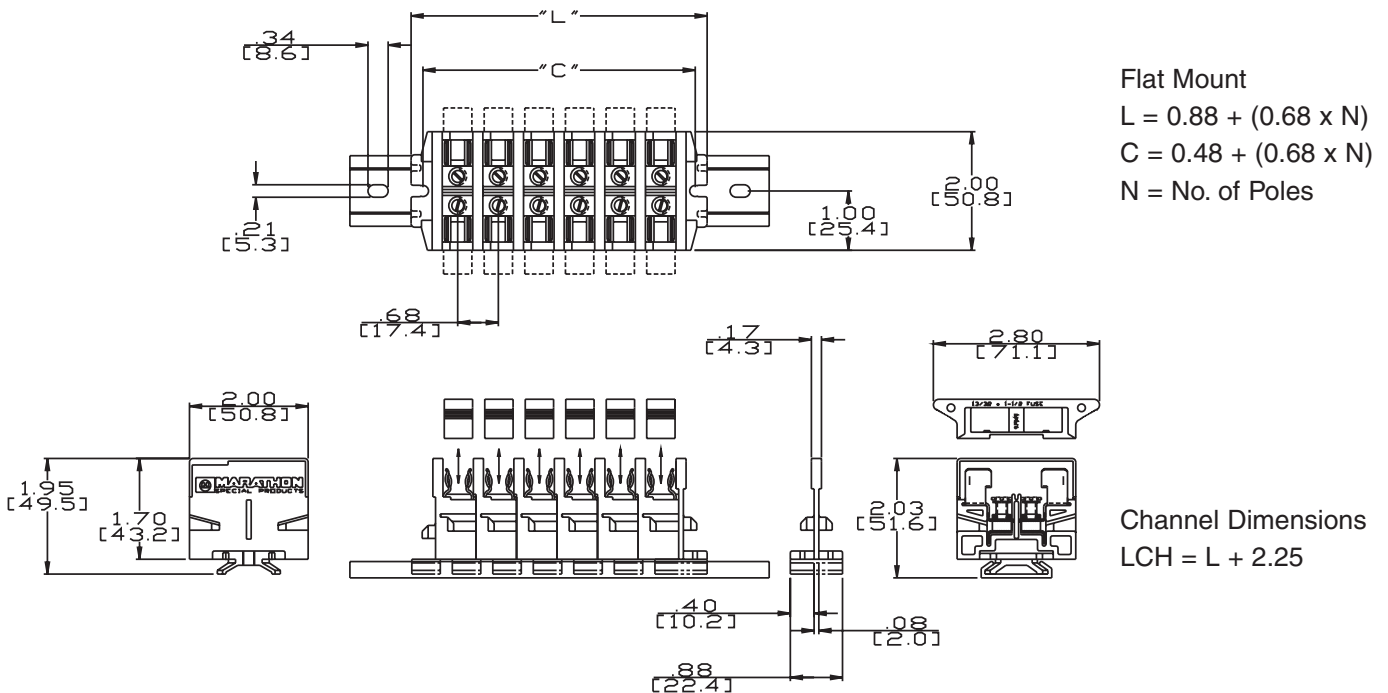
Specifications:

- Have Been Tested and Approved for 10,000 Amp Interrupting Capacity
- Base, White Nylon – 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. E35113
- CSA Certified File No. LR21455
- CE



Catalog #	Description	Std. Carton Qty.	Wire Range	Fuse Size
6W30A1F	FLAT MOUNT	10	#10-#14 AWG CU STRANDED	13/32" DIAMETER BY 1 1/2" LONG
6W30A1C	CHANNEL MOUNT	10		
6WE-F	END PIECE--FLAT	10		
6WE-C	END PIECE--CHANNEL	10		
MC	CHANNEL CLAMP	25		
MPC-6	6 FOOT CHANNEL	---		
MPC-3	3 FOOT CHANNEL	---		
GR-2	1/8" DIA X 2' LONG NYLON ROD	---		

Sectional Terminal Blocks



DIN Rail Terminal Blocks

General Information:

Marathon DIN Rail Terminal Blocks are ideal for various applications such as machine tool controls, distribution and instrumentation installations, switchgear, elevator and panelboard construction.

Insulating Materials:

The moldings are made of Polyamide 6.6. This material has high creepage resistance and high impact strength. It also has a UL 94V-2 flammability rating and is resistant to gasoline, oil, alcohol and many other chemicals.

Temperature Rating: 100°C / 212°F Continuous
170°C / 338°F Intermittent & Short Exposure

Connector System:

The connectors are made of copper alloy and are nickel-plated for corrosion resistance. The screws are rolled steel, zinc plated and chromated. The total connector system provides the following benefits:

1. The system ensures that no matter how small the cross section of the wire it can only be inserted into the connection hole.
2. A serrated pressure plate eliminates any wire damage from the torquing of the screw.
3. The upward pressure on the screw from the pressure plate reduces the risk of a screw loosening due to vibration.
4. The pressure plate also compensates for some reduction in contact pressure caused by cold flow in the wire.
5. The design of the pressure plate and its heavy construction eliminates tilting, even with solid wires.
6. The use of rolled rather than turned screw threads provide for the application of higher torque without thread damage.

Reference Chart:

Catalog Number	Page	Amps	Volts	Wire Range	Thickness	Terminals per Foot	Torque Wire Termination
MIK3	117	20	600	#22-#12AWG	5 mm	60	5
MIK5	118	30	600	#22-#10AWG	6 mm	50	13.3
MIK10	119	50	600	#22-#8AWG	8 mm	38	13.3
MIK16	120	65	600	#22-#6AWG	10 mm	30	18
MIK25	121	85	600	#8-#4AWG	12 mm	25	53
MIKTS4	122	20	300	#22-#12AWG	6 mm	-	-
MIKSI5	123	10	300	#20-#10AWG	8 mm	-	-
MIKE4	124	-	-	#22-#10AWG	7 mm	-	8.0
MIKE10	124	-	-	#8AWG	8 mm	-	13.3
MIKE16	124	-	-	#6AWG	10 mm	-	18

Contact Factory For Identification Labels
MSK35 - End Bracket securing torque 7-9 lb-in (.8-1 N-m)

DIN Rail Terminal Blocks

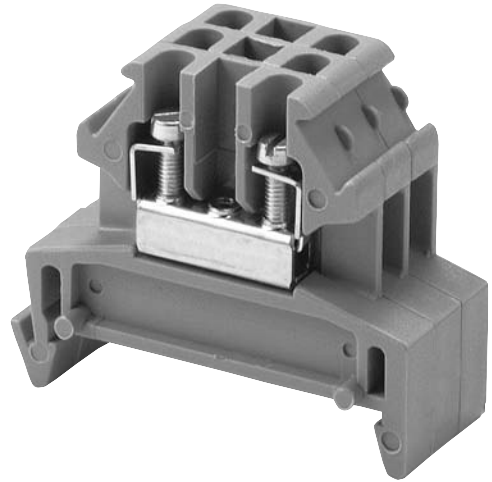
MIK3

5 mm

600 Volts

Specifications:

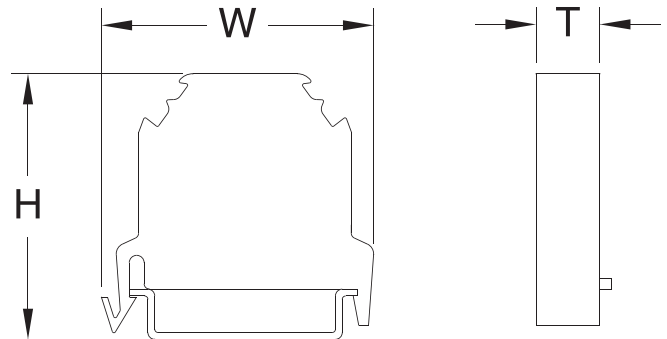
- Insulating Material, Polyamide 6.6, Gray
- Wire Range #22-#12 AWG – 20 Amps
- UL Recognized File No. E62806
- CSA Certified File No. LR700930- 25 Amps
- VDE – 26 Amps
- C€



Catalog #	Description
MIK3	Center Section
MN35-2	DIN Rail symmetrical 35 X 7.5 mm slotted 2 m long/ steel zinc-plated, yellow chromated
MVB2-2	Jumper 2-position
MVB2-12	Jumper 12-position
MVL2-2	Connecting straps for linking together two adjacent 12 pole jumpers
MIW2	Insulating end sections for covering and insulating the last terminal in an assembly
MIW4	Insulating partition walls for visual and electrical separation of terminal groups
MKAW2	Safety cover with warning label for line terminals which cannot be disconnected
MSK35	End bracket used on both ends of the assembly to hold blocks in place

Dimensions:

- H = 36 mm (1.417")
- W = 42 mm (1.653")
- T = 5 mm (.197")



DIN Rail Terminal Blocks

MIK5

6 mm

600 Volts

Specifications:

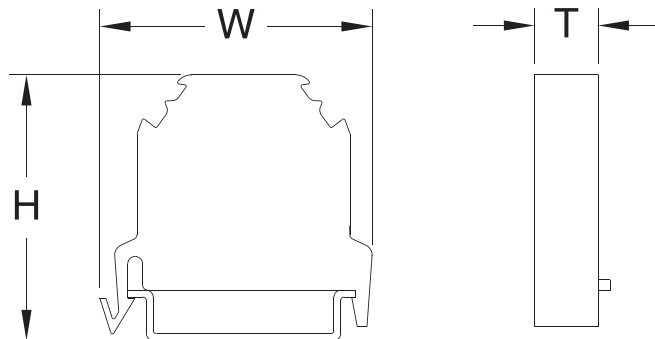
- Insulating Material, Polyamide 6.6, Gray
- Wire Range #22-#10 AWG – 30 Amps
- UL Recognized File No. E62806
- CSA Certified File No. LR700930- 40 Amps
- VDE – 34 Amps
- CE



Catalog #	Description
MIK5	Center Section
MN35-2	DIN Rail symmetrical 35 X 7.5 mm slotted 2 m long/ steel zinc-plated, yellow chromated
MVB4-2	Jumper 2-position
MVB4-12	Jumper 12-position
MVL4-2	Connecting straps for linking together two adjacent 12 pole jumpers
MSTB2	Plug Sockets- test plugs of 2.3 mm Ø
MPST2	Test Plugs- 2.3 mm Ø
MIW4	Insulating end sections for covering and insulating the last terminal
MIW16	Insulating partition walls for visual and electrical separation of terminal groups
MKAW4	Safety cover with warning label for line terminals which cannot be disconnected
MSK35	End bracket used on both ends of the assembly to hold blocks in place

Dimensions:

H	=	38 mm (1.496")
W	=	42 mm (1.653")
T	=	6 mm (.236")



DIN Rail Terminal Blocks

MIK10

8 mm

600 Volts

Specifications:

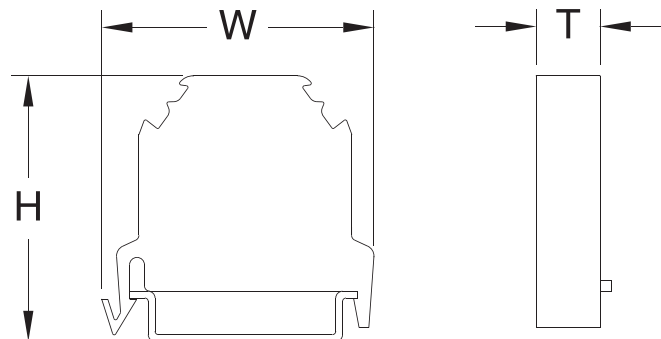
- Insulating Material, Polyamide 6.6, Gray
- Wire Range #22-#8 AWG – 50 Amps
- UL Recognized File No. E62806
- CSA Certified File No. LR700930- 50 Amps
- VDE – 61 Amps
- C E



Catalog #	Description
MIK 10	Center Section
MN35-2	DIN Rail symmetrical 35 X 7.5 mm slotted 2 m long/ steel zinc-plated, yellow chromated
MVB6-2	Jumper 2-position
MVB6-12	Jumper 12-position
MVL6-2	Connecting straps for linking together two adjacent 12 pole jumpers
MSTB2	Plug Sockets- test plugs of 2.3 mm Ø
MPST2	Test Plugs- 2.3 mm Ø
MIW16	Insulating end sections for covering and insulating the last terminal in an assembly
MIW50	Insulating partition walls for visual and electrical separation of terminal groups
MKAW10	Safety cover with warning label for line terminals which cannot be disconnected
MSK35	End bracket used on both ends of the assembly to hold blocks in place

Dimensions:

- H = 44 mm (1.732")
- W = 42 mm (1.653")
- T = 8 mm (.315")



MIK16

10 mm

600 Volts

Specifications:

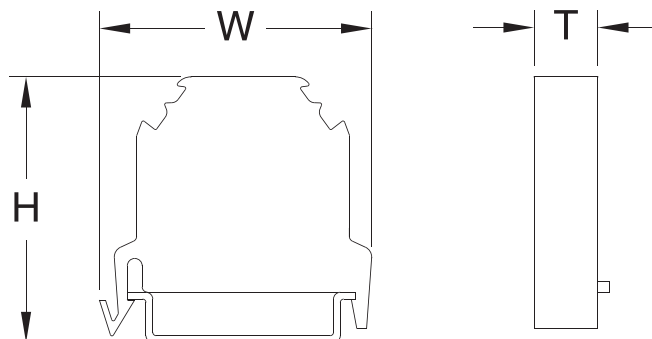
- Insulating Material, Polyamide 6.6, Gray
- Wire Range #22-#6 AWG – 65 Amps
- UL Recognized File No. E62806
- CSA Certified File No. LR700930- 68 Amps
- VDE – 82 Amps
- CE



Catalog #	Description
MIK16	Center Section
MN35-2	DIN Rail symmetrical 35 X 7.5 mm slotted 2 m long/ steel zinc-plated, yellow chromated
MVB16-2	Jumper 2-position
MVB16-12	Jumper 12-position
MVBL16	Removable connecting jumpers for the connection of adjacent lines
MVL16-2	Connecting straps for linking together two adjacent 12 pole jumpers
MIW16	Insulating end sections for covering and insulating the last terminal in an assembly
MIW50	Insulating partition walls for visual and electrical separation of terminal groups
MKAW16	Safety covers with warning label for line terminals which cannot be disconnected
MSK35	End bracket used on both ends of the assembly to hold blocks in place

Dimensions:

H	=	44 mm (1.732")
W	=	42 mm (1.653")
T	=	10 mm (.394")



DIN Rail Terminal Blocks

MIK25

12 mm

600 Volts

Specifications:

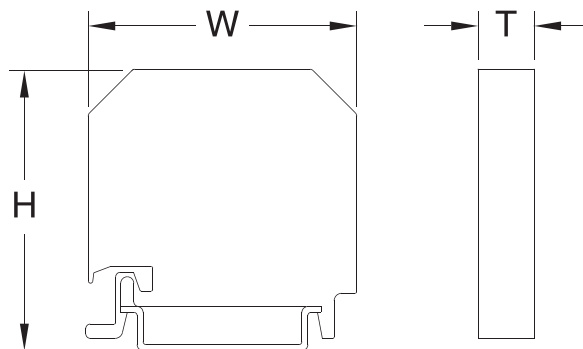
- Insulating Material, Polyamide 6.6, Gray
- Wire Range #8-#4 AWG – 85 Amps
- UL Recognized File No. E62806
- CSA Certified File No. LR700930- 70 Amps
- VDE – 108 Amps
- CE



Catalog #	Description
MIK25	Center Section
MN35-2	DIN Rail symmetrical 35 X 7.5 mm slotted 2 m long/ steel zinc-plated, yellow chromated
MVB25	Jumpers 2-position
MVL25	Connecting straps- 2 position
MVL25-3	Connecting straps- 3 position
MVBU35	Supports for use under the MVL straps using M 6 X 15 screws
MSTB35	Plug sockets for test plugs of 4 mm Ø
MPST4	Test plugs- 4 mm Ø
MIW50	Insulating end sections for covering and insulating the last terminal in an assembly
MIW70	Insulating partition walls for visual and electrical separation of terminal groups
MKAW25	Safety covers with warning label for supply line terminals which cannot be disconnected
MSK35	End bracket used on both ends of the assembly to hold blocks in place

Dimensions:

- H = 48 mm (1.89")
- W = 50 mm (1.97")
- T = 12 mm (.47")



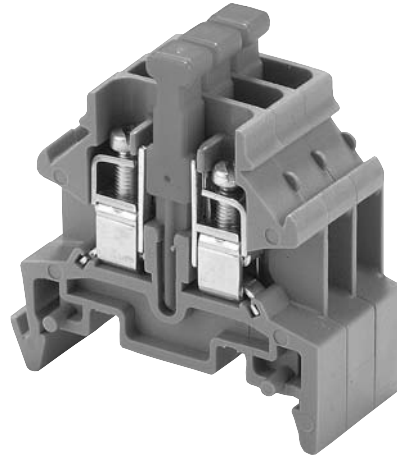
MIKTS4 (Disconnect)

6 mm

300 Volts

Specifications:

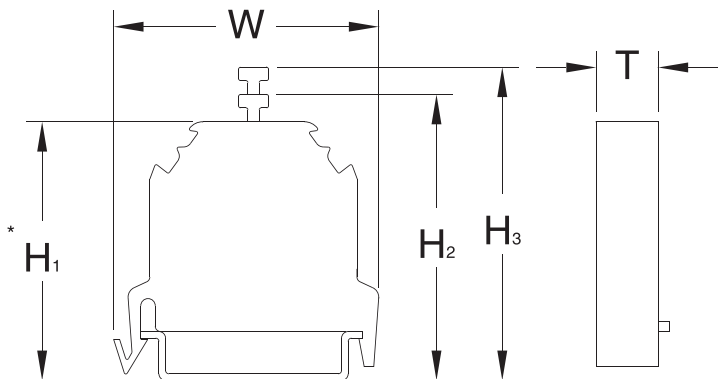
- Insulating Material, Polyamide 6.6, Gray
- Wire Range #22-#12 AWG – 20 Amps
- CSA Certified File No. LR700930
- VDE – 16 Amps
- CE



Catalog #	Description
MIKTS4	Center Section
MN35-2	DIN Rail symmetrical 35 X 7.5 mm slotted 2 m long/ steel zinc-plated, yellow chromated
MDSBL (Plug only)	Diode plug- blue with diode 400V, 1A cathode on high voltage side
MDSRT (Plug only)	Diode plug- red with diode 400V, 1A cathode on low voltage side
MPST2	Test Plug- 2.3 mm \varnothing
MIW4	Insulating end sections for covering and insulating the last terminal in an assembly
MSK35	End bracket used on both ends of the assembly to hold blocks in place

Dimensions:

H ₁	=	39 mm (1.535")
H ₂	=	46 mm (1.800")
H ₃	=	53 mm (2.100")
W	=	42 mm (1.653")
T	=	6 mm (.236")



DIN Rail Terminal Blocks

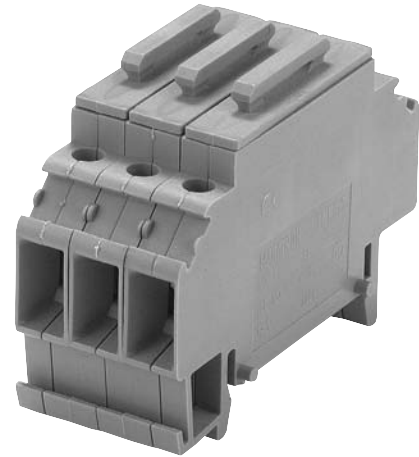
MIKSI5

8 mm

300 Volts

Specifications:

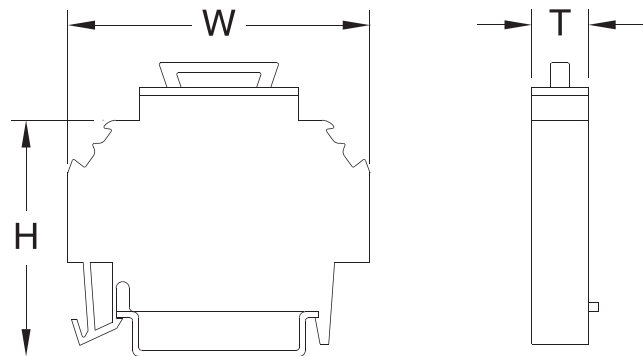
- Insulating Material, Polyamide 6.6, Gray
- Wire Range #22-#10 AWG – 10 Amps
- VDE - 4mm²
- IEC - 6.3 Amps
- UL Recognized – 10 Amps
- Fuse Type - 5 x 20 mm, 5 x 25 mm
- CE



Catalog #	Description
MIKSI5	Center Section
MN35-2	DIN Rail symmetrical 35 X 7.5 mm slotted 2 m long/ steel zinc-plated, yellow chromated
MIW50	Insulating partition walls for visual and electrical separation of terminal groups
MSK35	End bracket used on both ends of the assembly to hold blocks in place

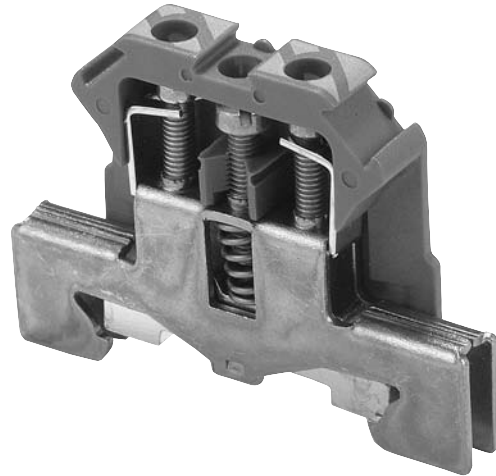
Dimensions:

H = 47 mm (1.850")
W = 60 mm (2.362")
T = 8 mm (.315")



MIKE4, MIKE10, MIKE16

7 mm, 8 mm, 10 mm

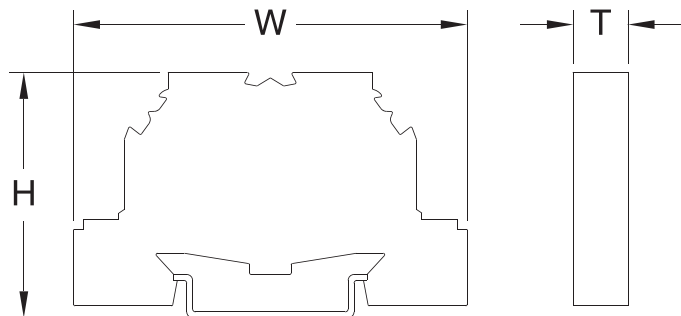


Specifications:

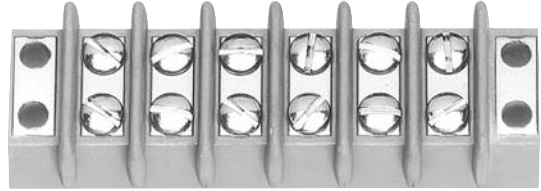
- Insulating Material, Polyamide 6.6, Green/Yellow
- Wire Range
 - MIKE4 - #22-#10 AWG
 - MIKE10 - #8 AWG
 - MIKE16 - #6 AWG
- UL Recognized File No. E62806
- CSA Certified File No. LR700930
- VDE
- CE

Dimensions:

H	=	MIKE4	38 mm (1.496")
		MIKE10	44 mm (1.771")
		MIKE16	44 mm (1.732")
W	=		56 mm (2.204")
T	=	MIKE4	7 mm (.275")
		MIKE10	8 mm (.315")
		MIKE16	10 mm (.394")



Kulka® Military Class (A-A-59125)/(MIL-T-55164)



Military Class: Closed Back

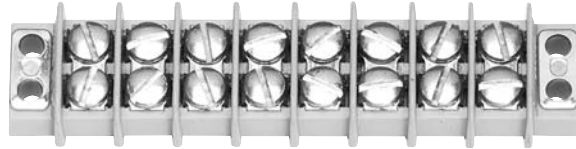
These military blocks feature molded-in terminals in an improved Kulka® design for greater strength and flexibility. The mounting holes are covered with molded-in reinforcement straddle plates.

A-A-59125/ MIL-T-55164 Information		Terminal Type	Voltage		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]
43 TB	/ 26	Double Screw	150 V RMS	2000 V RMS	5 Amp 60 Hz	#2	#22 AWG	—	0.187" [4.7]	2-4 [0.2-0.5]
44 TB	/ 27	Single Screw	150 V RMS	2000 V RMS	5 Amp 60 Hz	#2	#22 AWG	—	0.187" [4.7]	2-4 [0.2-0.5]

Kulka® Military Class (A-A-59125)/(MIL-T-55164)

37TB-B/40TB-B Series

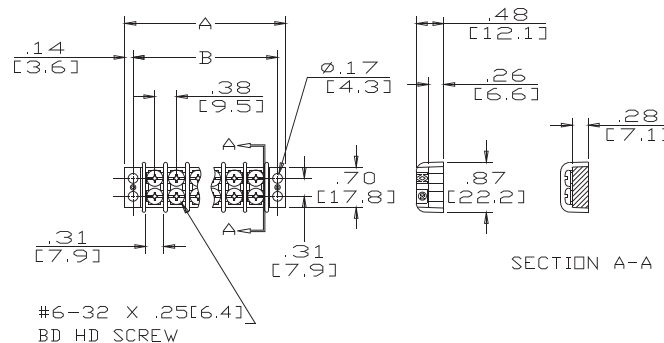
300 Volts



Specifications:

- Base, GPT-30F, Grey Color, 130° C
- Closed Back Design
- Screws, Brass Nickel Plate, 6-32 Binder Head, Slotted
- Terminals, Brass Nickel Plate, Ultrasonically Inserted
- 2-20 Poles, Consult Factory for Longer Lengths
- 3/8" Centers
- Flammability Rating 94 V-O
- Wire Size #16-15 Amps
- Parts are supplied with end plates

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



Hardware Options:

Lug Types (Commercial):
3/4 ST 600 = Half Solder
ST600 = Full Solder

Feed-Thru Hardware Options:

Long Feed-Thru Solder
40TB B Only

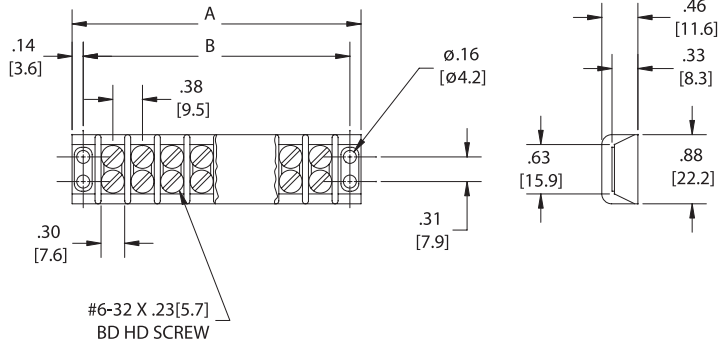
Service Options:

Consult Factory

Accessories: (Jumper Commercial Grade)

Marking Strips = MSA, MSB, MSC
Jumper = J600, 600RJ, 600RJ(S)

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 plate per QQ-N-290
- Terminal Plates: Brass per QQ-B-613, nickel plated per QQ-N-290

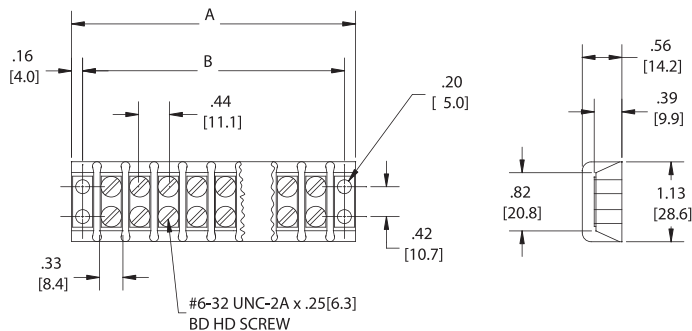
Electrical Rating:

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

Military Type Designation	Number of poles	Dimensions	
		A	B
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

MM=Dim X 25.4

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 plate per QQ-N-290
- Terminal Plates: Brass per QQ-B-613, nickel plated per QQ-N-290

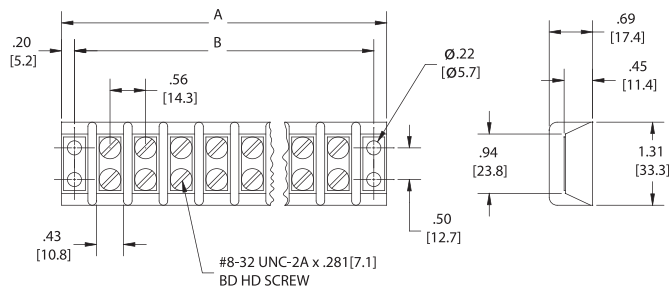
Electrical Rating:

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

Military Type Designation	Number of poles	Dimensions	
		A	B
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

MM=Dim X 25.4

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 plate per QQ-N-290
- Terminal Plates: Brass per QQ-B-613, nickel plated per QQ-N-290

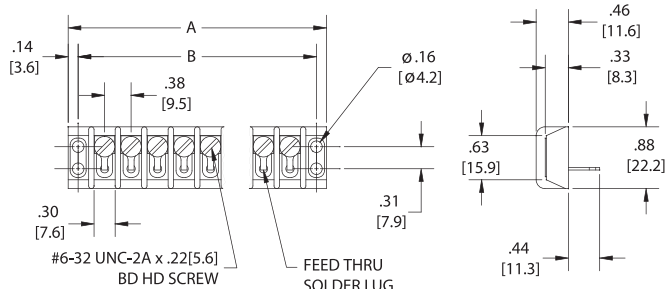
Electrical Rating:

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

Military Type Designation	Number of poles	Dimensions	
		A	B
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

MM=Dim X 25.4

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

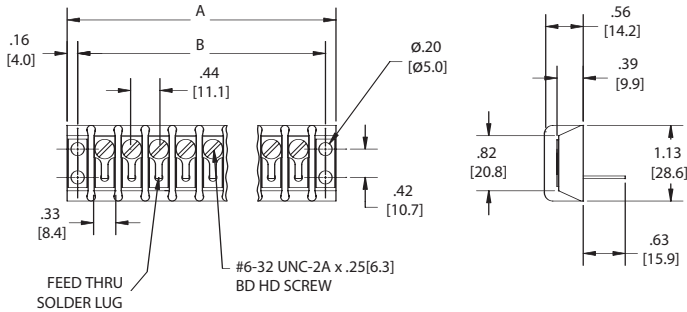
Electrical Rating:

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

Military Type Designation	Number of poles	Dimensions	
		A	B
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

MM=Dim X 25.4

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



Molded Material:

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

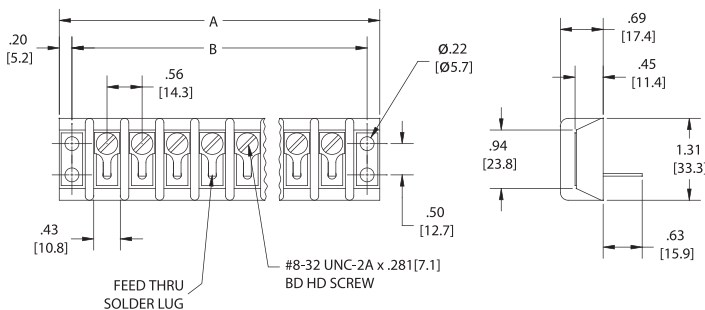
Electrical Rating:

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

Military Type Designation	Number of poles	Dimensions	
		A	B
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

MM=Dim X 25.4

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



Molded Material:

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

Electrical Rating:

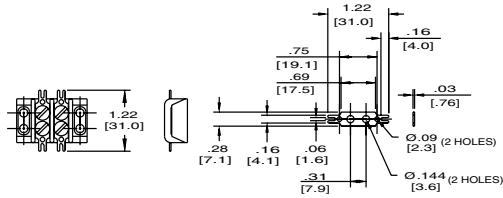
- Rated voltage (maximum): 600 volts
- Current rating: 15 Amps
- D.W.V.: 3400 volts RMS

Military Type Designation	Number of poles	Dimensions	
		A	B
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

MM=Dim X 25.4

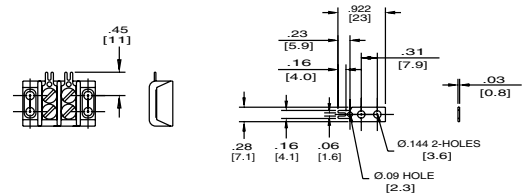
Kulka® Military Class (A-A-59125)/(MIL-T-55164) (Solder Hardware Dimensions are not to Mil Spec)

37TBLD (Commercial Equivalent)



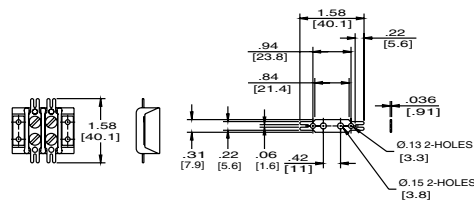
This is an assembly of the 37TB Class Terminal Board and a two-sided terminal lug (ST600). Available in lengths from 2 terminals through 31 terminals. Lugs are brass and are tin plated.

37TBLS (Commercial Equivalent)



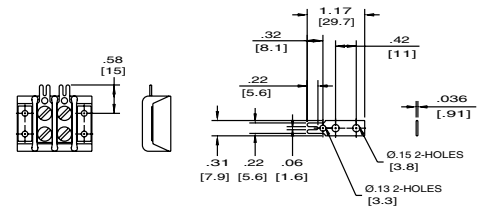
This is an assembly of the 37TB Class Terminal Board and a one-sided terminal lug (3/4 ST600). Available in lengths from 2 terminals through 31 terminals. Lugs are brass and are tin plated.

38TBLD (Commercial Equivalent)



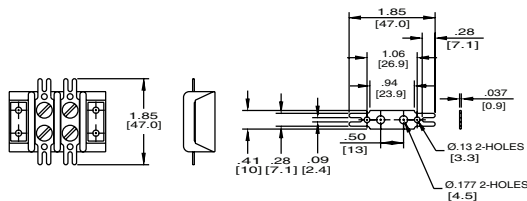
This is an assembly of the 38TB Class Terminal Board and a two-sided terminal lug (ST601). Available in lengths from 2 terminals through 23 terminals. Lugs are brass and are tin plated.

38TBLS (Commercial Equivalent)



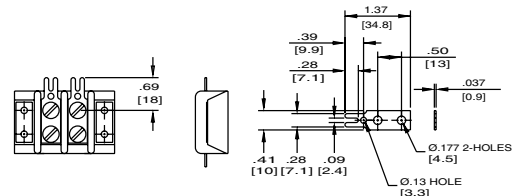
This is an assembly of the 38TB Class Terminal Board and a one-sided terminal lug (3/4 ST601). Available in lengths from 2 terminals through 23 terminals. Lugs are brass and are tin plated.

39TBLD (Commercial Equivalent)



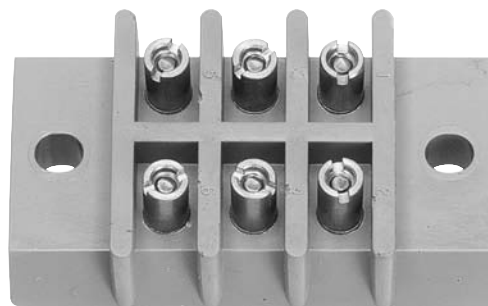
This is an assembly of the 39TB Class Terminal Board and a two-sided terminal lug (ST602). Available in lengths from 2 terminals through 18 terminals. Lugs are brass and are tin plated.

39TBLS (Commercial Equivalent)



This is an assembly of the 39TB Class Terminal Board and a one-sided terminal lug (3/4 ST602). Available in lengths from 2 terminals through 18 terminals. Lugs are brass and are tin plated.

Kulka® Navy Class (A-A-59125)/(MIL-T-55164)



A-A-59125/ MIL-T-55164 Information		Terminal Type	Voltage		Current	Wire & Lug Information				
Class	Spec #		Description	Max Rated		Dielectric with Test	Max Rated	Screw Size	RECMD Max Wire Size	MS17143 Lug #
3 TB	/ 9	Single Stud Single Row	600 V RMS	2000 V 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 8 TBHT	/ 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]
18 TB	/ 22	Single Stud Single Row	600 V RMS	2200 V RMS	45 Amp 60 Hz	#8	#10 AWG	-3	0.395" [10.0]	16-18 [1.8-2.0]
25 TB 25 TBHT	/ 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 26 TBHT	/ 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]

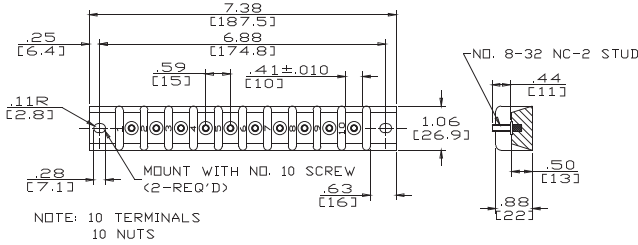
Notes:

Molded materials is MAI-60 in accordance with MIL-M-14.

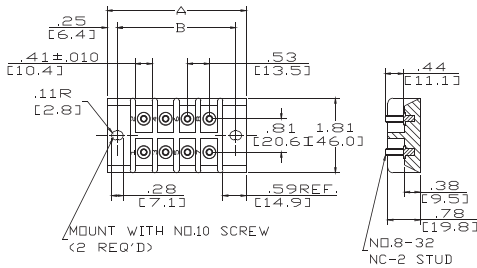
The stud connector for these terminal boards is considered part of the stud and is required, unless otherwise specified. With the stud connector removed, the terminal board will provide twice the number of connection points and allow for an additional wire per terminal. Nuts and connectors are unplated brass and shipped unassembled.

Kulka® Navy Class (A-A-59125)/(MIL-T-55164)

3TB (A-A-59125/9)/(MIL-T-55164/9)



4TB (A-A-59125/10)/(MIL-T-55164/10)

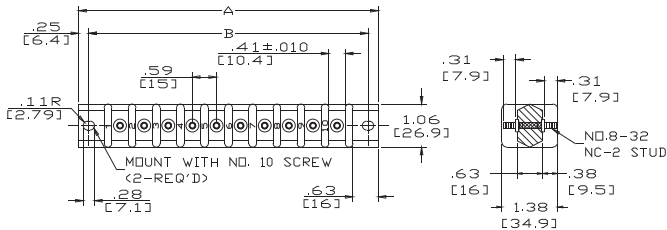


Double Row, Front Connection

Type	Number of Terminals	Dim. A	Dim. B	Nuts
4 TB 08F	8	3.38	2.88	8
4 TB 20F	20	6.50	6.00	20

MM = Dim X 25.4

5TB (A-A-59125/11)/(MIL-T-55164/11)

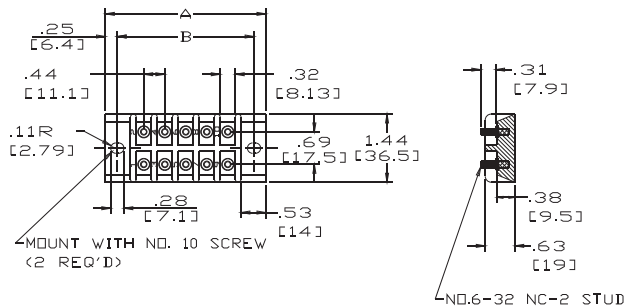


Single Row, Through Connection

Type	Number of Terminals	Dim. A	Dim. B	Nuts
5 TB 08F	8	6.13	5.63	16
5 TB 10F	10	7.38	6.88	20

MM = Dim X 25.4

6TB (A-A-59125/12)/(MIL-T-55164/12)



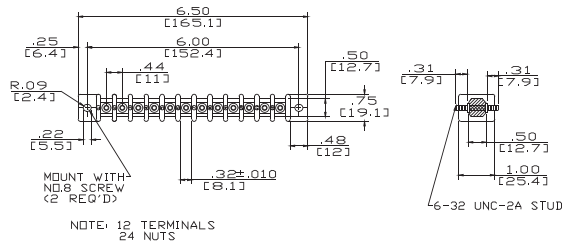
Double Row, Front Connection

Type	Number of Terminals	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

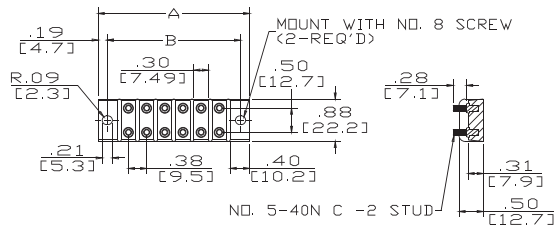
MM = Dim X 25.4

Kulka® Navy Class (A-A-59125)/(MIL-T-55164)

7TB (A-A-59125/13)/(MIL-T-55164/13)



8TB (A-A-59125/14)/(MIL-T-55164/14)

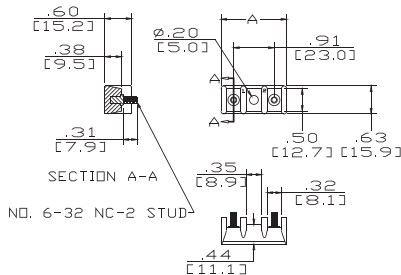


Double Row, Linked Front Connection

Type	Number of Terminals		Dim. A	Dim. B	Nuts
	w/stud connectors	w/o stud connectors			
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

MM = Dim X 25.4

9TB (A-A-59125/15)/(MIL-T-55164/15)

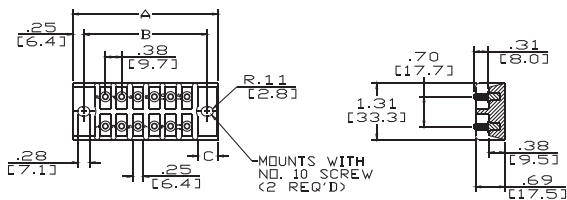


Single Row, Front Connection

Type	Number of Terminals	Dim. A	Nuts
9 TB 02F	2	1.48	2
9 TB 04F	4	2.37	4

MM = Dim X 25.4

10TB (A-A-59125/16)/(MIL-T-55164/16)

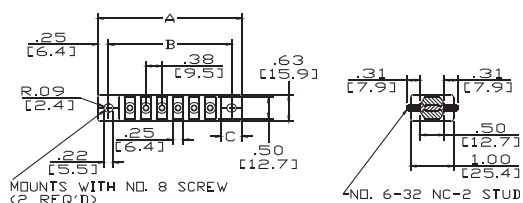


Double Row, Front Connection

Type	Number of Terminals	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

MM = Dim X 25.4

11TB (A-A-59125/17)/(MIL-T-55164/17)



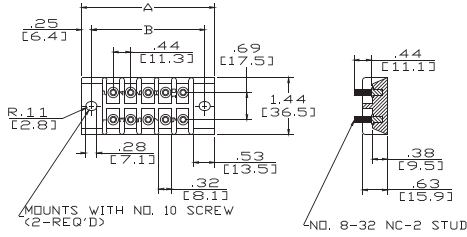
Single Row, Through Connection

Type	Number of Terminals	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

MM = Dim X 25.4

Kulka® Navy Class (A-A-59125)/(MIL-T-55164)

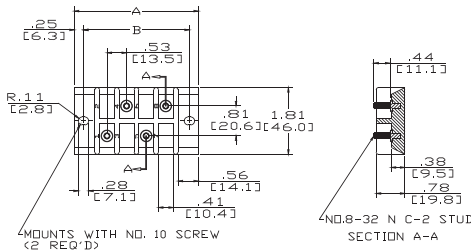
15TB (A-A-59125/19)/(MIL-T-55164/19)



Double Row, Front Connection				
Type	Number of Terminals	Dim. A	Dim. B	Nuts
15 TB 10F	10	3.38	2.88	10
15 TB 24F	24	6.50	6.00	24

MM = Dim X 25.4

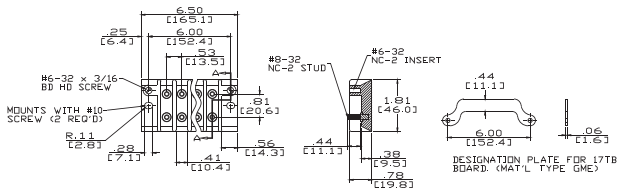
16TB (A-A-59125/20)/(MIL-T-55164/20)



Double Row, Front Connection				
Type	Number of Terminals	Dim. A	Dim. B	Nuts
16 TB 04F	4	3.38	2.88	4
16 TB 10F	10	6.50	6.00	10

MM = Dim X 25.4

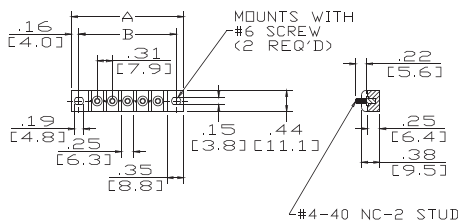
17TB (A-A-59125/21)/(MIL-T-55164/21)



Double Row, Front Connection					
Type	Number of Terminals		Dim. A	Dim. B	Nuts
	w/stud connectors	w/o stud connectors			
17 TB 10F	10	20	6.50	6.00	10

MM = Dim X 25.4

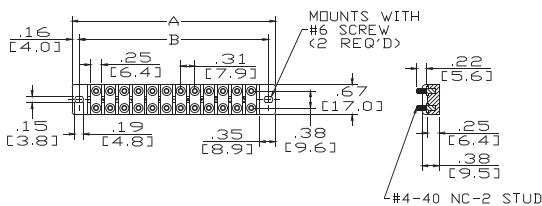
25TB (A-A-59125/23)/(MIL-T-55164/23)



Single Row, Front Connection				
Type	Number of Terminals	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

MM = Dim X 25.4

26TB (A-A-59125/24)/(MIL-T-55164/24)



Double Row, Linked Front Connection					
Type	Number of Terminals		Dim. A	Dim. B	Nuts
	w/stud connectors	w/o stud connectors			
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

MM = Dim X 25.4

Studded Power Feed Thru Terminal Blocks

ST722 Family

These terminal blocks were designed for applications where power feed thru is necessary using standard double hole lugs with .625" spacing.

These terminal blocks are available in three mounting options (end mount, back mount, and slide-in mount) and are offered in various line lengths.

These terminal blocks lower cost by eliminating multiple components and assembly time. The terminal blocks are manufactured from top quality insulator and conductor materials. Designed with a robust one-piece insulator base using a one-piece conductor permanently assembled together.

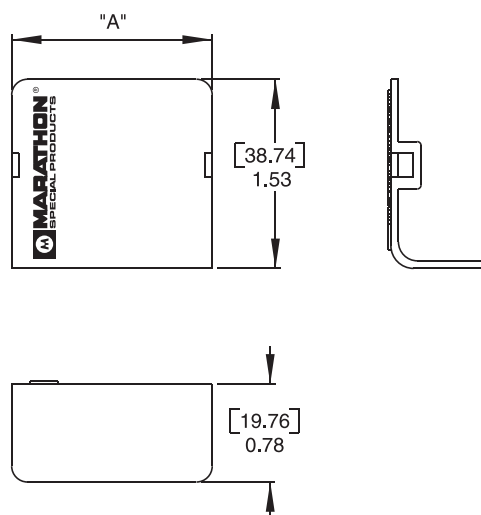
Offered with various hardware options (See Description Below).

Covers are molded using a one-piece design and are available as an option for all series of terminal blocks.

Optional Cover Available:

- Cover is offered in 1 – 6 poles
- One cover accommodates all series
- Base, Thermoplastic
- Flammability UL 94 V-0

Catalog Number	Number of Poles	Dimensions A
C72201	1	0.91
C72202	2	1.64
C72203	3	2.37
C72204	4	3.10
C72205	5	3.83
C72206	6	4.56



Series	Mounting	Stud		Poles		Hardware	
ST722	B	2	5	0	2		
	B – Back Mount S – Slide Mount E – End Mount	25 – 1/4" Stud		(Back Mount) 02 – 06 (Slide Mount) 01 – 04 (End Mount) 01 – 06		(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

ST722B25 Series (back mount)

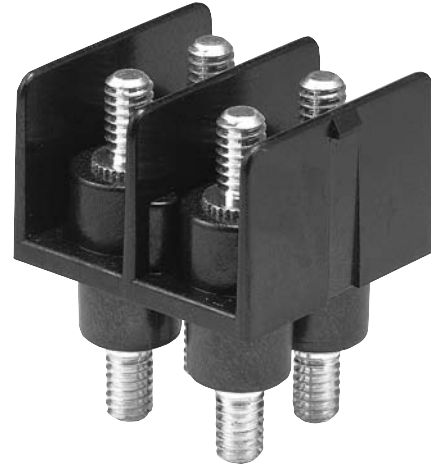
Specifications:

Electrical:

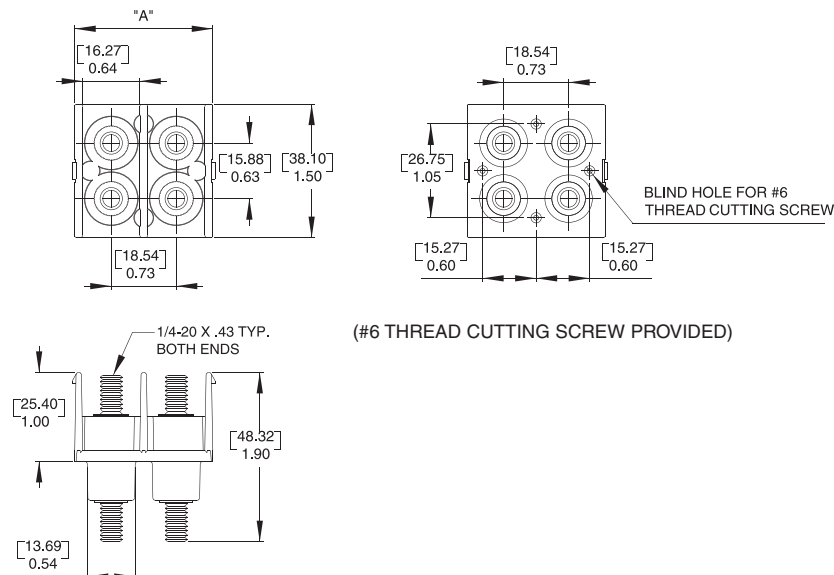
- 300 Volts (UL 1059 Class B and C)
- 175 Amps
- Wire Range #2/0 - #8
- (Accommodates Two Hole Compression Lugs on .625" Centers – wires #2 and larger may require narrow lugs)

General/Mechanical:

- Base, Thermoplastic, 125° C (UL RTI)
- Studs, 1/4 - 20 Brass, Nickel Plated
- 2 – 6 Poles
- .73" Centers
- Application Torque 50 lb-in
- Inquire About Alternate Stud Sizes
- The Suitability of These Devices for Greater Currents Shall Be Determined in the End-Use Application
- UL Recognized File No. E62806
- CSA Certified File No. LR19766
- CE



Catalog Number	Number of Poles	Dimensions A
ST722B2502	2	1.55
ST722B2503	3	2.28
ST722B2504	4	3.01
ST722B2505	5	3.74
ST722B2506	6	4.47



Studded Power Feed Thru Terminal Blocks

ST722S25 Series (slide-in mount)

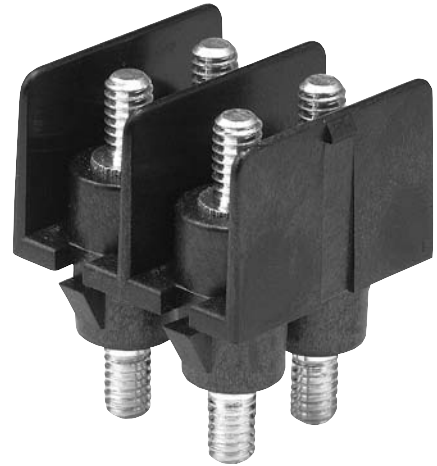
Specifications:

Electrical:

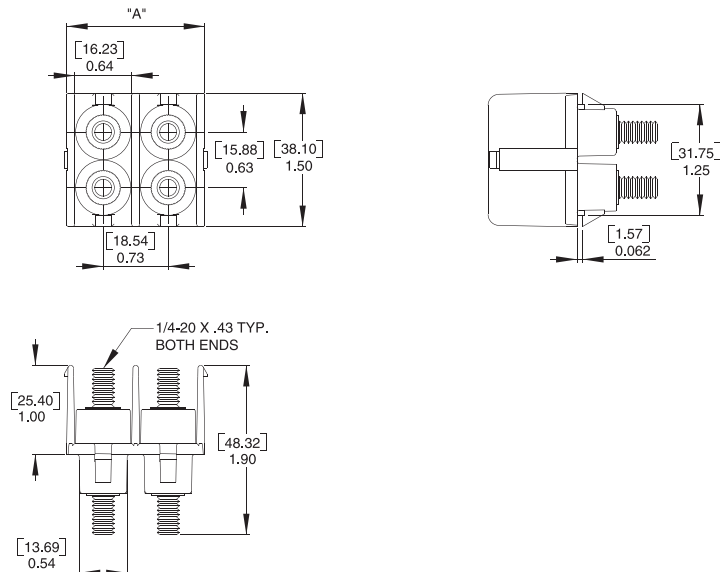
- 300 Volts (UL 1059 Class B and C)
- 175 Amps
- Wire Range #2/0 - #8
- (Accommodates Two Hole Compression Lugs on .625" Centers – wires #2 and larger may require narrow lugs)

General/Mechanical:

- Base, Thermoplastic, 125° C (UL RTI)
- Studs, 1/4 - 20 Brass, Nickel Plated
- 1 – 4 Poles
- .73" Centers
- Application Torque 50 lb-in
- Inquire About Alternate Stud Sizes
- The Suitability of These Devices for Greater Currents Shall Be Determined in the End-Use Application
- UL Recognized File No. E62806
- CSA Certified File No. LR19766
- CE



Catalog #	Number of Poles	Dimensions A
ST722S2501	1	0.82
ST722S2502	2	1.55
ST722S2503	3	2.28
ST722S2504	4	3.01



Studded Power Feed Thru Terminal Blocks

ST722E25 Series (end mount)

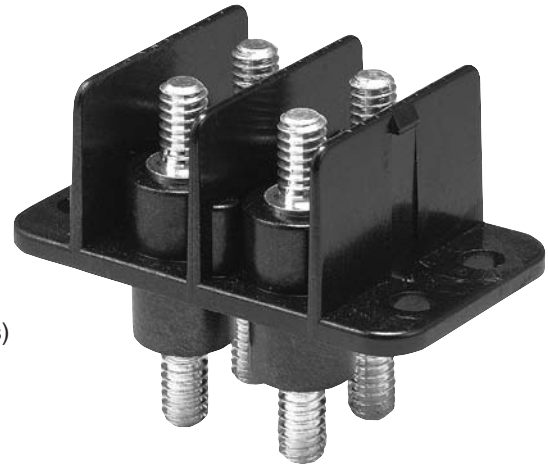
Specifications:

Electrical:

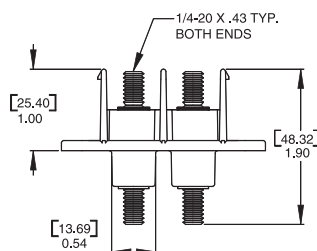
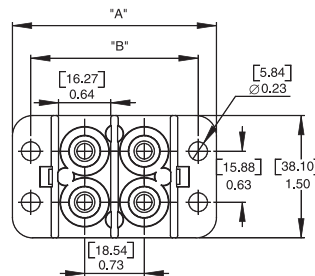
- 300 Volts (UL 1059 Class B and C)
- 175 Amps
- Wire Range #2/0 - #8
- (Accommodates Two Hole Compression Lugs on .625" Centers – wires #2 and larger may require narrow lugs)

General/Mechanical:

- Base, Thermoplastic, 125° C (UL RTI)
- Studs, 1/4 - 20 Brass, Nickel Plated
- 1 – 6 Poles
- .73" Centers
- Application Torque 50 lb-in
- Inquire About Alternate Stud Sizes
- The Suitability of These Devices for Greater Currents Shall Be Determined in the End-Use Application
- UL Recognized File No. E62806
- CSA Certified File No. LR19766
- CE



Catalog Number	Number of Poles	Dimensions A	Dimensions B
ST722E2501	1	1.77	1.32
ST722E2502	2	2.50	2.05
ST722E2503	3	3.23	2.78
ST722E2504	4	3.96	3.51
ST722E2505	5	4.69	4.24
ST722E2506	6	5.42	4.97



Studded Power Feed Thru Terminal Block

ST723B3802

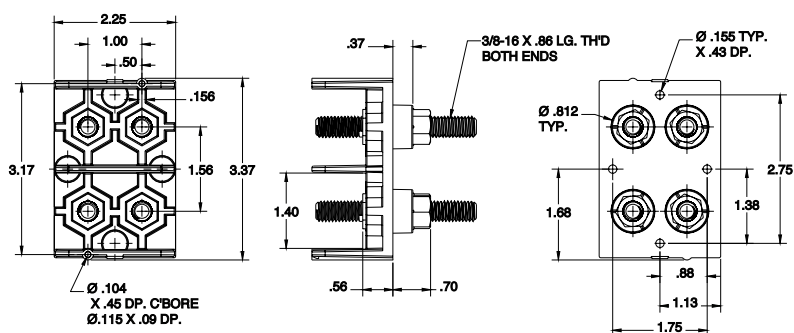
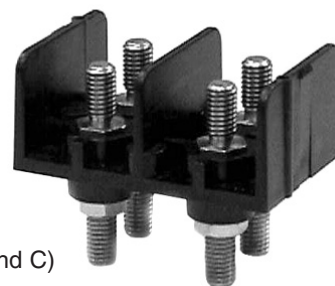
Specifications:

Mechanical:

- Base, Thermoplastic, 125° C (UL RTI)
- Flammability, UL 94 V-O
- Studs, 3/8" - 16 Brass, Nickel Plated
- Mounting hardware included (4) #10-32 screws
- Wire termination hardware not included
- Application Torque 192 lb-in.
- UL Not Submitted
- CSA Not Submitted

Electrical:

- 600 Volts (UL 1059 Class B and C)
- 380 Amps
- Wire Range #500 MCM - #2/0 AWG
- (Accommodates Two Hole Compression Lugs on 1" Centers – wires larger than 250 MCM require narrow lugs)

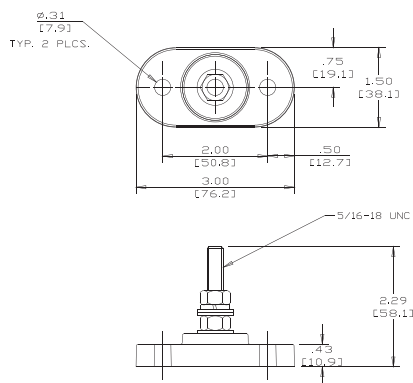


Single Stud Connection Block

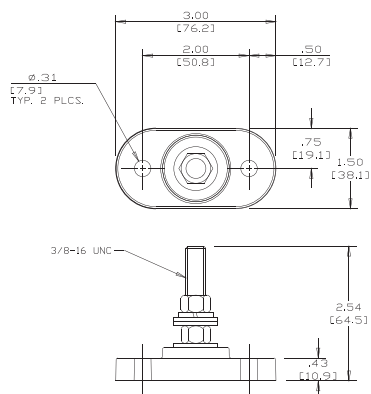


Specifications:

- Base, Thermoplastic
- Temperature rating of 125° C (UL RTI)
- Hardware, Stainless Steel
- 300V
- Recommended Mounting Screw 1/4"
- Available with two stud sizes: 5/16" or 3/8"
- Designed for two or more wire lugs



5/16" Stud
Catalog# ST 710 31



3/8" Stud
Catalog# ST 710 38

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6TBF Series	132	133X558	46	144X401	39
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6T100A	17	133X563	44	144X553	44
6T200A	17	133X564	44	144X557	42
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10TBF Series	133	133X596	40	145X301	43
11TBF Series	133	133X597	40	145X411	41
15TBF Series	134	133X598	41	145X552	40
16TBF Series	134	133X953	41	145X573	44
17TBF Series	134	133X955	41	145X579	40
25TBF Series	134	140X303	42	145X583	44
26TBF Series	134	140X401	39	145X586	41
37TBB Series	126	140X402	39	145X587	41
37TBF Series	127	140X404	39	145X592	41
37TBLD	130	140X801	42	145X594	40
37TBLS	130	141X200	45	145X596	46
38TBF Series	127	141X201	45	145X599	46
38TBLD	130	141X202	45	145X606	44
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602 GP Series	83	MIK5	118		
602-2202	98	MIK10	119		
603 GP Series	84	MIK16	120		
603-2302	98	MIK25	121		
604 GP Series	85	MIKE4	124		
604-2402	98	MIKE10	124		
605 GP Series	86	MIKE16	124		
605-2502	98	MIKSI5	123		
621 RZ Series	87	MIKTS4	122		
649 Series	97	Power Block Covers	49		
650 Series	97	R30A Series	11		
651 Series	97	R60A Series	11		
652 Series	97	R100A Series	11		
699 Series	66	R200A Series	11		
699-2102	98	R400A Series	11		
699-2104	98	R600A Series	11		
699-2120	98	R6CC60 Series	25		
699-2121	98	R6F30A Series	8		
670A GP Series	74	R6F60A Series	8		
670A RZ Series	88	R6F100A Series	8		
671 GP Series	75	R6F400A Series	8		
671 RZ Series	89	R6J30A Series	21		
672 GP Series	77	R6J60A Series	21		
672 RZ Series	90	R6T30A Series	17		
812 Series	67	R6T60A Series	17		
812-2202	98	RF30A Series	7		
812-2204	98	RF60A Series	7		
985 Series	59	RF100A Series	7		
1100 Series	56	RF400A Series	7		
1103P	57	RG15A Series	27		
1200 Series	57	RG20A Series	27		

Terms & Conditions

ALL QUOTATIONS ARE MADE AND ALL ORDERS ARE ACCEPTED BY MARATHON SPECIAL PRODUCTS CORPORATION SUBJECT ONLY TO THESE TERMS AND CONDITIONS.

1. MODIFICATIONS OF SALES TERMS

Any Terms and Conditions contained in any purchase order or other form of communication from Marathon's customers which are additional or different from these Terms and Conditions shall be deemed rejected by Marathon unless expressly accepted in writing by Marathon. In general, no modification, amendment, waiver or other change of any of these Terms and Conditions and those contained on the reverse side hereof and/or in attachments hereto ("Terms and Conditions"), or of any of Marathon's rights or remedies thereunder, shall be binding on Marathon unless expressly accepted in writing by Marathon's authorized officers at Marathon's home office. No course of dealing, usage of trade or course of performance shall be relevant to explain or supplement any of these Terms and Conditions. In cases of conflict between the Terms and Conditions printed on this page and those contained on the face side or in attachment hereto, the latter shall control. If any document issued by any party hereto is sent by facsimile or another form of electronic document transmission, the parties hereto agree that (a) the copy of any such document printed on the facsimile machine or printer of the recipient thereof is a counterpart original copy thereof and is a "writing", (b) delivery of any such other form of electronic document to the recipient thereof by facsimile or such other form of electronic document transmission is authorized by the recipient thereof and is legally sufficient for all purposes as if delivered by United States mail, (c) the typewritten name of an authorized agent of the party sending such document on any such document is sufficient as a signature thereon and behalf of such party and the intent of such signature is to authenticate the writing, and (d) an electronically stored and reproduced copy of any such document shall be deemed to be legally sufficient evidence of the terms of such document for all purposes.

2. ACCEPTANCE OF ORDERS

Acceptance by Marathon of Buyer's purchase order(s) is expressly conditioned upon Buyer's assent to these Terms and Conditions. Buyer will be deemed to have assented to such Terms and Conditions unless Marathon receives written notice of any objection within fifteen (15) days after Buyer's receipt of this form and in all events prior to any delivery or other performance by Marathon of Buyer's order.

3. QUOTATIONS

Quotations by Marathon shall be deemed to be offers by Marathon to sell the equipment described therein subject to these Terms and Conditions, and acceptance of such offers is expressly limited to acceptance by Buyer of all of these Terms and Conditions within thirty (30) days from the date of the quotation. Purchase orders submitted by Buyer for the equipment quoted by Marathon shall be subject to and will be deemed to constitute acceptance of these Terms and Conditions. All purchase orders will be subject to approval by Marathon at Marathon's home office.

4. PRICES: PRICE CHANGES

All prices are net F.O.B. shipping point and are subject to change without notice. In the event of a change in Marathon's prices, the price for equipment unshipped will be the price in effect on the date of shipment.

If Marathon's quoted price was based on delivery to and acceptance by Buyer of a specified quantity of equipment, such price shall be subject to adjustment if Buyer does not accept the quantity at the times specified in Marathon's quotation, and Buyer will be invoiced at Marathon's standard price without quantity discounts, if any, for the quantity of equipment actually accepted by Buyer.

5. TAXES

In addition to any prices, Buyer shall pay the amount of any present or future manufacturer's tax,

retailer's occupation tax, use tax, sales tax, excise tax, duty, custom, inspections or testing fee, or any other tax, fee or charge of any nature whatsoever imposed by any government authority, on or measured by the transaction between Marathon and Buyer. In the event Marathon is required to pay any such tax, fee or charge, Buyer shall reimburse Marathon therefor, or, in lieu of such payment, Buyer shall provide Marathon at the time the order is submitted with an exemption certificate or other document acceptable to the authority imposing such tax, fee or charge.

6. TERMS OF PAYMENT

All orders are subject to the approval of Marathon at its home office. Terms of payment are cash in full no later than thirty (30) days from date of shipment, without discount. If, during the period of performance of an order, the financial condition of Buyer is determined by Marathon not to justify the terms of payment specified, Marathon 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 this contract. If delivery is deferred, the equipment may be stored as provided in Section 9 hereof and Marathon may submit a new estimate of cost for completion based upon prevailing conditions. If Buyer defaults in any payment when due, or in the event 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 Marathon, at its option without prejudice to its other lawful remedies, may defer delivery or cancel this contract.

Prorata payments shall become due as shipments are made. If shipments are delayed by the Buyer for any cause, payments shall become due from the date on which Marathon is prepared to make shipment and storage shall be at the Buyer's risk and expense as provided in Section 9 hereof. If manufacture is delayed by the Buyer for any cause, a Partial payment based upon the proportion of the order completed shall become due from the date on which Marathon is notified of the delay.

7. DELIVERY; RISK OF LOSS

All sales are F.O.B. Marathon's plant or other point of shipment designated by Marathon. Shipping dates are estimates only which are not guaranteed and are based upon prompt receipt from Buyer of all necessary shipping and other information. Marathon reserves the right to make delivery in installments. All installments to be separately invoiced and paid for by Buyer when due per invoice, without regard to subsequent deliveries.

Delivery of equipment to a commercial carrier at Marathon's plant or other loading point shall constitute delivery to Buyer, and any risk of loss and further cost and responsibility thereafter for claims, delivery, loss or damage, including if applicable, placement and storage shall be borne by Buyer. When equipment is delivered by Marathon's truck, unloading at Buyer's dock shall constitute delivery to Buyer. Claims for shortages or other errors in delivery must be made in writing to Marathon within ten (10) days after receipt of shipment and failure to give such notice shall constitute unqualified acceptance and a waiver of all such claims by Buyer. Claims for loss or damage to equipment in transit by common carrier must be made to the carrier and not to Marathon. Freight and handling charges by Marathon may not reflect actual freight charges prepaid to the carrier by Marathon due to incentive discounts earned by Marathon based upon Marathon'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 Marathon's freight and handling charges were based. When shipments are delivered in Marathon's private trucks, Buyer will be charged an amount approximating the prevailing common carrier rate.

8. EXCUSABLE DELAYS FORCE MAJEURE

Marathon shall not be liable for any loss or damage as a result of Marathon's delay in or failure of delivery or installation due to (i) any cause beyond Marathon's reasonable control, (ii) an act of God, act of the Buyer,

embargo or other governmental act, authority regulation or request, fire, theft, accident, strike, slow-down or other labor disturbance, war, riot, delay in transportation, or (iii) inability to obtain necessary labor, materials, components or facilities.

Should any of the aforementioned events of force majeure occur, Marathon at its option, may cancel Buyer's order with respect to any undelivered equipment 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 Marathon elects to so cancel the order Marathon shall be released of and from all liability for failure to deliver the equipment 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.

If shipping or progress of the work is delayed or interrupted by Buyer, directly or indirectly, Buyer shall pay Marathon for all additional charges resulting therefrom.

9. STORAGE

If the equipment is not shipped within thirty (30) days after notification has been made to Buyer that it is ready for shipping, for any reason beyond Marathon's control, including Buyer's failure to give shipping instructions, Marathon may store the equipment at Buyer's risk and expense in a warehouse or upon Marathon's premises, and Buyer shall pay all handling, transportation and storage costs at the prevailing commercial rates promptly following Marathon's submission of invoices for such costs.

10. WARRANTIES TO DISTRIBUTORS AND INDUSTRIAL OR COMMERCIAL CUSTOMERS

This warranty is extended only to Marathon's distributors and industrial or commercial customers and does not apply to consumer purchasers.

Warranty Period - Marathon warrants products manufactured by it to be free from defects in materials and workmanship and to conform to Marathon's written specifications for a period of twelve (12) months from date of first use or eighteen (18) months from date of manufacture whichever period shall expire first.

Warranty Remedies - If prior to expiration of the foregoing warranty period, any product shall be proved to Marathon's satisfaction to be defective or non-conforming, Marathon will repair or replace such defective equipment or components thereof. F.O.B. Marathon's plant or other destination designated by Marathon or will refund or credit by Marathon, the purchase price paid therefor by Buyer, at Marathon's sole option. Buyer's exclusive remedy and Marathon's sole obligation under this warranty shall be limited to such repair or replacement, F.O.B. Marathon's plant or other destination designated by Marathon or refund or credit by Marathon, and shall be conditioned upon Marathon's receiving written notice of any defect within sixty (60) days after it was discovered or by reasonable care should have been discovered. In no event shall Marathon's liability for such defective or nonconforming products exceed the purchase price paid by Buyer therefore.

Exclusions - This warranty does not (i) cover shipping expenses to and from Marathon's factory or other destination designated by Marathon for repair or replacement of defective equipment or any tax, duty, custom, inspection or testing fee, or any other charge of any nature related thereto, nor does it cover the costs of removing defective equipment or reinstalling repaired or replaced equipment, (ii) apply and shall be void with respect to equipment operated in excess of rated capacity or otherwise not in accordance with installation, maintenance or operating instructions or requirements, to equipment repaired or altered by others than Marathon or Marathon's authorized service agencies, or to equipment which was subjected to abuse, negligence, misuse, misapplication, accident, damages by circumstances beyond Marathon's control, to improper installation (if by others than Marathon), operation, maintenance or storage, or to other than normal use or service, and (iii) apply to equipment or components not manufactured by Marathon. With

Terms & Conditions

respect to equipment or components not manufactured by Marathon, Marathon's warranty obligations shall in all respects conform and be limited to the warranty actually extended to Marathon by its suppliers but in no event shall Marathon's obligations be greater than those provided under Marathon's warranty set forth in this Section 10.

THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER EXPRESS AND IMPLIED WARRANTIES (EXCEPT TITLE), INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. NO EMPLOYEE, REPRESENTATIVE, OR AGENT OF MARATHON OTHER THAN AN OFFICER OF MARATHON IS AUTHORIZED TO ALTER OR MODIFY ANY PROVISION OF THIS SECTION 10 OR TO MAKE ANY GUARANTEE, WARRANTY, OR REPRESENTATION, EXPRESS OR IMPLIED, ORALLY OR IN WRITING, WHICH IS CONTRARY TO THE FOREGOING. Any description of the equipment, whether in writing or made orally by Marathon or Marathon's agent, 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 equipment and shall not be construed as an express warranty. Any suggestions by Marathon or Marathon's agents regarding use, application or suitability of the equipment shall not be construed as an express warranty unless confirmed to be such in writing by Marathon's authorized officer at Marathon's home office.

11. LIMITATIONS OF LIABILITY; CONSEQUENTIAL DAMAGES

Nuclear Use Disclaimer - Equipment sold by Marathon is not intended for use in connection with any nuclear facility or activity. If so used Marathon disclaims all liability for any nuclear damage, injury or contamination, and Buyer shall indemnify and hold Marathon, its officers, agents, employees, successors, assigns, and customers harmless from and against any and all losses, damages or expenses of whatever form or nature (including attorneys' fees and other costs of defending any action) which they or any of them may sustain or incur whether as a result of breach of contract, warranty, tort (including negligence) or otherwise, by reason of such use.

Consequential Damage Disclaimer - Marathon's liability with respect to equipment proved to its satisfaction to be defective within the warranty period shall be limited to repair, replacement or refund as provided in Section 10 hereof and in no event shall Marathon's liability exceed the purchase price of the equipment involved. Marathon shall not be subject to any other obligations or liabilities, whether arising out of breach of contract, warranty, tort (including negligence) or other theories of law, with respect to equipment sold or services rendered by Marathon, or any undertakings, acts or omissions relating thereto. Without limiting the generality of the foregoing, Marathon specifically disclaims any liability for property or personal injury damages, penalties, special or punitive damages, damages for lost profits or revenues, loss of use of equipment or any associated equipment, cost of capital, cost of substitute products, facilities or services, down-time, shut-down, or slow-down costs, or for any other types of economic loss, and for claims of Buyer's customers for any such damages.

MARATHON SHALL NOT BE LIABLE FOR AND DISCLAIMS ALL CONSEQUENTIAL, INCIDENTAL AND CONTINGENT DAMAGES WHATSOEVER. 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, MARATHON SHALL HAVE NO LIABILITY TO BUYER FOR CONSEQUENTIAL DAMAGES, SUCH AS LOST PROFITS, LOST REVENUE, DAMAGE TO OTHER EQUIPMENT OR LIABILITY OR INJURY TO A THIRD PARTY.

12. INDEMNIFICATION BY BUYER

Buyer shall indemnify, hold harmless, and defend

Marathon and Marathon's employees and agents from and against any and all damages, liability, claims, losses, and expenses (including reasonable attorneys' fees, court costs, and out-of-pocket expenses) arising out of or resulting in any way from claims by customers of Buyer or third parties against Marathon alleging a breach of contract or warranty by Marathon to the extent that such damages, liability, claims, losses, and expenses which may be payable by Marathon to Buyer pursuant to and as limited by Marathon's warranty and damage obligations as contained in Sections 10 and 11 hereof so as to effectively limit Marathon's obligations to customers of Buyer or third parties to those set forth in Sections 10 and 11 hereof.

13. PATENT INDEMNIFICATION

Marathon will at its own expense, defend or settle any suits that may be instituted against Buyer for alleged infringement by the equipment of any United States patent, provided that (a) such alleged infringements consists of the use of the equipment for any of the purposes for which such equipment was sold, (b) Buyer shall have made all payments for such equipment then due hereunder, (c) Buyer shall give Marathon immediate notice in writing of any such suit and transmit to Marathon immediately upon receipt all processes and papers served upon Buyer, and (d) Buyer shall permit Marathon through its counsel, either in the name of Buyer or in the name of Marathon, to defend such suit(s) and give all needed information, assistance and authority to enable Marathon to do so.

In case of a final award of damages in any such suit, Marathon will pay such award but will not be responsible for any compromise or settlement made without its written consent. In case the equipment itself is in such suit held to infringe any valid patent issued in the United States and its use enjoined, or in the event of a settlement or compromise approved by Marathon which shall preclude future use of the equipment sold to Buyer hereunder, Marathon shall, at its own expense and, at its sole option, either (a) procure rights to continue using such equipment, (b) modify the equipment to render it noninfringing, (c) replace the equipment with noninfringing equipment, or (d) refund the purchase price paid by Buyer for the equipment after return of the equipment to Marathon. Notwithstanding the foregoing, Marathon shall not be held responsible for infringements of combination or process patents covering the use of equipment in combination with other goods or materials not furnished by Marathon.

The foregoing states the entire liability of Marathon for patent infringement and **IN NO EVENT SHALL MARATHON BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES ATTRIBUTABLE TO AN INFRINGEMENT** nor for infringement based on the use of the equipment for a purpose other than that for which sold by Marathon. As to any equipment furnished by Marathon to Buyer manufactured in accordance with designs proposed or furnished by Buyer or any claim of contributory infringement resulting from the use or resale by Buyer of equipment sold hereunder, Buyer shall indemnify Marathon against any award made against Marathon for any patent, trademark or copyright infringements, including attorneys' fees and defense costs.

14. SECURITY AGREEMENT AND FINANCING STATEMENTS

To secure payment of the purchase price and of all monies which may be due hereunder, and performance of all of Buyer's obligations hereunder, Buyer hereby grants to Marathon a security interest in all equipment sold by Marathon, and agrees to execute such other Security Agreements and Financing Statements as Marathon may reasonably request.

15. INSURANCE

Until payment in full of the purchase price, Buyer shall maintain insurance covering all equipment sold by Marathon 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 Marathon's request, furnish evidence of such insurance satisfactory to Marathon.

16. DRAWINGS: OTHER DESIGN DATA

All specifications, drawings, design, data, information, ideas, methods, patterns and/or inventions made, conceived, developed or acquired by Marathon in connection with procuring and/or executing Buyer's order will vest in and inure to Marathon's sole benefit notwithstanding any changes therefor which may have been or may be imposed by Marathon.

Buyer shall not give, loan, exhibit, sell or transfer to any person not then employed by Buyer and authorized to receive such information, or to any organization or entity, any drawing, photograph, or specification furnished by Marathon or reproduction thereof which may enable such person, organization or entity to furnish similar goods or parts therefor.

17. RETURN OF EQUIPMENT

No equipment or part shall be returned to Marathon without written authorization and shipping instructions first having been obtained from Marathon.

18. ASSIGNMENT

None of the Buyer's rights under any order shall be assigned by the Buyer to any other person, whether by operation of law or otherwise, without Marathon's prior written approval. Marathon may, without the necessity of obtaining Buyer's prior written consent, subcontract the production of all or any portion of the equipment.

19. CANCELLATION

No order submitted to Marathon may be cancelled by Buyer without the prior written consent of Marathon, which consent will at all times be conditioned on Buyer's agreement to pay Marathon's cancellation charge. For finished equipment which in Marathon's judgment is readily resalable to others, the cancellation charge shall be 15% of the invoice price of the equipment. For all other cancellations the cancellation charge shall amount to all costs and expenses incurred by Marathon and arising out of or in connection with the Buyer's order, net of recoverability, but in no event less than 10% of the invoice price of the equipment or more than the invoice price.

20. GENERAL

Governing Law - These Terms and Conditions, and the contract of sale between Marathon and Buyer, shall be governed by and construed in accordance with the internal laws of the State of Ohio. Marathon and Buyer hereby agree that any legal action deemed necessary by either party hereto shall be brought in the Circuit Court in and for Wood County, Ohio and hereby consent to the personal jurisdiction of such court in any such action over the parties hereto. The rights and obligations of Marathon and Buyer shall not be governed by the provisions of the United Nations Convention on Contracts for the International Sales of Goods.

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.

Salvatory Clause - The invalidity, in whole or in part, of any of the provisions of these Terms and Conditions, shall not affect the enforceability of any of the other provisions thereof.

Applicability - The Terms and Conditions as stated herein are applicable as of the date of this printing and until such time as changed by Marathon.

Revised, January 2003

**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.

 **DANGER**

- Devices sold by Marathon Special Products provide for interconnection of electrical circuits and as 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.

 **WARNING**

- 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.

 **CAUTION**

- 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.

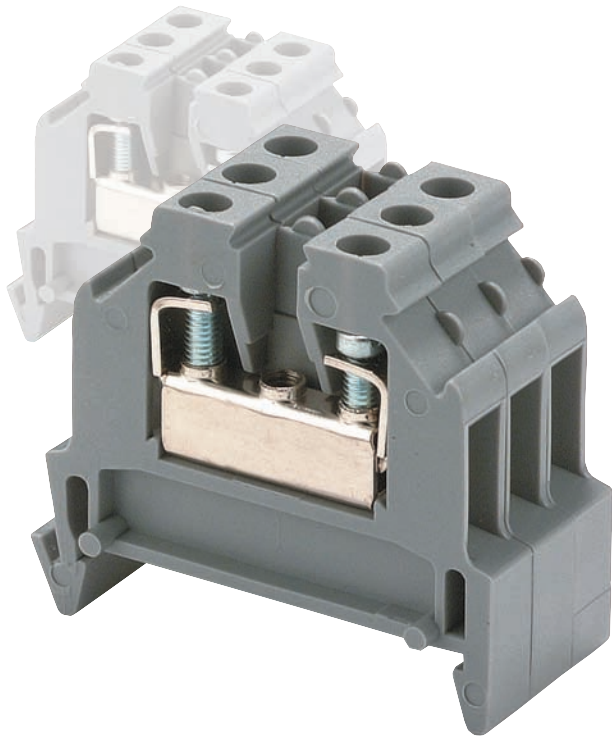
In the event of the resale of any goods, in whatever form, Resellers/Buyers will include the following language in a conspicuous place and in a conspicuous manner in a written agreement covering such sale:

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.

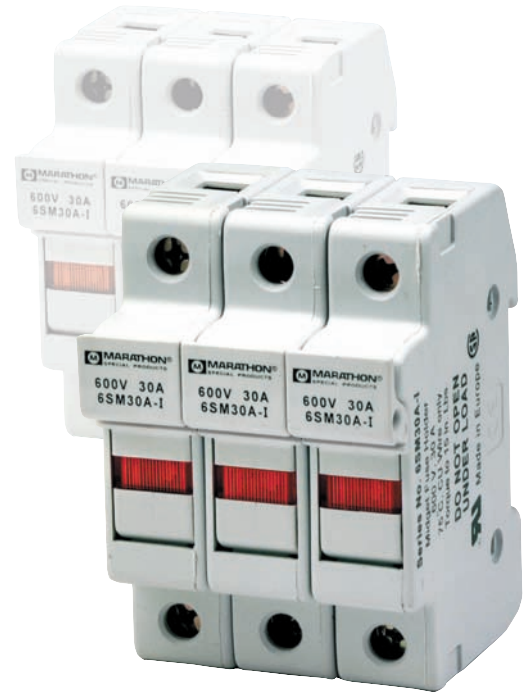
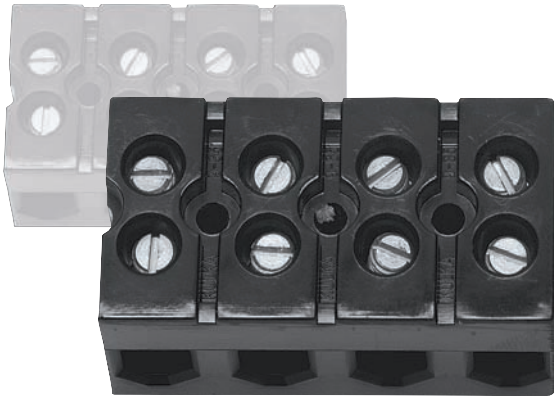
Resellers/Buyers agree to also include this entire document including the dangers, warnings and cautions listed above in a conspicuous place and in a conspicuous manner in writing to instruct users on the safe usage of the product.

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 Marathon Electric, 13300 Van Camp Road, Bowling Green, OH. 43402 Phone: 419-352-8441 Fax: 419-352-0875



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