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Catalog 1308389 Revised 6-07 Dimensions are in millimeters and inches unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

NEMA ETB Selector Chart

High Density Series 100 Medium Duty Series 900 High High High Medium Density Density Density Duty Miniature Single Tier Double Tier Direct Mount Direct Mount, Direct Mount, Channel only: Standard & Standard, Miniature Mounting Miniature Standard & Breakaway & Breakaway Channel Breakaway Channel Channels **AWG Wire** #30-12 #30-12 #30-12 #22-8 #22-8 10*, #22-14 #22-10 Range Tubular Tubular Strap Plug-In **Contact Types** Tubular Clamp Clamp Screw Screw R=Shipped with screws raised **B=**Shipped with 目 screws В В bottomed Ampacity 28A 28A 25A 30A 50A 35A*, 15A 30A 300 V 600 V Voltage 600 V 600 V 600 V 600 V 600 V 600 V (Limited Power Circuits) Center-to-.25" .25" .375" .375" .375" .375" 24" Center [6.35] [6.35] [6.10] [9.53] [9.53] [9.53] [9.53] Spacing Housing Nylon or PCT PCT PCT PCT Nylon Nylon Material Polypropylene Flammability UL94V-2 or UL94V-2 UL94V-2 UL94V-0 UL94V-0 UL94V-0 UL94V-0 Rating UL94V-0 Max. Service 125°C (257°F) or 125°C (257°F) 125°C (257°F) 150°C (302°F) 150°C (302°F) 150°C (302°F) 150°C (302°F) Temperature 105°C (222°F) Pages 246 250 250 250 251

*Acceptable for 35A max. factory wiring only when used with 10AWG wire preterminated with suitable ring tongue terminals.



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Note: All part numbers are RoHS Compliant.

NEMA ETB Selector Chart (Continued) **Medium Duty ERT Series Heavy Duty Series 200** Series 900 Medium Medium Duty Nylon or Duty **Radiation Resistant** Polypropylene **Direct Mount** Direct Mount or: Standard, Miniature Standard and Flat Base fits Miniature Channel. Dovetail Base fits Standard & Breakaway Channels Mounting & Breakaway Breakaway Channels Channels **AWG Wire** #18-6 #10 & #18-12 #22-8 #22-8 #10*, #22-14 #18-4 #18-8 Range smaller smaller Quick Tubular Quick Connect Tubular Tubular Strap Tubular Tubular Strap Strap **Contact Types** Connect Combination Clamp Screw Screw Clamp Screw Clamp Screw R=Shipped with പ്പ screws \mathbf{r} raised **B=**Shipped with 目 screws bottomed В В В В R В В B В Ampacity 20A 20A 30A 50A 35A*, 15A 65A 85A 50A 35A Voltage 300 V 600 V 600 V Center-to-.375" .375' .50" Center [9.53] [9.53] [12.70] Spacing Housing PCT Nylon or Polypropylene RYTON Material Flammability UL94V-0 UL94V-0 UL94V-2 or UL94V-0 Rating Max. Service 125°C (257°F) or 200°C (392°F) 150°C (302°F) Temperature 105°C (222°F) 251 Pages 250 252 260-261



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Note: All part numbers are RoHS Compliant.

NEMA ETB Selector Chart (Continued)

	Heavy Duty Series 200	Intermediate HD Series 800	Ultra Heavy Duty Series 400
		Intermediate	Ultra
	Phenolic	Heavy Duty	Heavy Duty
Mounting	Direct Mount or Standard & Breakaway Channels	Direct Mount or Standard & Breakaway Channels	Direct Mount or Standard & Breakaway Channels
AWG Wire Range	#18-6 #18-4 #18-8 #10 & smaller	#12-1/0	#12-2/0 kcmil (MCM)
Contact Types	Tubular Tubular Strap Strap Clamp Screw Clamp Screw	Tubular Screw	Tubular Tubular Screw Screw
 R=Shipped with screws raised B=Shipped with screws bottomed 		B	R R
Ampacity	65A 85A 50A 35A	150A	175A 255A
Voltage	600 V	600 V	600 V
Center-to- Center Spacing	.56" [14.22]	.75" [19.05]	1.19" [30.23]
Housing Material	Phenolic	Nylon	Phenolic
Flammability Rating	UL94V-1	UL94V-2	UL94V-1
Max. Service Temperature	150°C (302°F)	125°C (257°F)	150°C (302°F)
Pages	267-272	273-276	277-279

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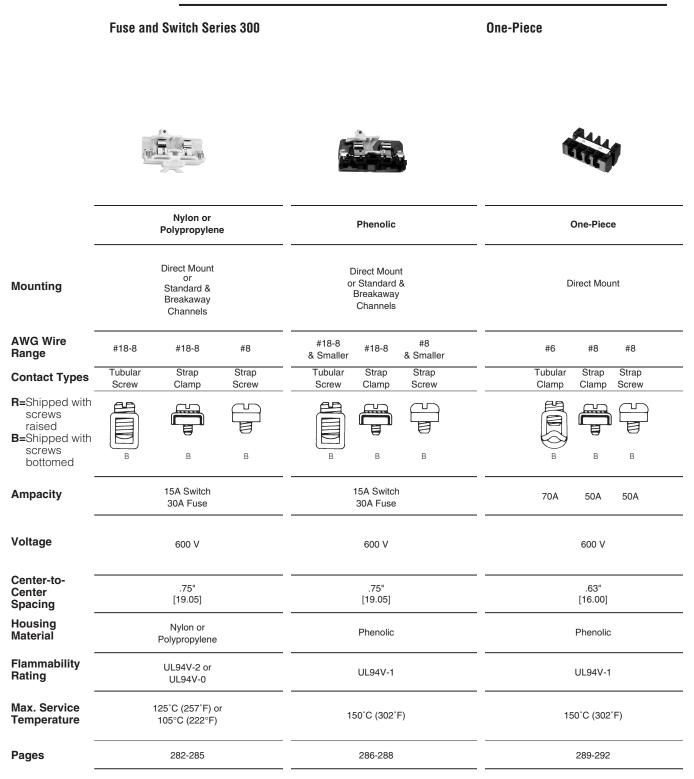
Catalog 1308389 Revised 6-07

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NEMA ETB Selector Chart (Continued)



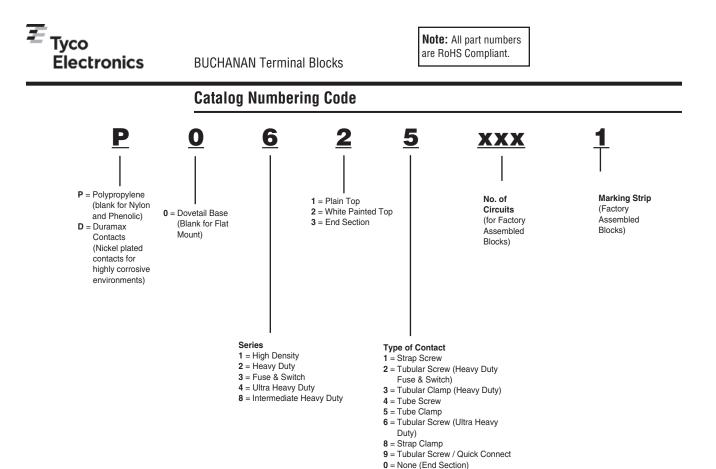
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Note: Some catalog number combinations are not valid. Check appropriate catalog pages before ordering.

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USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

100 Series High Density Miniature Blocks

Product Facts

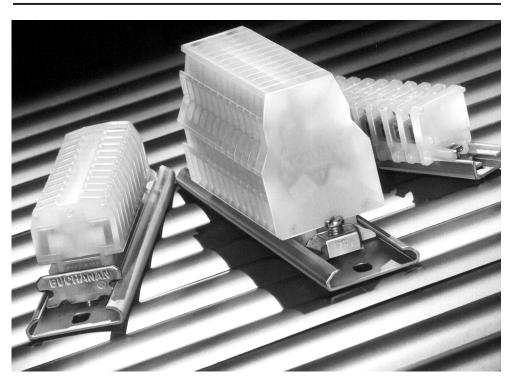
₹_{Тусо}

n No Wire Crimping Required tubular clamp contacts hold wire ranging from #30 to #12 AWG better than crimp-on terminals.

Electronics

- ${\rm n}$ Saves Installation Time and Costs — tubular clamp contacts are supplied with captive screws backed out.
- n Nylon housing standard; polypropylene for fire retardant characteristics.
- n Positive Stop helps prevent wire from being inserted too far, and helps prevent screw from being tightened on insulation. Easy access contact provides for safe, reliable, and costeffective connection.
- n Quick Installation and Change — additional sections may be added or removed without removing channel mounting screw.
- n Choice of Five Mounting **Channels:**
 - n Miniature aluminum
 - n Zinc-plated steel
 - n Pre-punched aluminum
 - n Break-away steel
- ${\rm n}$ Single and Double Tier blocks fit all standard **BUCHANAN** mounting channels. Single Tier blocks fit both miniature and standard channels.
- n Choice of Marking Surfaces - matte-finish area for marking directly on block; slide-in vinyl strip (blank or preprinted) also available.

These miniature terminal blocks fit on a much smaller channel to save valuable panel space or can be surface mounted directly to the panel. Miniature blocks accept wire as large as #12 AWG and are available in four styles: Miniature (nylon), Miniature (polypropylene), Single Tier and Double Tier.



NEMA Terminal Blocks



Catalog 1308389 Revised 6-07

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USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 8706-080-208

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100 Series High Density Miniature Blocks









Characteristics		niature Iylon		iature ropylene	Sing	le Tier	Doul	ble Tier
Type of Block	Model	Part Number	Model	Part Number	Model	Part Number	Model	Part Number
Standard Block	125-BU	2-1437392-3	P125	4-1437392-7	115-BU	1437381-5	105-BU	1-1437392-7
Corrosion Resistant (nickel plated contacts)	D125	3-1437389-3	DP125	7-1437389-1	D115	3-1437389-2	D105	2-1437392-9
Specifications								
Housing Material	Nylon	—	Polypropylene	_	Nylon	_	Nylon	_
Max. Service Temperature	125°C (257°F)	_	105°C (221°F)	_	125°C (257°F)	_	125°C (257°F)	_
Flammability	UL94V-2	_	UL94V-0	—	UL94V-2	_	UL94V-2	_
Wire Strip Length (in.)	5/16	_	5/16	_	5/16	_	5/16	_
Torque, in-lbs.	6-9	_	6-9	_	6-9	_	6-9	_
Electrical Characteristics								
UL Rating	20 A @ 300V	_	20 A @ 300V	_	20 A @ 600V	_	20 A @ 600V	_
Wire Range (solid & stranded)	30-12	_	30-12	_	30-12	_	30-12	_
Spacing Pitch	0.25"		0.25"		0.25"	_	0.24"	_
Terminals per Foot	48	_	48	_	48	_	102	_
Accessories								
End Section (gray)	130-BU	2-1437392-5	P130	4-1437392-9	120	2-1437392-1	110-BU	1-1437392-8
Jumper, 2 pole	10	1437381-1	10	1437381-1	10	1437381-1	_	_
Jumper, 10 pole	_	_		_		_	J10	3-1437392-1
Jumper, Inter-tier	—	_	_	—	_	—	J2-BU	3-1437392-2
Mounting Channel								
Miniature (3ft)	12	1437381-8	12	1437381-8	12	1437381-8		_
Steel, Zinc plated (6ft)	_	_	_	_	60	9-1437381-1	60	9-1437381-1
Steel, Zinc plated (3ft)	_	_	_	_	63-BU	9-1437381-8	63-BU	9-1437381-8
Breakaway, steel	_	_		_	60B36	9-1437381-2	60B36	9-1437381-2
Pre-punched aluminum (6ft)	_	_		_	64	9-1437381-9	64	9-1437381-9
Pre-punched aluminum (3ft)	_	_	_	—	67	1437382-2	67	1437382-2
Channel Clamps								
Miniature (use w/#12 channel)	11	1437381-4	11	1437381-4	11	1437381-4	_	_
Universal	_	_	_	_	68	1437382-3	68	1437382-3



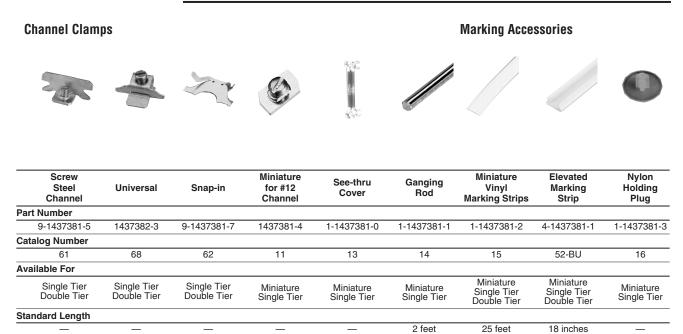
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100 Series High Density Miniature Blocks Accessories



Factory Assembled Blocks

Description	Direct Mount	Channel Mount
Miniature (nylon)	125xx	0125xx
	D125xx (nickel)	D0125xx (nickel)
Single Tier (nylon)	115xx	0115xx
	D115xx (nickel)	D0115xx (nickel)
Double Tier (nylon)	105xx	0105xx
	D105xx (nickel)	D0105xx (nickel)
Miniature (polypropylene)	P125xx	P0125xx
	DP125xx (nickel)	DP0125xx (nickel)

Note: xx = number of blocks desired. For factory assembled blocks with removable marking strip, add "-1" to Catalog Number. Minimum order quantities may apply.

Related Product Data

Wire Pins and Ferrules—Pages 109-111 For more information on AMP Standard Terminals and Splices or Quick-Connect FASTON Receptacles and Tabs, request Catalog 82042.

Catalog 1308389 Revised 6-07

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South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 8706-080-208

to

Note: All part numbers are RoHS Compliant.

Miniature Blocks

Miniature

C = .29 [7.37] + (.25 [6.35] X N) L = .51 [12.95] + (.25 [6.35] X N)

On Miniature Channel:

 $\begin{array}{l} {\sf CCH} = 1.00 \; [25.4] + (.25\; [6.35] \; X \; {\sf A}) \\ {\sf LCH} = 1.35\; [34.29] + (.25\; [6.35] \; X \; {\sf A}) \\ {\sf A} = {\sf N} \; {\sf when} \; {\sf N} \; {\sf is} \; {\sf even} \\ {\sf A} = {\sf N} + 1 \; {\sf when} \; {\sf N} \; {\sf is} \; {\sf Odd} \\ {\sf N} = {\sf No}. \; {\sf of} \; {\sf Miniature} \; {\sf Sections} \end{array}$

Single Tier

C = .35 [8.89] + (.25 [6.35] X N) L = .50 [12.7] + (.25 [6.35] X N)

On Standard Channel:

 $\begin{array}{l} C_{CH} = 2.00 \; [50.8] + (.25 \; [6.35] \; X \; N) \\ L_{CH} = 2.75 \; [69.85] + (.25 \; [6.35] \; X \; N) \\ N = No. \; of \; Single \; Tier \; Sections \end{array}$

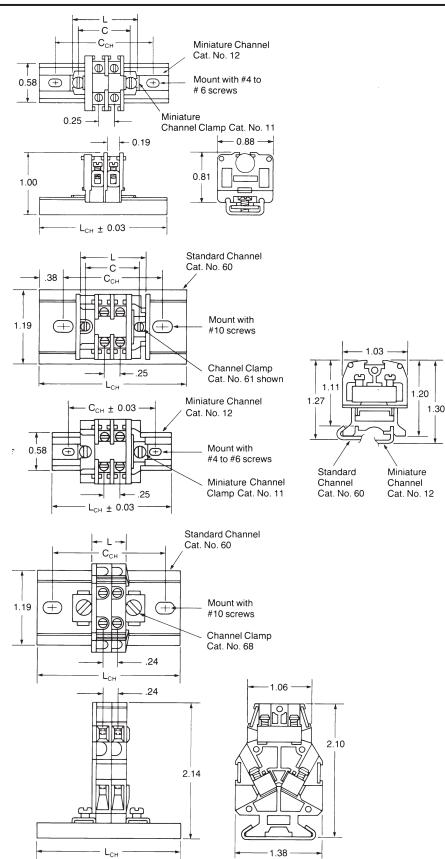
On Miniature Channel:

 $\begin{array}{l} C_{CH} = 1.00 \; [25.4] + (.25\; [6.35] \; X \; A) \\ L_{CH} = 1.35\; [34.29] + (.25\; [6.35] \; X \; A) \\ A = N \; when \; N \; is \; Even \\ A = N + 1 \; when \; N \; is \; Odd \\ N = No. \; of \; Single \; Tier \; Sections \end{array}$

Double Tier L = .08 [2.03] + (.24 [6.10] X N)

On Miniature Channel:

 $\begin{array}{l} C_{CH} = 1.58 \; [2.03] + (.24 \; [6.10] \; X \; A) \\ L_{CH} = 2.33 \; [59.18] + (.24 \; [6.10] \; X \; A) \\ N = No. \; of \; Double \; Tier \; Sections \end{array}$



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≢ Тусо Electronics

900 Series, Medium Duty

Product Facts

- n High circuit density 183 circuits per 6-foot length, 3/8 inch pitch.
- ${\rm n}$ Choice of five contact styles tubular clamp, tubular screw, strap screw, quick connect and tubular screw quick connect.
- n Sections snap-fit with Heavy Duty, Intermediate Heavy Duty, and Fuse & Switch blocks.
- n Readily identify circuits mark directly on block sections or use removable marking strip. Preprinted marking strips also available.
- n Rated up to 50 amperes per circuit.
- n Flat base models mount directly to surfaces or on miniature channel. Dovetail base mounts on standard size channel.
- n Packaged for rapid handling and assembly - 100 per carton.
- **n** Only one end section needed per block assembly.
- n Fanning strips interlocking sectional fanning strips allow entire circuit groups to be connected and disconnected as a single unit.
- ${\tt n}$ Factory assembled blocks available, including marking strips and different contact sections.

NEMA 900 Series is available in .375" [9.53] centerline, in direct or channel mount, tubular or strap versions, and screw, clamp or quick connect configurations. Corrosionresistant versions are also available.

NEMA 900 Series snap fit with the Medium Duty 500, 600 and 700 Series, as well as with the Heavy Duty, Intermediate Heavy Duty and Fuse & Switch blocks.



Catalog 1308389 Revised 6-07

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South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 8706-080-208

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Characteristics Strap Screw Tubular Screw Tubular Clamp Quick Connect Part Part Part Part Type of Block Model Model Model Model Number Number Number Number Direct Mount (Flat Base) 1546143-1 1546149-1 Standard 921 924 1546147-1 925 1546234-1 927 Corrosion Resistant (Duramax) D921 1546143-2 D924 1546147-2 D925 1546234-2 Channel Mount (Dovetail Base) Standard 0921 1546144-1 0924 1546148-1 0925 1546235-1 0927 1546150-1 (Duramax) D0921 1546144-2 D0924 1546148-2 D0925 1546235-2 Contact Type 20 ഹ

900 Series, 600V Medium Duty, 0.375" [9.53] Pitch

Specifications				
Wire Range (AWG) Solid & Stranded	10*, 22-14	22-8	22-8	_
Wire Strip Length (in.)	_	11/32	11/32	
Screw Type	6-32 Binding Head	10-32 Pan Head	10-32 Slotted Pan Head	_
Ampacity	35 A*, 15A	50 A	30 A	20 A
End Sections				
Direct Mount	930 1546163-1	930 1546163-1	930 1546163-1	930 1546163-1
Channel Mount	0930 1546164-1	0930 1546164-1	0930 1546164-1	0930 1546164-1

*Acceptable for 35A max. factory wiring only when used with 10AWG wire preterminated with suitable ring tongue terminals.

Note: Standard package is 100 pieces for contact, 25 pieces for end section.

Comparison (Type of Block)



Direct Mount (Flat Base)



Channel Mount (Dovetail Base)



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South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 8706-080-208

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Catalog 1308389

Revised 6-07

₹ Tyco Electronics

900 Series, 600V Medium Duty, 0.375" [9.53] Pitch (Continued)

Independent Testing Service Listing and Recognition

WIRE SIZES, Solid or Stranded Tubular Screw 1 #18 AWG to 1 #8 AWG, 2 or 3 #12 AWG, 2 to 4 #14 AWG, 2 or 4 #16 AWG, 2 to 5 #18 AWG, Tubular Clamp 1 #22 AWG to 1 #10 AWG, 2 #12 AWG, 2 or 3 #14 AWG, 2 to 4 #16 AWG, 2 to 5 #18 AWG, 2 to 8 #20 AWG, 2 to 10 #22 AWG, Strap Clamp 1 #22 AWG to 1 #10 AWG



& Quick Connect



Tubular Clamp with Blade



Tubular Clamp with Cantilever

Model Part Number	Part Model Number	Model Part Number
929 1546151-1	_	
_		
0929 1546152-1	BP035M 3-1437394-6	BP35F 3-1437394-7
_		
Conford And and a second s		
18-12	22-10	22-10
_	11/32	11/32
_	10-32 Phil-slot	10-32 Phil-slot
20 A	30 A	30 A
930 1546163-1		

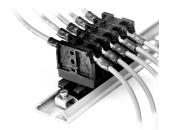
0930 1546164-1 0930 1546164-1 —	930 1546163-1		_
	0930 1546164-1	0930 1546164-1	_

Catalog 1308389 Revised 6-07 Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803



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ERT Series, Medium Duty Radiation Resistant

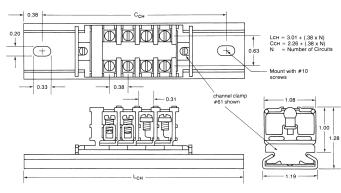


Physical Properties Effect of Radiation on Physical Properties

The effects of radiation (neutron and gamma particles) on RYTON R-4 material have been studied. Since RYTON, as an engineering plastic, may fill applications in nuclear installations these effects are important. The test results show no effects on physical properties by these relatively high exposures to gamma and neutron radiation. There is no indication from these data of crosslinking or degradation of the RYTON R-4 material.

Note: Determination of the suitability of the ERT Series Blocks for particular applications rests solely with customers.





Description	Catalog Number	Part Number
Strap Screw	0721ERT	1437394-9
Tubular Clamp	0725ERT	1-1437394-6
Tubular Screw	0724ERT	1-1437394-1
End Section	0730ERT	2-1437394-0

ne Sulfide)	ASTM Test
100 lbs./ft.3	D1505-68
19,500 psi	D638-72
1.3%	D638-72
1,700,000 psi	D790-91
29,000 psi	D790-91
21,000 psi	D695-69
8.0 ft. lbs./in.	
1.4 ft. lbs./in.	
R-123	D785-65
0.05%	D570-63
500°F	D648-72
0.25 btu/lb./°F	
2.0 btu-in./h-ft.2 F	
2.5 x 10-5 in./in./° F	
V-0	
350 volts/mil	D149-64
3.9	D150-70
3.8	
0.0010	D150-70
0.0013	
In Reactor Core	In Water Pool
35°C	30°C
Mainly neutrons	Mainly gamma
1010 ergs g-1 (C)	109 ergs g-1 (C)
Calorimeter and activation detectors	Ionization chambe
Flexural Strength psi	Modulus of Elasticity, psi
28,700	1,900,000
29,000	1,910,000
28,900	1,880,000
29,700	1,810,000
30,200	1,840,000
	100 lbs./ft.3 19,500 psi 1.3% 1,700,000 psi 29,000 psi 21,000 psi 8.0 ft. lbs./in. 1.4 ft. lbs./in. R-123 0.05% 500°F 0.25 btu/lb./°F 2.0 btu-in./h-ft.2 F 2.5 x 10-5 in./in./° F V-0 350 volts/mil 3.9 3.8 0.0010 0.0013 In Reactor Core 35°C Mainly neutrons 1010 ergs g-1 (C) Calorimeter and activation detectors Flexural Strength psi 28,700 29,000 28,900 29,700

RYTON is a registered trademark of Chevron Phillips Chemical Company.



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Medium Duty Accessories

Mounting Channel







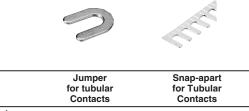
Mini	iature	Ste Char		Brea Awa Ste	ay	Pre-puncl Aluminu Channe	m
Part Number	Catalog Number	Part Number	Catalog Number	Part Number	Catalog Number	Part Number	Catalog Number
1437381-8	12	9-1437381-1 9-1437381-8	60 63-BU	9-1437381-2	60-B-36	9-1437381-9 1437382-2	64 67
Standard Length							
3	feet	6 fe 3 fe		3 fe	et	6 feet 3 feet	

Channel Clamps



Screw Channel Clamps	Universal Clamps	Snap-In Clamps	Miniature for #12 Channel	See-thru Cover	Ganging Rod	Polarizing Plug
Part Number						
9-1437381-5	1437382-3	9-1437381-7	1437381-4	1-1437382-2	3-1437381-9	2-1437382-5
Catalog Numb	er					
61	68	62	11	71	30-BU	84
Standard Leng	yth					
_	—	_	—	—	2 feet	_

Jumpers



Part Number			
	1437382-6	1-1437382-3	
Catalog Number			
	70	73	

Related Product Data

Wire Pins and Ferrules—Pages 109-111

For more information on AMP Standard Terminals and Splices or Quick-Connect FASTON Receptacles and Tabs, request Catalog 82042.

Dimensions are in millimeters and inches unless otherwise specified.

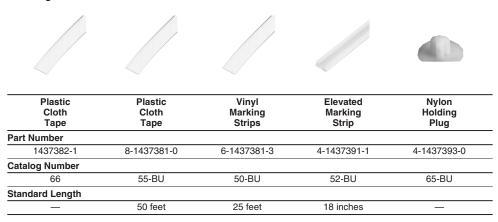
Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 8706-080-208

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Medium Duty Accessories (Continued)

Marking Accessories



Sectional Fanning Strips



Strap Screw



Tubular Screw

Description	Standard Package	Part No.	Catalog No.
Tubular Screw	50	1-1437382-4	74
Strap Screw	50	1-1437382-7	78-TB
Molding Only, no contact	50	4-1437393-1	74100

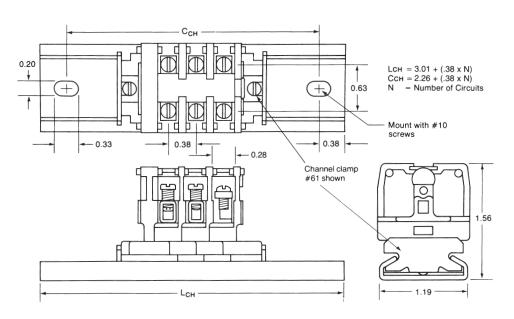
Dimensions are in millimeters and inches unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

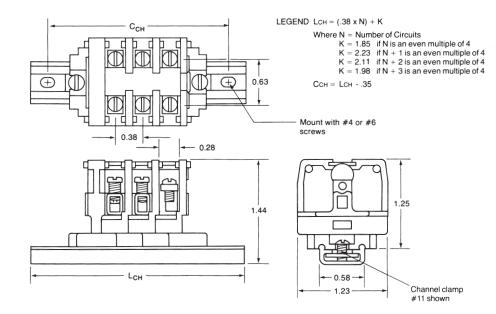


Medium Duty Channel Mount

Dovetail Base Mounted On Standard #60 Channel



Flat Base Mounted On Miniature #12 Channel



Catalog 1308389 Revised 6-07

Dimensions are in millimeters and inches unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change.

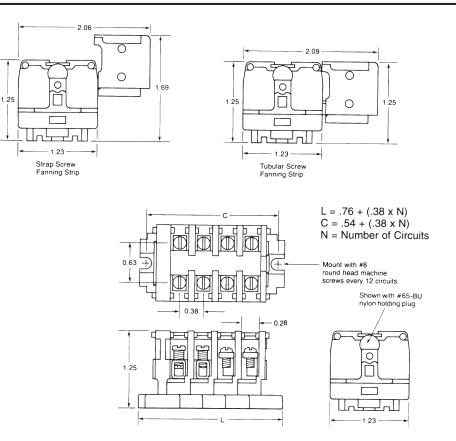
USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 8706-080-208

255

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900 Series, Flat Base

BUCHANAN Terminal Blocks



256

Catalog 1308389 Revised 6-07 Dimensions are in millimeters and inches unless otherwise specified.

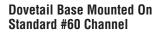
limeters Dimensions are shown for erwise reference purposes only. Specifications subject to change.

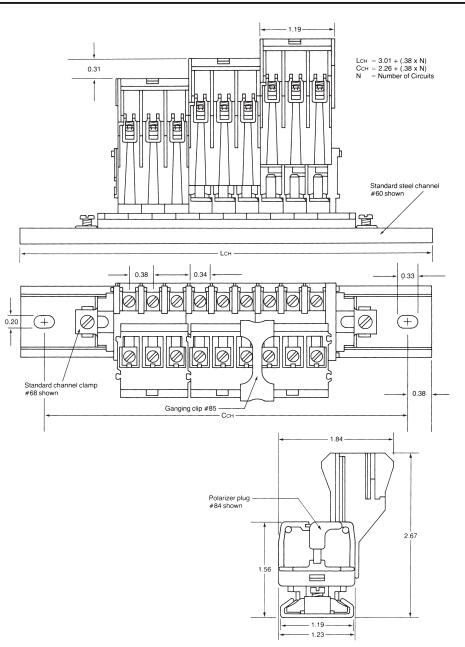
or USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803



Note: All part numbers are RoHS Compliant.

BP Series, Plug-in Blocks





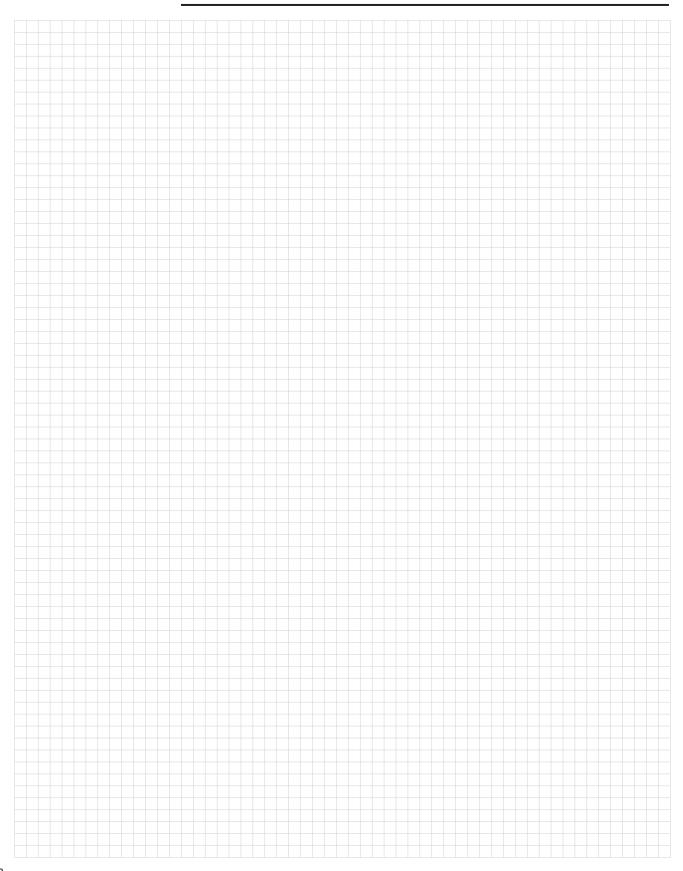
NEMA Terminal Blocks

Catalog 1308389 Revised 6-07

Dimensions are in millimeters and inches unless otherwise specified. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 8706-080-208 257



Engineering Notes



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Catalog 1308389 Revised 6-07 www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

200 Series Heavy Duty

Product Facts

₹_{Тусо}

n Choose from 5 different contact styles.

Electronics

- n 600 volt UL and NEMA rating.
- ${\rm n}$ Conservatively rated from 50 to 90 amperes per circuit, depending on which contact style is selected.
- n Choose any of three mounting methods — twoway flat base models surface mount directly to the panel or snap-on miniature channel. Dovetail base models mount on standard channel.
- n Packaged for rapid handling and assembly — snap-fit sections are packed 10 per carton.
- n Only one end section needed per block assembly.
- n Readily identify circuits mark directly on block sections or use removable marking strip. Pre-printed strips are also available.

This compact, heavy duty block line accepts single or combination wires up to #4 AWG, solid or stranded. The compact design allows at least 138 circuits per 6foot length to be mounted. The pitch of this 600 volt block is 0.50" [12.70] (centerline spacing).





Catalog 1308389 Revised 6-07

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Dimensions are in millimeters and inches unless otherwise specified. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

al a

TIP

Characteristics	Strap Screw	Strap Clamp	Tubular Screw	Tubular Clamp
Type of Block	Model Part Number	Model Part Number	Model Part Number	Model Part Number
Direct Mount (Flat Base) Nylon, Unpainted	241 3-1437390-9	248 4-1437390-2	242 4-1437390-0	243 4-1437390-1
Polypropylene	P241 6-1437390-5	P248 6-1437390-8	P242 6-1437390-6	P243 6-1437390-7
Channel Mount (Dovetail Base) Nylon, Painted	0241 1-1437390-6	0248 2-1437390-4	0242 2-1437390-0	0243 2-1437390-1
Polypropylene	P0241 5-1437390-9	P0248 6-1437390-3	P0242 6-1437390-0	P0243-BU 6-1437390-2
Contact Type				
Specifications Wire Range (AWG)				
Solid & Stranded	22-10	18-8	18-4	18-6
Wire Strip Length (in.)	—	1/2	1/2	1/2
Screw Type	10-32 binding head	8-32 pan head	1/4-28 set screw	1/4-28 set screw
Ampacity	35 A	50 A	85 A	65 A
End Sections				
Direct Mount, Nylon	250 4-1437390-3	250 4-1437390-3	250 4-1437390-3	250 4-1437390-3
Direct Mount, Polypropylene	P250 6-1437390-6	P250 6-1437390-6	P250 6-1437390-6	P250 6-1437390-6
Channel Mount, Nylon	0250 2-1437390-5	0250 2-1437390-5	0250 2-1437390-5	0250 2-1437390-5
Channel Mount, Polypropylene	P0250 6-1437390-4	P0250 6-1437390-4	P0250 6-1437390-4	P0250 6-1437390-4

200 Series, Heavy Duty, 600V, 0.50" [1.27] Pitch

Notes:

For factory assembled blocks, suffix Catalog Number with number of blocks desired. See page 264-266 for dimensions and other details.

(Maximum number of flat base preassembled sections is 12).

Example: Ten tubular clamp, dovetail based sections, preassembled on channel = 024310

Example: Twelve polypropylene strap clamp flat base sections = P24812

For unpainted factory assembled blocks supplied with a removable marking strip add - 1 to Catalog Number.

For blocks with two or more different contact sections, imprinted marking strips, or special features, consult Technical Support.

Comparison (Type of Block)



Direct Mount

(Flat Base)



Channel Mount (Dovetail Base)



Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 8706-080-208

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Catalog 1308389

Revised 6-07

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Dimensions are in millimeters and inches unless otherwise specified.

200 Series, Heavy Duty, 600V, 0.50" [1.27] Pitch (Continued)





Corrosion Resistant Strap Screw

Corrosion Resistant
Tubular Screw

Model Part Number	Model Part Number
D241 4-1437389-0	D242 4-1437389-1
DP241 1776721-1	DP242 1776723-1
D0241 1776722-1	D0242 1776724-1
DP0241 6-1437389-0	DP0242 1776724-2
22-10	18-4
	1/2
10-32 Nickel plated	1/4-28 Nickel plated

10-32 Nickel plated binding head	1/4-28 Nickel plated set screw
35 A	85 A

250	4-1437390-3	250	4-1437390-3
P250	6-1437390-6	P250	6-1437390-6
0250	2-1437390-5	0250	2-1437390-5
P0250	6-1437390-4	P0250	6-1437390-4



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Catalog 1308389 Revised 6-07

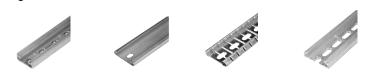
sp www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

200 Series Heavy Duty Accessories

Mounting Channel



Minia	iture	Steel Channel		Awa	Break Away Steel		nched num inel
Part Number	Catalog Number	Part Number	Catalog Number	Part Number	Catalog Number	Part Number	Catalog Number
1437381-8	12	9-1437381-1 9-1437381-8	60 63-BU	9-1437381-2	60-B-36	9-1437381-9 1437382-2	64 67
Standard Length	I						
3 fe	eet	6 fe 3 fe		3 fe	et	6 fe 3 fe	

Channel Clamps



Screw Channel Clamps	Universal Clamps	Snap-In Clamps	Miniature for #12 Channel	See-thru Cover	Ganging Rod
Part Number					
9-1437381-5	1437382-3	9-1437381-7	1437381-4	1-1437381-6	3-1437381-9
Catalog Numb	er				
61	68	62	11	23-BU	30-BU
Standard Leng	jth				
_	_	—	—	_	2 feet

Marking Accessories

Jumpers



Plastic Cloth Tape	Plastic Cloth Tape	Vinyl Marking Strips	Elevated Marking Strip	Nylon Holding Plug	Jumper for Tubular Contacts	Snap-Apart for Tubular Contacts
Part Number						
8-1437381-1	8-1437381-0	6-1437381-3	4-1437391-1	4-1437393-0	2-1437393-4	1-1437382-5
Catalog Numb	er					
56	55-BU	50-BU	52-BU	65-BU	42-BU	75
Standard Leng	th					
_	50 feet	25 feet	18 inches	_	_	12 ckt

Related Product Data

Wire Pins and Ferrules—Pages 109-111 For more information on AMP Standard Terminals and Splices or Quick-Connect FASTON Receptacles and Tabs, request Catalog 82042.



South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 8706-080-208

Catalog 1308389 Dimensions are in millimeters and inches unless otherwise specified.

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Revised 6-07

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Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

200 Series Heavy Duty Specifications

Material & Finish

Voltage Rating: Blocks meet 600 volt creepage and clearance requirements of NEMA, UL and CSA for general industrial control equipment and panelboards. Withstand voltages greatly in excess of IEEE switchgear standards for 750 volts.

Ampacity: For a single #4 AWG wire the maximum amperage recommended is 85 amps.

Standard Contacts:

Material: Electrical grade copper or copper alloy conductor. Steel Screws plated to resist corrosion in most industrial applications

AL-CU Tubular Screw: Aluminum compatibility with aluminum or copper conductors. AL-CU is tin-plated brass.

Environmental Contacts (for highly corrosive atmospheres)

Tubular Screw: Electrical grade copper tube with nickel plating. Nickel plated brass screws.

Strap Screw: Nickel plated brass straps and screws. Nickel plating exceeds specification QQ-N-290 Class I, Type VII.

Nylon Housing:

Material—Nylon; Unfilled Type 6/6 Max. Continuous Temperature— 125°C [257°F]

Breakdown Voltage (AC, 60 Hz) Contact-to-Contact: 7000V

Contact-to-Ground: 7800V Dielectric Strength (RH 40% at Sea Level)—470-385 Volts/mil

thickness Per ASTM D149 UL High Voltage Arc Tracking

(inches/min.)—.01-.35 Water Absorption (24 hrs. % wt.

gain)—1.5%

Flammability—UL94V-2

Chemical Resistance—Resistant to aromatic hydrocarbons, strong alkalies Per ASTM D543

Radiation Resistance (ergs g-1 (C)—8 x 107 Color—Translucent White

Independent Testing Service Listing and Recognition

WIRE SIZES, Solid or Stranded Tubular Screw 1 #4 AWG, 1 #6 AWG, 1 or 2 #8 AWG, 1 to 4 #10 AWG, 1 or 5 #12 AWG, 1 to 4 #14 AWG, 1 or 6 #16 AWG, 1 to 8 #18 AWG, Tubular Clamp 1 #6 AWG, 1 or 2 #8 AWG, 1 to 3 #10 AWG, 1 to 4 #12 AWG, 1 or 4 #14 AWG, 1 to 6 #16 AWG, 1 or 8 #18 AWG Strap Clamp 1 #18 to 1 #8 AWG

Polypropylene Housing:

Material—Polypropylene; Filled selfextinguishing

Max. Continuous Temperature— 105°C (221°F)

Breakdown Voltage (AC, 60Hz) Contact-to-Ground: 7800V Contact-to-Contact: 7000V

Dielectric Strength (RH 40% at Sea Level)—500 Volts/mil thickness Per ASTM D149

UL High Voltage Arc Tracking (inches/min.)—Did not Track

Water Absorption (24 hrs. % wt. gain)—0.02% Per ASTM D570

Flammability—UL94V-0

Chemical Resistance—Resistant to most acids, alkalines, and saline solutions. Also resistant to higher aliphatic solvents and polar substances per ASTM D543

Radiation Resistance (ergs g-1 (C)—No data Available

Color—Opaque White



Catalog 1308389 Revised 6-07

www.tycoelectronics.com

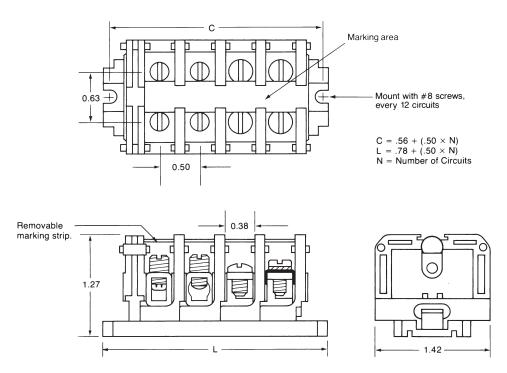
Dimensions are in millimeters and inches unless otherwise specified. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803



Note: All part numbers are RoHS Compliant.

200 Series, 600 Volt, Direct Mount

Flat Base



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Catalog 1308389 Dimensic Revised 6-07 and inche specified

Dimensions are in millimeters and inches unless otherwise specified.

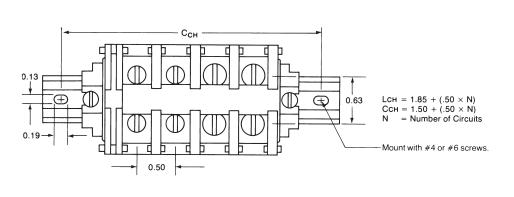
Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

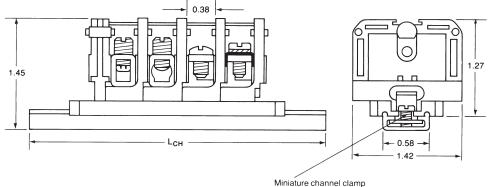


Note: All part numbers are RoHS Compliant.

200 Series, 600 Volt, Channel Mount

Flat Base Mounted On #12 **Miniature Channel**





#11 shown

Catalog 1308389 Revised 6-07

Dimensions are in millimeters and inches unless otherwise specified. to change.

Dimensions are shown for reference purposes only. Specifications subject

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 8706-080-208

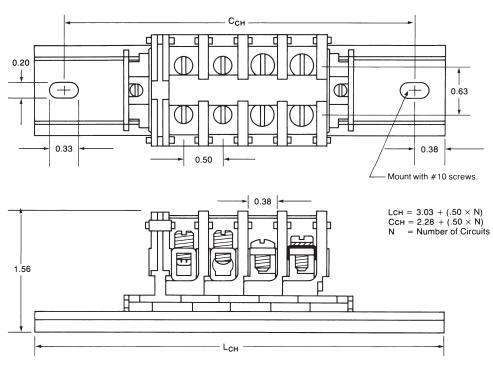
265

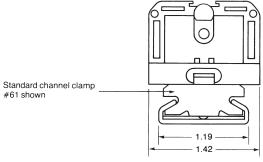


Note: All part numbers are RoHS Compliant.

200 Series, 600 Volt, Channel Mount (Standard)

Dovetail Base Mounted On Standard #60 Channel





Revised 6-07

Catalog 1308389 www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change.

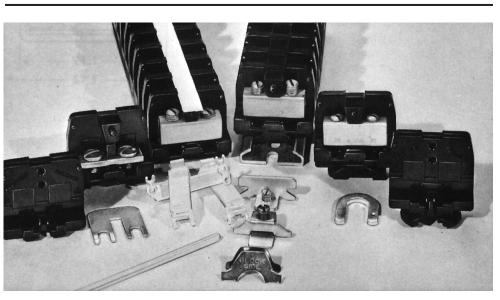
USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

₹ Tyco Electronics

200 Series, Heavy Duty Phenolic Blocks

Product Facts

- n Sturdy Heavy Duty block accepts single or combinations of wire up to #4 AWG solid or stranded at least 122 circuits per 6foot length, 9/16" center-tocenter spacing.
- ${\tt n}$ Choose from four different contact styles conservatively rated up to 90 amperes.
- ${\rm n}$ 600 volt UL and NEMA rating.
- ${\tt n}$ Surface mounted flat base and channel mounted dovetail base models available.
- **n** Only one end section needed per block assembly.
- n Interlocking sectional fanning strips allow entire circuit groups to be connected and disconnected as a single unit.
- n Readily identify circuits available with painted marking surface or use removable marking strip. Pre-printed strips are also available.
- **n** Factory assembled blocks available.
- n Heavy Duty Phenolic Block Sections Snap-fit with 300 & 600 volt, medium duty phenolic, heavy duty nylon and polypropylene, and Fuse and Switch blocks.



This family of phenolic heavy duty blocks is ideal for high temperature, high current applications. The rugged material withstands temperatures up to 302°F [150°C].



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Catalog 1308389 Revised 6-07

www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

200 Series, Heavy Duty Phenolic, 600 V, 0.56" [14.24] Pitch



Characteristics	Strap Screw	Strap Clamp	Tubular Screw	Tubular Clamp
Type of Block	Model Part Number	Model Part Number	Model Part Number	Model Part Number
Direct Mount (Flat Base) Painted	221 3-1437390-1	228-BU 1-1437381-5	222-BU 3-1437390-3	223-BU 3-1437390-6
Unpainted	211 2-1437390-7	218 3-1437390-0	212 2-1437390-8	213 2-1437390-9
Channel Mount (Dovetail Base) Painted	0221 1437390-8	0228 1-1437390-3	0222 1437390-9	0223 1-1437390-2
Unpainted	0211 1437390-1	0218 1437390-7	0212 1437390-3	0213 1437390-5
Contact Type				
Specifications				
Wire Range (AWG) Solid & Stranded	22-10	18-8	18-4	18-6
Wire Strip Length (in.)	_	1/2	1/2	1/2
Screw Type	10-32 binding head	8-32 pan head w/clamp	1/4-28 set screw	1/4-28 set screw
Ampacity	35 A	50 A	85 A	65 A
End Sections				
Direct Mount	230-BU 1-1437381-7	230-BU 1-1437381-7	230-BU 1-1437381-7	230-BU 1-1437381-7
Channel Mount	0230 1-1437390-4	0230 1-1437390-4	0230 1-1437390-4	0230 1-1437390-4

Notes:

For factory assembled blocks, suffix Catalog Number with number of blocks desired. See page 272 for dimensions and other details. (Maximum number of flat base preassembled sections is 12).

Example: Twenty dovetail based, tubular clamp blocks, preassembled on channel = 021320 (plain marking area)

Example: Twelve preassembled flat base, strap screw blocks = 22112 (painted marking area)

For factory assembled blocks supplied with a removable marking strip add -1 to Catalog Number.

For blocks with two or more different contact sections, imprinted marking strips, or special features, consult Technical Support.

Environmental contacts for highly corrosive atmospheres are available with nickel plating on non-ferrous hardware. To order, prefix Catalog # with "D".

Comparison (Type of Block)





Direct Mount (Flat Base)

Channel Mount (Dovetail Base)



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Catalog 1308389 Revised 6-07

specified. www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise specified. Dimensions a reference put Specification to change.

Dimensions are shown for reference purposes only. Specifications subject to change. USA: Canar Mexic C. An

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

200 Series, Heavy Duty Phenolic, 600 V, 0.56" [14.24] Pitch (Continued)

Corrosion Resistant Strap Screw	Corrosion Resistant Tubular Screw	Corrosion Resistant Tubular Clamp
Model Part Number	Model Part Number	Model Part Number
D221 3-1437389-6	D222 3-1437389-8	D223 3-1437389-9
D211 3-1437389-4	D212 3-1437389-5	D213 4-1437390-6
D0221 1437389-7	D0222 1437389-8	D0223 1437389-9
D0211 1437389-2	D0212 1437389-4	D0213 1437389-6
Contact Type		
Specifications		
22-10	18-4	22-10
	1/2	1/2
10-32 Nickel plated	1/4-28 Nickel plated	1/4-28 Nickel plated
binding head	set screw	set screw
35 A	85 A	65 A
230-BU 1-1437381-7	230-BU 1-1437381-7	230-BU 1-1437381-7
0230 1-1437390-4	0230 1-1437390-4	0230 1-1437390-4

Sectional Fanning Strips

Description	Part No.	Catalog No.
Tubular Screw	1-1437381-8	24
Strap Screw	1-1437381-9	27
Molding Only, no contact	1447889-1	2400

Note:

For factory assembled fanning strips, suffix Catalog Number with number desired.

Example: Ten factory assembled sections of #24 = 2410



Catalog 1308389 Revised 6-07

spec spectronics.com

Dimensions are in millimeters and inches unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 8706-080-208

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Mounting Channel

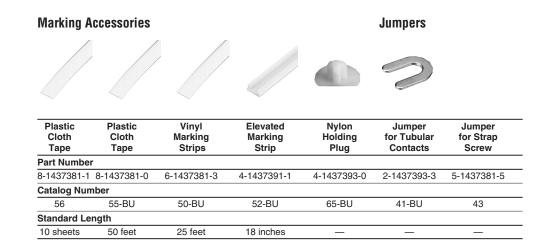
BUCHANAN Terminal Blocks

Note: All part numbers are RoHS Compliant.

Steel Channel	Break Away Steel	Pre-punched Aluminum Channel	Screw Channel Clamps	Universal Clamps	Snap-In Clamps	See-thru Cover	Ganging Rod
Part Number							
9-1437381-1 9-1437381-8	9-1437381-2	9-1437381-9 1437382-2	9-1437381-5	1437382-3	9-1437381-7	1-1437382-2	3-1437381-9
Catalog Number							
60 63-BU	60-B-36	64 67	61	68	62	23-BU	30-BU
Standard Length							
6 feet 3 feet	3 feet	6 feet 3 feet	_	_	_	_	2 feet

200 Series, Heavy Duty Phenolic Accessories

Channel Clamps



Related Product Data

Wire Pins and Ferrules—Pages 109-111 For more information on AMP Standard Terminals and Splices or Quick-Connect FASTON Receptacles and Tabs, request Catalog 82042.

to change.

Dimensions are shown for

reference purposes only. Specifications subject

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 8706-080-208

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Catalog 1308389 Dimensions are in millimeters and inches unless otherwise specified. Revised 6-07

www.tycoelectronics.com

200 Series, Heavy Duty Phenolic Specifications

Material & Finish

Standard Contacts

Material: Electrical grade copper or copper alloy conductor. Steel Screws plated to resist corrosion in most industrial applications.

Environmental Contacts (for highly corrosive atmospheres)

Tubular Screw: - Electrical grade copper tube with nickel plating. Nickel plated brass screws.

Strap Screw: - Nickel plated brass straps and screws

Nickel plating exceeds specification QQ-N-290 Class I, Type VII.

Wire Range: Strap Screw: #22-10 AWG max., solid or stranded with crimp terminals

Strap Clamp: #18-8 AWG, solid or stranded

Tubular Screw: #18-4 AWG, solid or stranded

Tubular Clamp: #18-6 AWG, solid or stranded

Wire Strip Length: Strap Screw: As needed for lugging

Strap Clamp: 1/2 in. [12.7] Tubular Screw: 1/2 in. [12.7]

Tubular Clamp: 1/2 in. [12.7] Screw Type: Strap Screw: 10-32

slotted binding head

Strap Clamp: 8-32 pan head w/ clamp Tubular Screw: 1/4-28 slotted headless

Tubular Clamp: 1/4-28 slotted headless

Strap Screw: Maximum width of lugs: 11/32 in. [8.73]

Independent Testing Service Listing and Recognition

WIRE SIZES, Solid or Stranded Tublar Screw Tubular Screw 1 #4 AWG, 1 #6 AWG, 1 or 2 #8 AWG, 1 to 4 #10 AWG, 1 or 5 #12 AWG, 1 to 6 #14 AWG, 1 or 6 #16 AWG, 1 to 8 #18 AWG, Tubular Clamp 1 #6 AWG, 1 or 2 #8 AWG, 1 to 3 #10 AWG, 1 to 4 #12 AWG, 1 or 4 #14 AWG, 1 to 6 #16 AWG, 1 or 8 #18 AWG Strap Clamp 1 #18 to 1 #8 AWG

Nylon Housing

Material—Phenolic, Filled Flame Retardant

Max. Continuous Temperature— 150°C, [302°F]

Breakdown Voltage— Contact-to-Contact: 7800V Contact-to-Ground: 9400V

Dielectric Strength (RH 40% at Sea Level)—300 Volts/mil thickness per ASTM #D149 UL High Voltage Arc Tracking

(Inches/min.)—.49-.58 [12.45-14.73]

Water Absorption (24 hrs. % wt. gain)—0.45% per ASTM D570

Flammability—UL94V-1 Chemical Resistance—Resistant to acids, alkalies, and aliphatic hydrocarbons and ketones, per

ASTM D543. Radiation Resistance (ergs g-1 (C)—2.7 x 108 min.

Color—Black



271

Catalog 1308389 Revised 6-07

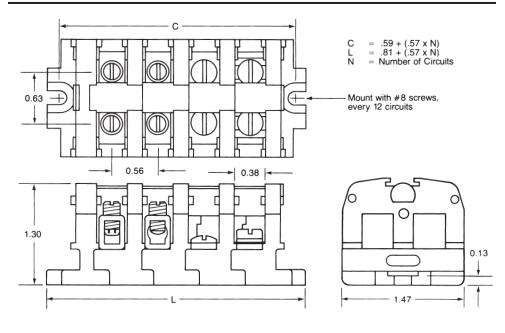
www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise specified. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

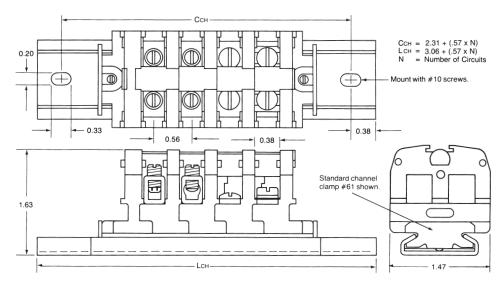
Note: All part numbers are RoHS Compliant.

200 Series, Heavy Duty Phenolic

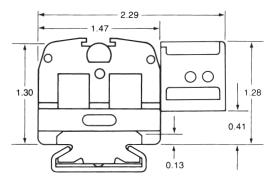








Sectional Fanning Strips





Catalog 1308389 Dim Revised 6-07 and

www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise specified. Dimen Specified. Specifi to cha

Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

800 Series, Intermediate Heavy Duty

Product Facts

€Тусо

n An exceptionally compact block that accepts single or combinations of AWG wire sizes as large as #1/0 — at least 92 circuits per 6-foot length, 3/4 inch center-tocenter spacing.

Electronics

- n Tubular screw contact style accepts AWG wire sizes from #12 thru #1/0, solid or stranded.
- ${\rm n}$ Same block mounts on surface or channel - twoway mounting base fits standard channel or mounts directly to flat surfaces.
- n Packaged for rapid handling and assembly - snap-fit sections packaged 10 per carton.
- n Contacts conservatively rated at 155 amperes per circuit when used with copper wire.
- ${\tt n}$ Only one end section needed per block assembly.
- n Readily identify circuits blocks available with painted marking surface or use removable vinyl marking strip. Preprinted marking strips are also available.
- n Factory assembled blocks available.
- n Nylon housing material for the most rugged applications.
- n Allen head screw for aluminum wire — screw tip design helps protect aluminum wire from overtightening. Slotted screw head for copper wire.
- n Intermediate Heavy Duty blocks snap-fit with 300 & 600V, Medium Duty phenolic, Heavy Duty nylon, polypropylene and phenolic and Fuse and Switch blocks.



This line of 600 volt blocks is rated up to 150 A and is available in a standard version and a corrosion resistant version.



Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

800 Series, Intermediate Heavy Duty, 600 V, 0.75" Pitch



Material & Finish

Housing Material—Polyamide type 6/6, unfilled

Max Continuous Temp.—125°C [257°F]

Water Absorption (24hrs. % wt. gain)-1.5%

Flammability-UL94V-2

Chemical Resistance—Resistant to aromatic hydrocarbons, strong alkalies Radiation Resistance (ergs g-1 (C)-8 x 107

Color-Translucent white

Electrical Properties

Voltage Rating—Blocks meet 600V clearance and creepage requirements of NEMA, UL, and CSA standards for general industrial control equipment and panelboards. Withstand voltages in excess of IEEE switchgear standards for 750V

Breakdown Voltage, AC, 60Hz-

Contact-to-Contact: 8,800V Contact-to-Ground: 9000V

Dielectric Strength — RH 40% @ Sea Level—470-385 Volts/mil thickness per ASTM D149

Operating Voltage—Blocks meet 600V creepage and clearance requirements; withstand voltage greatly exceeds standards for 750V

UL High Voltage Arc Tracking (in./min.)-01-.35 [.25-8.89]

Contacts

Standard Contacts

Material—Electrical grade copper conductor

Screws-Steel, zinc plated to resist corrosion in most applications

Duramax Contacts (for highly corrosive atmospheres)

Tubular Screw—Electrical grade copper tube with nickel plating; nickel plated brass screws. Nickel plating exceeds specification QQ-N-290 Class 1, Type VII.

Wire Range-#12-1/0 AWG, solid or stranded

Wire Strip Length—11/16" [17.46] Screw Type—7/16" [11.11] - 20 slotted headless screw

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Catalog 1308389 Revised 6-07

www.tycoelectronics.com

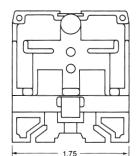
Dimensions are in millimeters and inches unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013

UK: 8706-080-208



Same part used for both panel and channel mounting.

Description	Part No.	Catalog No.	
Tubular Screw, Unpainted	1437395-2	814	
Tubular Screw, Painted	1437395-3	824-BU	
Corrosion Resistant, Unpainted	5-1437389-8	D814-BU	
Corrosion Resistant, Painted	5-1437389-9	D824	
End Section	1-1437395-4	830-BU	

Notes:

For factory assembled blocks on channel, prefix Catalog # with "0" and suffix with number of blocks desired. Without channel (maximum of 6 sections) delete "0". See page 275 for dimensions and other details. Example: Ten tubular screw sections preassembled on channel = 082410

For unpainted factory assembled blocks supplied with a removable marking strip add -1 to Catalog Number.

For blocks with two or more different contact sections, imprinted marking strips or special features; consult Technical Support.

Independent Testing Service Listing and Recognition

UL Wire Sizes-Solid or Stranded. Tubular Screw 1 — #1/0 AWG, 1 — #1 AWG

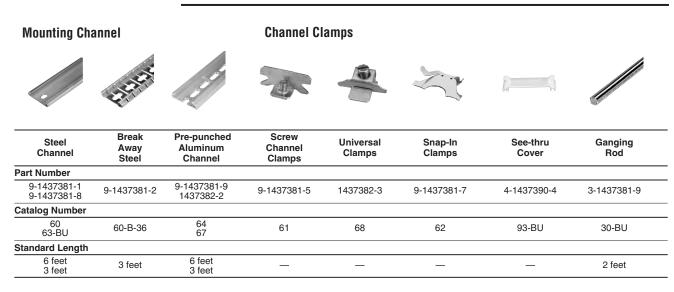
1 — #2 AWG, 1 or 2 — #4 AWG 1. 2 or 3 — #6 AWG. 1, 2, 3 or 5 — #8 AWG 1 to 6 — #10 AWG, 1 to 7 — #12 AWG



Marking Accessories

Note: All part numbers are RoHS Compliant.

800 Series, Intermediate Heavy Duty Accessories



Plastic Plastic Elevated Vinyl Marking Marking Holding Cloth Cloth Snap-apart Strips Strip Screw Таре Jumper Tape Part Number 1437382-1 6-1437381-3 4-1437391-1 7-1437381-8 1-1437382-6 8-1437381-0 **Catalog Number** 50-BU 66 55-BU 52 53-BU 76

Jumpers

Standard Length 50 feet 25 feet 12 ckt 18 inches

RELATED PRODUCT DATA

WIRE PINS AND FERRULES: Pages 109-111 For more information on AMP Standard Terminals and Splices or Quick-Connect FASTON Receptacles and Tabs, request Catalog 82042.

Catalog 1308389 Revised 6-07

Dimensions are in millimeters and inches unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 8706-080-208

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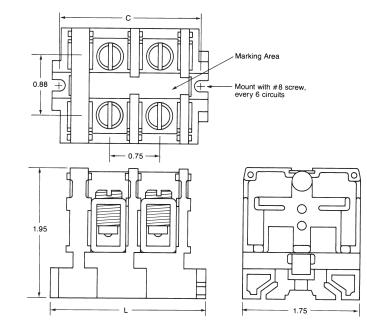


BUCHANAN Terminal Blocks

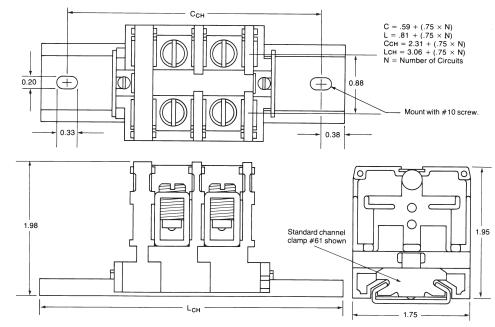
Note: All part numbers are RoHS Compliant.

800 Series, Intermediate Heavy Duty

Flat Base



Dovetail Base Mounted On Standard #60 Channel





South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 8706-080-208

www.tycoelectronics.com

Catalog 1308389

Revised 6-07

Dimensions are in millimeters and inches unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change.

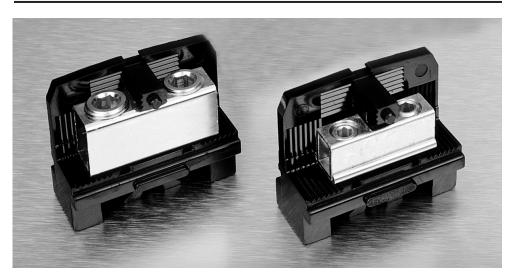
USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

400 Series, Ultra Heavy Duty

Product Facts

400 Series

- n Compact 2/0 or 250 kcmil (MCM) block - at least 57 circuits per 6- foot length, 1-3/16" [30.16] center-tocenter spacing.
- n High current capacity snapfit sectional block — tubular contacts accept single or combinations of wire sizes as large as 250 kcmil (MCM).
- n Two contact styles available; rated up to 270 amperes for copper wire.
- n Allen head screws allow maximum torque when using large wire sizes.
- ⁿ Withstand voltages in excess of IEEE switchgear standards for 750 volts. Meet clearance and creepage spacing specified in UL, CSA, and NEMA Industrial Control Standards for 600 volts.
- n Same block directly mounts on surface or channel mounts.
- n Only one end section needed per block assembly.
- n Readily identify circuits order blocks with painted marking area or use removable vinyl marking strip. Preprinted marking strips are also available.
- n Factory assembled blocks available.
- n Ultra Heavy Duty phenolic block sections do not snap-fit with other block styles.



This Ultra Heavy Duty line includes the 400 Series rated up to 270 A.



Catalog 1308389 Revised 6-07

www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise specified. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

BUCHANAN Terminal Blocks

0.20

0.33

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Note: All part numbers are RoHS Compliant.

FLAT BASE MOUNTED ON STANDARD

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400 Series, Ultra Heavy Duty, 600 V, 1.19" [30.23] Pitch

 \mathbf{D}



Material & Finish

Housing Material—Phenolic, filled flame retardant Flammability—UL94V-1 Color—Black

Contacts:

Material—Electrical grade copper conductor; plated steel screws resist corrosion

Tubular Screw Type Small: 1/2" [12.7] - 13 Hex Large: 3/4" [19.05] - 16 Hex soci

Large: 3/4" [19.05] - 16 Hex socket set screw

Mechanical Properties

Pitch (terminal spacing)— 1.19" [30.23]; 9 circuits/foot

Wire Strip Length— Tubular Screw (small): 1" [25.4] Tubular Screw (large): 1" [25.4]

Electrical Properties

Maximum Current—255A for a single 250MCM wire

Operating Voltage—Blocks meet 600V creepage and clearance requirements; withstand voltage greatly exceeds standards for 750V

Wire Range—Tubular Screw (small): #4-#2/0 AWG solid or stranded; Tubular Screw (large): #6 AWG-250 kcmil (MCM) solid or stranded

Dielectric Strength (RH 40% @ sea level)—300 V/mil thickness per

ASTM D149 Breakdown Voltage, AC, 60Hz— Contact-to-Contact: 10,000V Contact-to-Ground: 10,000V

UL High Voltage Arc Tracking (in./min.)—.49-.58 [12.45-14.73]

Environmental Properties

Max. Continuous Temperature— 150°C [302°F]

Water Absorption (24hrs. % wt. gain)— .45% per ASTM D149 Chemical Resistance—Resistant to acids, alkalies, and aliphatic hydrocarbons and ketones per

ASTM D543 Radiation Resistance (ergs g-1

(C)—2.7 x 108





specified. www.tycoelectronics.com

Tubular Screw: Catalog # 417 & 427-BU

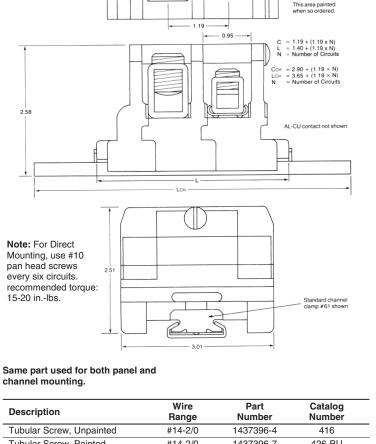
 g-1 1 #250kcmil (MCM), 1 #4/0 AWG, 1 #3/0 AWG, 1 or 2 #2/0 AWG, 1 or 2 #1/0 AWG, 1 or 2 #1 AWG, 1 it 1 to 5 #6 AWG

 Dimensions are in millimeters and inches unless otherwise specified.
 Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 8706-080-208

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Description	Range	Number	Number
Tubular Screw, Unpainted	#14-2/0	1437396-4	416
Tubular Screw, Painted	#14-2/0	1437396-7	426-BU
Tubular Screw, Unpainted	#6-250 kcmil/MCM	1437396-5	417
Tubular Screw, Painted	#6-250 kcmil/MCM	1437396-8	427-BU
End Section	—	1437396-9	430-BU

UL Independent Testing Service Recognitions:

 Tubular Screw: Catalog # 416 & 426-BU

 1 #2/0 AWG, 1 #1/0 AWG, 1 #1 AWG,

 1 or 2 #2 AWG, 1 to 3 #4 AWG, 1 to 3 #6 AWG,

 1 to 4 #8 AWG, 1 to 6 #10 AWG, 2 to 8 #12 AWG,

 Tubular Screw: Catalog # 417 & 427-BU

 1 #250kcmil (MCM), 1 #4/0 AWG, 1 #3/0 AWG,

 1 or 2 #2/0 AWG, 1 or 2 #1/0 AWG, 1 or 2 #1 AWG, 1 to 3 #2 AWG, 1 to 4 #4 AWG,

400 Series, Ultra Heavy Duty Accessories

Mounting Channel Channel Clamps Break Pre-punched Screw Steel Universal Snap-In Away Steel Aluminum Channel Channel Clamps Clamps Channel Clamps Part Number 9-1437381-9 9-1437381-1 9-1437381-2 9-1437381-5 1437382-3 9-1437381-7 9-1437381-8 1437382-2 Catalog Number 64 67 60 63-BU 60-B-36 62 61 68 Standard Length 6 feet 3 feet 6 feet 3 feet 3 feet _ _ _

Marking Accessories



Plastic Cloth Tape	Vinyl Marking Strips	Elevated Marking Strip	Holding Screw
Part Number			
8-1437381-0	6-1437381-3	4-1437391-1	7-1437381-8
Catalog Numbe	er		
55-BU	50-BU	52-BU	53-BU
Standard Leng	th		
50 feet	25 feet	18 inches	—

Notes:

For factory assembled blocks on channel, prefix Catalog # with "0" and suffix with number of blocks desired. Without channel (maximum of 6 sections) delete "0".

Example: Ten tubular screw sections preassembled on channel = 041710

For unpainted factory assembled blocks supplied with a removable marking strip add -1 to Catalog Number.

For blocks with two or more different contact sections, imprinted marking strips or special features, consult Technical Support.

Related Product Data

Wire Pins and Ferrules—Pages 109-111 For more information on AMP Standard Terminals and Splices or Quick-Connect FASTON Receptacles and Tabs, request Catalog 82042.

Catalog 1308389 Revised 6-07

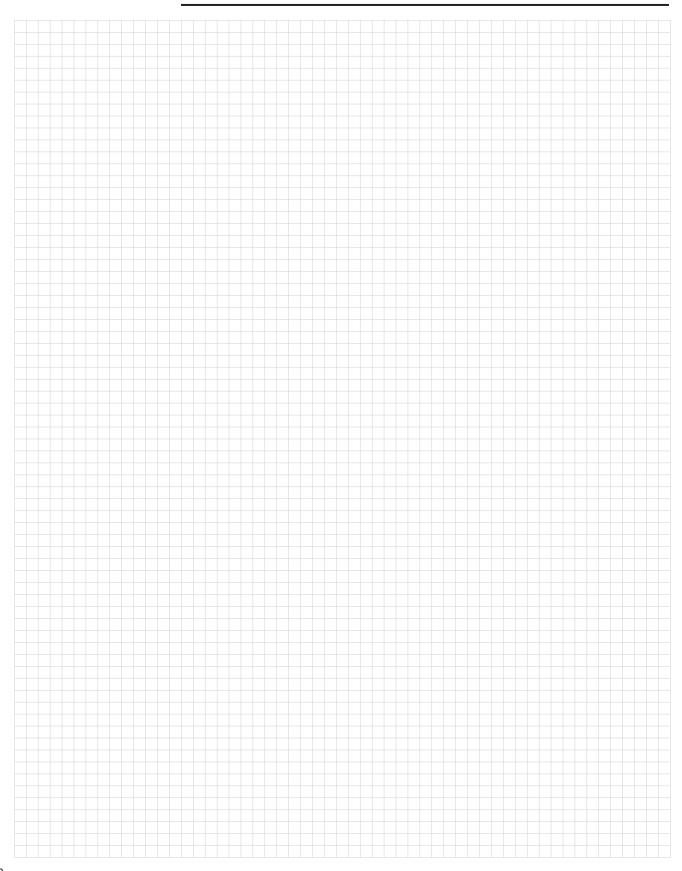
specified. www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise specified. Dimension reference Specification to channe

Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 8706-080-208 NEMA Terminal Lo



Engineering Notes



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Catalog 1308389 Revised 6-07

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Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

Fuse & Switch

Product Facts

€Тусо

- High Density Blocks
- n Fuse and Switch Blocks rated 15A and 300V.

Electronics

n High Density 0.36" [9.14] centerline spacing saves panel space; at least 33 circuits per foot.

Fuse Blocks

- Provide in-line circuit protection for virtually any circuit or group of circuits select contacts for terminated or unterminated wire.
- n Remove, check and replace fuses safely and quickly switch action fuse blocks open circuits before fuse can be removed or installed.
- n Contacts conservatively rated to 30 amperes.

Switch Blocks

- n Quickly and easily interrupt a circuit or group of circuits insert switch blocks directly in line. Contacts available for terminated or unterminated wire.
- n Keep circuits open for extended periods — switch blade can be removed entirely from block for lockout protection.
- ${\rm n}$ Rated to 15 amperes.
- Common Features of 300 & 0300 Series
- n At least 91 circuits per 6-foot length, 3/4 inch center-tocenter spacing.
- n Blocks meet 600 volt clearance and creepage spacings specified in UL, CSA, and NEMA Industrial Control Standards.
- Choose nylon housing material — for more rugged applications; polypropylene for fire retardant characteristics.
- n Dovetail base fits standard mounting channel — can also be mounted on flat surfaces.
- n Only one end section needed per block assembly.

- Readily identify circuits mark directly on white, matte-surface puller assembly, marking tab on block, or use removable marking tape.
- n Open or close several circuits simultaneously holes in puller handles allow use of nylon "ganging" rods.
- n Fuse and Switch block sections snap-fit with 300 & 600 Volt, phenolic Medium Duty, Heavy Duty, and Intermediate Heavy Duty blocks.

This broad line features High Density Blocks (Series 0135), Nylon & Polypropylene Blocks (Series 0300) and Phenolic Blocks (Series 300).



Catalog 1308389 Revised 6-07

Revised 6-07 and inches unless otherwise specified. www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise specified. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 8706-080-208

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0300 Series, Fuse & Switch, Nylon and Polypropylene

		Block Screw		e Block o Clamp		se Block lar Screw		ch Block p Screw
Characteristics Type of Block	Model	Part Number	Model	Part Number	Model	Part Number	Model	Part Number
Channel Mount (Dovetail Base) Nylon	0311	1437397-1	0318	1437397-3	0312	1437397-2	0371	1-1437397-7
Polypropylene	P0311	4-1437397-0	P0318	4-1437397-3	P0312	4-1437397-2	P0371	4-1437397-4
Corrosion Resistant Nylon	D0311	1-1437389-1	D0318	1776726-1	D0312	1-1437389-2	D0371	1-1437389-7
Corrosion Resistant Polypropylene	DP0311	6-1437389-2	DP0318	1776727-1	DP0312	6-1437389-3	DP0371	1776728-1
Contact Type								
	E							
Specifications								
Wire Range (AWG) Solid & Stranded	2	2-8	18	3-8	18	-8		22-8
Wire Strip Length (in.)		_	1	/2	1/	/2		_
Screw Type		0-32 ng head		32 d w/clamp	1/4' set s		bin	10-32 ding head
Ampacity								
	2	25 A	25	5 A	25	A		15 A
End Sections								
Channel Mount, Nylon	0380	2-1437397-0	0380	2-1437397-0	0380	2-1437397-0	0380	2-1437397-0
Channel Mount, Polypropylene	P0380	4-1437397-7	P0380	4-1437397-7	P0380	4-1437397-7	P0380	4-1437397-7

Notes: Standard package is 100 pieces for contact, 25 pieces for end section.

For factory assembled blocks on channel, suffix Catalog Number with number of blocks desired. Without channel delete "0" prefix on Catalog Number.

EXAMPLE: Ten strap-screw fuse block sections preassembled on channel = 031110.

For blocks with two or more contact types, preassembled with other blocks, imprinting or special features, consult Technical Support.

Revised 6-07

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

0300 Series, Fuse & Switch, Nylon and Polypropylene (Continued)







Switch Block Tubular Screw

Model	Part Number	Model	Part Number
0378	1-1437397-9	0372	1-1437397-8
P0378	4-1437397-6	P0372	4-1437397-5
D0378	1776729-1	D0372	1776731-1
DP0378	1776730-1	DP0372	1776732-1
	18-8		8-8
	1/2		1/2
	8-32		4"-28 screw
pan h	ead w/clamp	301	30161

0380	2-1437397-0	0380	2-1437397-0
P0380	4-1437397-7	P0380	4-1437397-7

Specifications

Pitch—0.75" [19.05] centerline, 16 circuits per foot

Voltage Rating—Blocks meet 600 volt creepage and clearance requirements of NEMA, UL and CSA for general industrial control equipment and panelboards.
 Withstand voltages greatly in excess of IEE switchgear standards for 750 volts.
 Fuse Size—Any 13/32 x 1-1/2 in. [10.32 x 28.10] ferrule type cartridge fuse up to 25 amps, indicating or non-indicating, which meets Mil. Spec. F-15160.

Standard Contacts

Material—Electrical grade copper or copper alloy conductor. Steel Screws plated to resist corrosion in most industrial applications

AL-CU Tubular Screw—Aluminum compatibility with aluminum or copper conductors. AL-CU is tin-plated brass.

Environmental Contacts (for highly corrosive atmospheres)

Tubular Screw—Electrical grade copper tube with nickel plating. Nickel plated brass screws.

Strap Screw—Nickel plated brass straps and screws. Nickel plating meets specification QQ-N-290A Class I, Grade G.

Polyamide Material:

Housing Material—Polyamide, Unfilled Type 6/6

Max. Continuous Temperature—125°C, (257°F)

Breakdown Voltage (AC, 60 Hz)—

Contact-to-Contact: 7000V

Contact-to-Ground: 10,000V

Dielectric Strength (RH 40% at Sea Level)—470-385 Volts/mil thickness Per ASTM D149

UL High Voltage Arc Tracking (inches/min.)-01-.35 [.25-8.89]

Water Absorption (24 hrs. % wt. gain)—1.5% per ASTM D570 Flammability—UL94V-2

Radiation Resistance (ergs g-1 (C)—8 × 107

Color—Translucent White

Polypropylene Material:

 $\textbf{Housing Material} \\ \mbox{--} Polypropylene, Filled self-extinguishing}$

Max. Continuous Temperature—105°C, (221°F)

Breakdown Voltage (AC, 60Hz)-

Contact-to-Ground: 10,000V

Contact-to-Contact: 7000V

Dielectric Strength (RH 40% at Sea Level)—500 Volts/mil thickness per ASTM D149

UL High Voltage Arc Tracking (inches/min.)—Did not track Water Absorption (24 hrs. % wt. gain)—0.02% Per ASTM D570

Flammability—UL94V-0

Chemical Resistance—Resistant to most acids, alkalines, and saline solutions. Also resistant to higher aliphatic solvents and polar substances per ASTM D543 **Radiation Resistance (ergs g-1 (C)**— No data Available

Color—Opaque White

Catalog 1308389 Revised 6-07

Fuse Puller:

Switch Handle: Material

Material

Color

and inches unless otherwise specified.

Dimensions are in millimeters

Polypropylene

High-temperature, glass-reinforced nylon

Black

White

Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

0300 Series, Fuse & Switch, Nylon and Polypropylene (Continued)

Mounting Channel

		and the second
Steel Channel	Break Away Steel	Pre-punched Aluminum Channel
art Number		
9-1437381-1 9-1437381-8	9-1437381-2	9-1437381-9 1437382-2
atalog Number		
60 63-BU	60-B-36	64 67
tandard Length		
6 feet 3 feet	3 feet	6 feet 3 feet

Channel Clamps

Marking Accessories



Screw Channel Clamps	Universal Clamps	Snap-In Clamps	Ganging Rod	Coated Cloth Marking tape
Part Number				
9-1437381-5	1437382-3	9-1437381-7	3-1437381-9	8-1437381-0
Catalog Numbe	er			
61	68	62	30	55-BU
Standard Leng	th			
	_	_	2 feet	50 feet

Related Product Data

Wire Pins and Ferrules—Pages 109-111 For more information on AMP Standard Terminals and Splices or Quick-Connect FASTON Receptacles and Tabs, request Catalog 82042.

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Catalog 1308389 Dimensions are in millimeters Revised 6-07

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and inches unless otherwise specified.

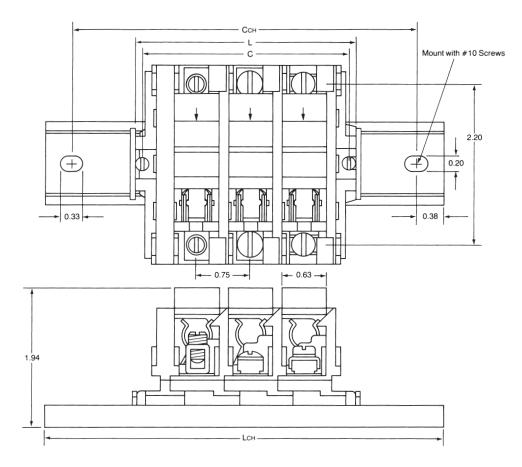
Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803



0300 Series, Fuse & Switch, Nylon and Polypropylene (Continued)

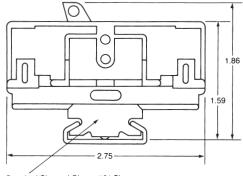
Dovetail Base Mounted On Standard #60 Channel. May Also Be Mounted Direct



CHANNEL MOUNTED	
$\begin{array}{l} {C_{CH}} = 2.28 + (.75 x N) \\ {L_{CH}} = 3.03 + (.75 x N) \\ {N} & = Number \ of \ Circuits \end{array}$	

DIRECT MOUNTED

 $\begin{array}{ll} C &= .56 + (.75 \ x \ N) \\ L &= .78 + (.75 \ x \ N) \\ N &= Number \ of \ Circuits \end{array}$



Standard Channel Clamp #61 Shown

Catalog 1308389 Revised 6-07

> Spe coelectronics.com

Dimensions are in millimeters and inches unless otherwise specified. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 8706-080-208

₹тусо

300 Series, Fuse & Switch, Phenolic



Characteristics	racteristics Strap Screw Strap Clamp		Tubı	ılar Screw		
Type of Block	Model	Part Number	Model Part Number		Model	Part Number
Direct Mount (Flat Base) Fuse Block with Puller	351	2-1437397-8	358	3-1437397-1	352	3-1437397-0
Fuse Block without Puller	361	2-1437397-2	368-BU	3-1437397-5	362-BU	3-1437397-3
Switch Block	341	2-1437397-5	348	2-1437397-7	342	2-1437397-6
Channel Mount (Dovetail Base) Fuse Block with Puller	0351	1437397-9	0358	1-1437397-2	0352	1-1437397-0
Fuse Block without Puller	0361	1437397-4	0368	1-1437397-6	0362	1-1437397-5
Switch Block	0341	1437397-6	0348	1437397-8	0342	1437397-7
Contact Type						
		3				
Specifications						
Wire Range (AWG) Solid & Stranded	22	2-8	18-8		18-8	
Wire Strip Length (in.)	-	-	1/2		1/2	
Screw Type	8-32 binding head		8-32 pan head w/clamp		1/4"-28 set screw	
Ampacity						
Fuse Blocks	25	5A	2	25A		25A
Switch Blocks	15	5A	1	5A		15A
End Sections						
No Contact, Flat Base	330-BU	2-14376397-4	330-BU	2-14376397-4	330-BU	2-14376397-4
No Contact, Dovetail Base	0330	14376397-5	0330	14376397-5	0330	14376397-5

Comparison (Type of Block)

Notes: Standard package is 10 pieces.

For factory assembled blocks, suffix Catalog Number with number of blocks desired (Maximum number of flat base preassembled sections is 6). EXAMPLE:

Twelve strap screw, fuse block sections preassembled on channel = 035112. Six flat tubular screw, switch blocks preassembled without channel for direct mounting = 3426

For blocks with two or more different contact sections, preassembled with other blocks, imprinting or special features, consult Technical Support.

Environmental contacts for highly corrosive atmospheres are available with Nickel plating on non-ferrous hardware. To order, prefix Catalog Number with "D".



Direct Mount (Flat Base)



Channel Mount (Dovetail Base)





South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013

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Catalog 1308389 Revised 6-07

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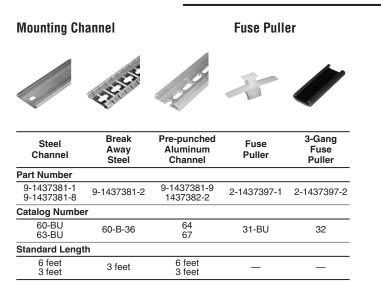
Dimensions are in millimeters and inches unless otherwise

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

UK: 8706-080-208

300 Series, Fuse & Switch, Phenolic-Accessories



Channel Clamps

Marking Accessories





Screw Channel Clamps	Universal Clamps	Snap-In Clamps	Ganging Rod	Coated Cloth Marking Tape
Part Number				
9-1437381-5	1437382-3	9-1437381-7	3-1437381-9	8-1437381-0
Catalog Numbe	r			
61	68	62	30	55-BU
Standard Lengt	h			
	_	_	2 feet	50 feet

Physical Properties

Housing Material—Phenolic, filled flame retardant Color—Black

Contacts

Material—Copper alloy spring clips. Steel screws plated to resist corrosion in most industrial applications

Strap Screw—11/32" max. lug width

Mechanical Properties

Pitch (terminal spacing)—0.75" [19.05] (16 circuits per foot)

Switch Handles

Material—Polypropylene

Color—White

Electrical Properties

Operating Voltage—Blocks meet 600V creepage and clearance requirements of NEMA, UL and CSA standards for general industrial control equipment and panelboards; withstand voltage exceeds IEEE switchgear standards for 750V

Dielectric Strength (RH 40% @ sea level)— 300 volts/mil thickness per ASTM D149

UL High Voltage Arc Tracking (inches/min.)— .49-.58 [12.45-14.73]

Fuse Size—Any 13/32 x 1-1/2 in. [10.32 x 38.10] ferrule type cartridge fuse up to 25 amps, indicating or non-indicating, which meets Mil. Spec. F-15160, is recommended.

Environmental Properties

Max. Service Temperature—150°C (302°F)

Water Absorption (24hrs. % wt. gain)—0.45% per ASTM D570

Flammability Rating-UL94V-1

Chemical Resistance—Resistant to acids, alkalies, and aliphatic hydrocarbons and ketones, per ASTM D543

Radiation Resistance (ergs g-1 (C)-2.7 x 108

UL Independent Testing Service Recognitions:

Wire Sizes—Solid or Stranded, Tubular Screw Cat. # 362-BU, 0362 1 #4 AWG, 1 #6 AWG, 1 #8 AWG, 1 to 4 #10 AWG, 1 to 5 #12 AWG, 1 to 6 #14 AWG, 1 to 6 #16 AWG, 1 to 8 #18 AWG

Cat #'s 31 and 32



E63810

Related Product Data

Wire Pins and Ferrules—Pages 135-137 For more information on AMP Standard Terminals and Splices or Quick-Connect FASTON Receptacles and Tabs, request Catalog 82042.

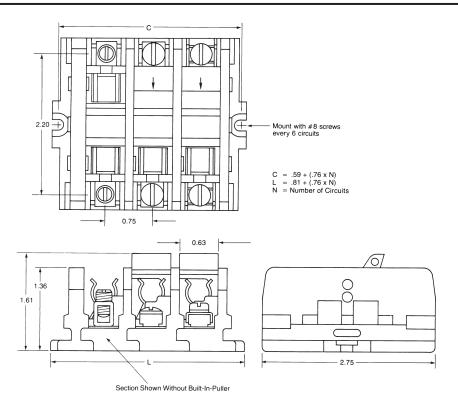
Catalog 1308389 Revised 6-07

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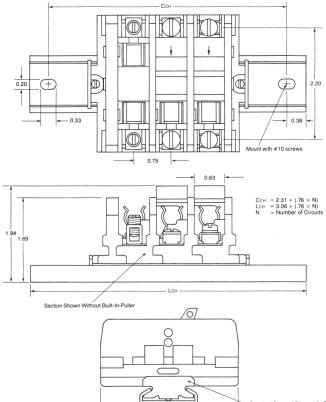
Dimensions are in millimeters and inches unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

300 Series, Fuse & Switch, Phenolic, Flat Base



Dovetail Base Mounted On Standard #60 Channel



Standard Channel Clamp #61 Shown

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Catalog 1308389 Dimensi Revised 6-07 and inch specifier

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Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

2 75

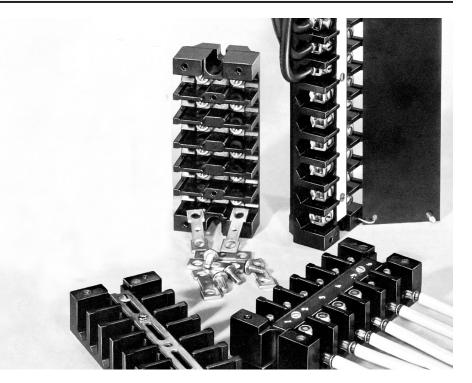
₹тусо **Electronics**

One-Piece Phenolic Blocks

Product Facts

- n Two, four, six, eight, and twelve circuit models available — 5/8" [15.88] center-to-center contact spacing.
- n No assembly required each is a single, easily installed unit.
- **n** Three contact styles available -strap screw, captive strap clamp, and moving tubular contact.
- n Use wire up to #6 AWG with tubular contact. Strap screw and strap clamp contacts are available for #8 and smaller.
- n Withstand voltages in excess of IEEE standards for 750 volts. Meet clearance and creepage spacings specified in UL, CSA, and NEMA **Industrial Control Standards** for 600 Volts.
- ${\rm n}$ Strap contacts rated at 50 amperes — tubular contact conservatively rated at 70 amperes.
- n Pilot point screws supplied with strap screw and clamp contacts —speeds installation time.
- n Plain white marking strip supplied with each block circuits are easily identified.
- n Special purpose blocks available-choose from blocks with solder posts, printed circuit board pins, or nuts on screw posts, removable circuit links, and a shorting bar.

Traditionally, these rugged One-Piece Blocks are the standard means of connection for heavy industrial applications like rail transport, utility, and traffic control industries. Ideal for dirty and vibration prone environments.



NEMA Terminal Blocks



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Catalog 1308389 Revised 6-07

www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

Material & Finish

₹ Tyco

Housing Material—Phenolic, filled flame retardant Flammability-UL94V-1 Color-Black

Electronics

Contacts

Standard Material—Electrical grade copper or copper alloy conductor. Steel screws plated to resist corrosion in most industrial applications

Brass Material—For Corrosive Environment (2B100, 4B100 Series) Nickel plated brass straps and screws. Meets specification QQ-N-290A Class 1, Grade G

Wire Range—Strap Screw: #18-8 AWG solid or stranded; Tubular Clamp: #14-6 AWG solid or stranded

Screw Type—Strap Screw: #10-32 Binding Head; Tubular Clamp: #1/4"[6.35]-28 Set Screw

Strap Screw—7/16" [11.11] max. lug width

Mechanical Properties

Pitch (terminal spacing)-.63" [16.00]

Wire Strip Length-Strap Screw: as needed for lugging; Tubular Clamp: 1/2" [12.1]

Electrical Properties

Maximum Current—70A for a single #6 AWG wire

Operating Voltage-Blocks meet 600V creepage and clearance requirements for general industrial control equipment and panelboards; greatly exceeds IEEE switchgear standards for 750 volts.

Dielectric Strength (RH 40% @ sea level) - 300 Volts/mil thickness per ASTM D149

UL High Voltage Arc Tracking (in./min.)-49-.58 [12.45-14.73]

Environmental Properties

Max. Continuous Temperature-150°C (302°F)

Water Absorption (24hrs. % wt. gain)---.45% per ASTM D570

Chemical Resistance—Resistant to acids, alkalies, and aliphatic hydrocarbons and ketones per ASTM D543

Radiation Resistance (ergs G⁻¹ (C)-2.7 x 108 min

UL Independent Testing Service Recognitions

Wire Sizes—Solid or Stranded, Tubular Clamp

1—#6 AWG, 1—#8 AWG, 1or 2— #10 AWG, 1or 2—#12 AWG, 1 to 3— #14 AWG, 1 --- #10 & 1 --- #12 AWG 1 — #12 & 1 — #14 AWG

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Catalog 1308389 Revised 6-07

www.tycoelectronics.com



Circuits		Screw Strap		ular mp	Brass w/S	
	Part Number	Catalog Number	Part Number	Catalog Number	Part Number	Catalog Number
Contact Type						
AMPACITY	E					
	50	A	6	5A	50	A
Standard						
2	2-1437382-6	B102	2-1437382-8	B102S	2-1437381-0	2B102
4	3-1437382-0	B104	3-1437382-6	B104S	2-1437381-2	2B104
6	4-1437382-0	B106-BU	4-1437382-5	B106S	2-1437381-6	2B106
8	4-1437382-9	B108	5-1437382-5	B108S	3-1437381-0	2B108
12	5-1437382-9	B112-BU	6-1437382-7	B112S	3-1437381-3	2B112
Shorting*						
2	4-1437381-0	3B102P	_	_	5-1437381-6	4B102P
4	4-1437381-1	3B104P	_	_	5-1437381-7	4B104P
6	4-1437381-3	3B106P	_		5-1437381-8	4B106P
8	4-1437381-5	3B108P	_	_	5-1437381-9	4B108P
12	4-1437381-7	3B112P	_	_	6-1437381-0	4B112P

Circuits	Strap S #8 & Sn		Threaded Post & Nut		
Removable Lii	nk				
2	8-1437381-4	5B102	_	_	
4	8-1437381-5	5B104	_	_	
6	8-1437381-7	5B106	_	_	
8	8-1437381-8	5B108	_	_	
12	9-1437381-0	5B112	_		
Stud, #10-32					
2	_	_	1-1437382-8	7B102	
4	_	_	2-1437382-0	7B104	
6	_	_	2-1437382-1	7B106	
8	_	_	2-1437382-2	7B108	
12	_	_	2-1437382-3	7B112	

For prenumbered marking strip, add suffix "N" to Catalog Number. Cannot be used on 3B or 4B series.

For factory assembled hinged cover, add suffix "H" to Catalog Number. Cannot be used on 3B or 4B series.

For factory assembled thumbscrew-fastened cover, add suffix "T" to Catalog Number. Cannot be used on 3B or 4B series.

Screws and removable links shipped unassembled.

*Shorting blocks are supplied with 2 shorting screws each.



LB25557

South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 8706-080-208

Dimensions are in millimeters and inches unless otherwise

specified.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 Except for 3B and 4B Series



B100, #B100 Series, One-Piece Blocks, 600 V — Phenolic Accessories

Covers and Marking









Circuits	Laminated Phenolic Cover		Shorting Block Cover		White Marking Strip		Numbered Marking Strip	
	Part Number	Catalog Number	Part Number	Catalog Number	Part Number C	atalog Number	Part Number Ca	talog Number
2	7-1437382-5	C102-BU	9-1437382-2	CS102	1-1437383-5	S102	1776733-2	N102
4	7-1437382-6	C104-BU	9-1437382-3	CS104	1-1437383-6	S104	1-1437383-1	N104
6	7-1437382-7	C106-BU	9-1437382-4	CS106	1-1437383-7	S106	1-1437383-2	N106
8	7-1437382-8	C108-BU	9-1437382-5	CS108	1-1437383-8	S108	1-1437383-3	N108
12	7-1437382-9	C112-BU	9-1437382-6	CS112	1-1437383-9	S112	1-1437383-4	N112

Jumpers

Hardware





1/7	JJJJJJJ	
0A Copper Jumpers	50A 12 Circuit Jumpers	

90

Circuits	30A C Jum		50A 12 Jumj		Conne Lir		Lock	Lock Nuts		ing w
	Part No.	Catalog No.	Part No. 0	Catalog No.	Part No.	Catalog No.	Part No.	Catalog No.	Part No. C	atalog No.
2	1437383-2	J102	_	_	_	_	_	_	_	_
4	1437383-3	J104	—	—	—	_	_	_	_	—
6	1437383-4	J106	_	_	—	—	_	—	—	_
8	1437383-5	J108	_	—	—	_	—	—	_	—
12	1437383-6	J112	1437395-9	HJ112	_	_		_	_	
rdware										
_	_	_	_	_	9-1437382-	0 CL101	1437383-7	LN101-BU	7-1437381-7	51-BU

Related Product Data

Wire Pins and Ferrules—Pages 109-111 For more information on AMP Standard Terminals and Splices or Quick-Connect FASTON Receptacles and Tabs, request Catalog 82042.

Catalog 1308389 Revised 6-07

www.tycoelectronics.com

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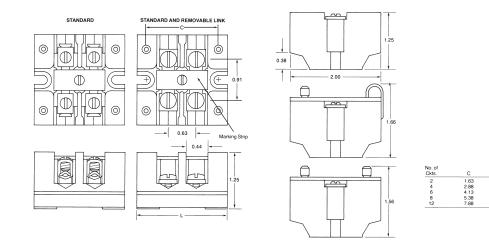
USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

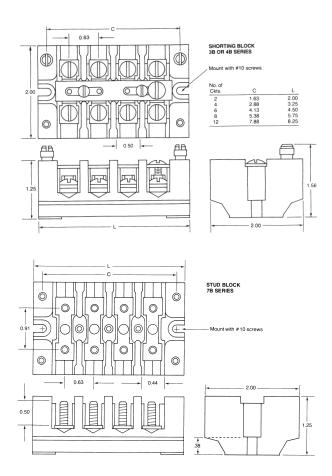


South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 8706-080-208

NEMA Terminal Blocks

B100, #B100 Series, One-Piece Blocks, 600 V — Phenolic





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Catalog 1308389 Dimension Revised 6-07 and inchesson

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2.00 3.25 4.50 5.75 8.25

Pre-Printed Marking Strips

6

Circuit identification is greatly simplified with the use of pre-printed strips for BUCHANAN terminal blocks. These hot-stamped strips are available for all snap-assembled sections (except Fuse, Switch, and Circuit Breaker models which are marked individually). The strips can be ordered separately or pre-installed on factory assembled sectional block units.

Unlike painted or screened letters, hot-stamped letters are designed to not rub or flake off during industrial use so that they will retain their legibility.

Marking strips are stamped with consecutive numbers that can be ordered to read from left-to-right or right-toleft, and in vertical or horizontal positions. Number sequences can begin with any number. This allows circuits to be identified in a manner most consistent with the terminal block application.

	M	<u>50</u>	<u>005</u>	<u>13</u>	<u>G</u>	
	A	6	O	D	9	
)	Termin Design 10 = Mi 12 = Do 67 = 90 24 = Ny 21 = Ph 80 = Int	al Block S ator niature or ouble Tier 0 Series M vlon Heavy nenolic Heavy nenolic Heavy sermediate tra Heavy 1 SB230 SB500 SB1000	Single Tier ledium Duty Duty avy Duty Heavy Duty	0	Consecutiv (Use three c $055 = 55$, et Marking Sty $11 = 1 \ 2 \ 3 \ 4$ $12 =5 \ 4 \ 3$ $13 = \infty$ $14 = + \infty$	yle Options 5] 2 1 ຕຸຊຸທ ຕຸດຊຸມ ອຸດຊຸມ ber In Series"
	whine Ct	rin Inotall	od		E = 5	K = 0
d	irkiliy ət	rip Install	eu			

Marking Strip Installed On A Factory-Assembled Terminal Block

•					
	<u>615</u>	<u>005</u>	<u>11</u>	Α	
	۵	6	G	D	
A	Basic Sectional	Block Catalog	# D	"First Numbe Designator*	er In Series"
6	Number of Circa Assembled and Numbered (Use three digits 055 = 55, etc.)	Consecutively	-	A = 1 B = 2 C = 3 D = 4 E = 5	F = G = H = J = K =
C	Marking Style O 11 = 1 2 3 4 5 12 = 5 4 3 2 1	ptions			

- **12** = ...5 4 3 2 1 13 = - NO40...
- 14 = ... ut mar
- * Letters in this position designate the first number to be used in the consecutive sequence. Ex.: "A" would start the sequence with the number 1. "EK" would start the sequence with the number 50. "BKK" would start the series with 200. For non-sequential numbering and special characters, consult Technical Support.

Dimensions are in millimeters and inches unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 8706-080-208

F = 6

G = 7 **H** = 8 **J** = 9 $\mathbf{K} = \mathbf{0}$

Technical Summary

	Terminal Block	Contact Type	Screw			Recomn Screw		Wire	Wire	Rec.
Cat. No.	or Product Line	Material Plate	Screw Style	Slot Size	Material & Plating	Dimen Tip Thick		Strip Length	Range AWG	Torque in Ib.
105-BU	High Density	Electroplated Tubular	6-32 Slotted	033" Wide x .040" Deep	Steel Electroplated	.020"	9/64" [.02]	5/16" [7.94]	#12-30	10
115 105 DU	Tubular Clamp	Copper Contact	Head Screw	[.84 x 1.02] Steel		[]	[]	[]		
125-BU 211	HeavyDuty	Copper	Binding	062" Wide x	"	.037"	1/4"	As Needed	#8 or Smaller	12
241	Strap Screw	Alloy Strap Electroplated	Head 10-32 Thread	062" Deep [1.57 x 1.57]		[.94]	[6.35]	for Lugging	Smaller	
212	Heavy Duty	Electroplated	Headless 1/4"-28 Thd.	3/64" Wide x 1/16" Deep	"	££	"	1/2" [12.7]	#4-18	35
222-BU 242	Tubular Screw	Tubular Copper Contact	Slotted	[1.19 x 1.59]				[12.7]		
213 243	Heavy Duty Tubular Clamp	"	"	"	"	ű	ű		#6-18	35
218	Heavy Duty	Copper Alloy	Pan Head	3/64" Wide x 3/64" Deep	"	"	"		#8-18	12
248	Strap Clamp	Strap Electroplated	Saddle Clamp 8-32 Thd.	[1.19 x 1.19]						
351	Fuse Block	Copper Alloy	Binding Head		ű	"	"	As Needed	#8 or Smaller	10
361 0311	Strap Screw	Electroplated Spring Temper	8-32 Thd.					for Lugging		
358 368 318	Fuse Block Strap Clamp	ű	Pan Head w/SaddleClp. 8-32 Thd.		"	66	"	1/2" [12.7]	#8-18	"
352	Fuse Block	Same as above except use H.D.	Headless 1/4"-28 Thd. slotted		"	u	"	"	ű	"
362-BU 312	Tubular Screw	Tubular Contact	olottou							
341 371 342	Switch Block Strap Screw	CopperAlloy Electroplated Spring Temper			"	"	"	As Needed for Lugging	#8 or Smaller	"
348 0378	Switch Block Strap Clamp	"	Pan Head w/SaddleClp 8-32 Thd.		"	"	"	1/2" [12.7]	#8-18	
342 0372	Switch Block Tubular Screw	Same as above except use H D. Tubular Contact			"	"	"	"	ű	
416 426-BU	Extra Heavy Duty Tubular Screw	Electroplated- Tubular Copper Contact	1/2"-13 Hex Socket Hd. Set Screw	1/4" [6.35] Hex	ű	1/2" [12.7] Hex	T-Bar Key	7/8" [22.23]	#12-2/0	200

Note: Representative Catalog Numbers Listed.

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Catalog 1308389 Dim. Revised 6-07 and spec www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise specified. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803



Technical Summary (Continued)

Cat.	Terminal Block or Product	Contact Type Material	Screw	Screw	Material	Recomr Screw Dimen	driver	Wire Strip	Wire Range	Rec. Torque
No.	Line	plate	Style	Slot Size	& Plating	Tip Thick	Tip Width	Length	AWG	in Ib.
417	Extra HD	Electroplated	3/4"-16 Hex Socket Head	3/8" Hex [9.53]	Steel Electroplated	3/8" Hex [9.53]	KeyT-Bar	1" [25.4]	#6-250	375 kcmil (MCM)
427-BU	Tubular Screw	Tubular Copper Contact	Set Screw							
517 617 717	Medium Duty Quick-Connect	1/4" Wide QC .032" Thk Copper Alloy Electroplated	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1546235-	1 Medium Duty Tubular Clamp	Electroplated Tubular Copper Contact	10-32 Slotted Hd	.046" Wide x .046"Deep [1.17 x 1.17]	Steel Electroplated	.032" [.81]	3/16" [4.76]	11/32" [8.73]	#10-22	8
1546152-	1 Medium Duty QC & Tubular Screw	1/4" Wide QC .032" Thk. Tubular Contact Both Copper Alloy Electroplate	" d	H	I	H	u	u	#8-18	10
1546148-	1 Medium Duty Tubular Screw	Electroplated Tubular Copper Contact	н	N	H	H	H	N		8
1546143-	1 Medium Duty Strap Screw	Copper Alloy Strap Electroplated	6-32 Thd. Slotted Binding Hd.	3/64" Wide x 3/64" Deep [1.19 x 1.19]	н	u	н	As Needed for Lugging	#8 or Smaller	12
824-BU	Intermediate Tubular Screw	Electroplated Tubular Copper Contact	7/16"-20Thd. Slotted Headless	5/64" Wide x 5/64" Deep [1.98 x 1.98]	H	.041" [1.04]	3/8" [9.53]	11/16" [17.46]	#12-1/0	50
B102 B112-BU	One-Piece Blk. Strap Screw	Copper Alloy Strap Electroplated	10-32 Thd. Slotted Binding Hd.	1/16" Wide x 1/16" Deep [1.59 x 1.59]	11	.037" [.94]	1/4" [6.35]	As Needed for Lugging	#8 or Smaller	20
B102S B112S	One-Piece Blk. Tubular Contact	Tubular Contact	1/4" -28 Thd. Headless Set Screw	3/64" Wide x 3/64" Deep [1.19 x 1.19]	II	н	H	1/2" [12.7]	#6-14	45

Note: Representative Catalog Numbers Listed.

www.tycoelectronics.com

UL 1059 Basic Voltage Rating

Voltage ratings of terminal blocks are based on the minimum spacing between electrical conductive parts of opposite polarity or between an electrically conductive part and a metal mounting surface measured under two conditions: Through Air, defined as the distance an arc must take through the air to go from one live conductor to another or from a live conductor to ground; and Over Surface, defined as the distance an arc must take over a surface of the insulating material going from one terminal to ground, assuming the arc will travel along the surface rather than through the air. The following chart shows UL 1059 spacing requirements in inches.

Voltage Rating

Description	Voltago	Spacing Requirements			
Description	Voltage	Thru Air	Over Surface		
Class A					
Service equipment including deadfront	51 - 150	1/2 [12.7]	3/4 [19.05]		
switchboards, panel boards, service	151 - 300	3/4 [19.05]	1 1/4 [31.75]		
entrance devices, etc.	251 - 600	1 [25.4]	2 [50.8]		
Class B					
Commercial appliances including	51 - 150	1/16 [1.59]	1/16 [1.59]		
ousiness equipment, electronic data	151 - 300	3/32 [2.38]	3/32 [2.38]		
processing equipment and the like	251 - 600	3/8 [9.53]	1/2 [12.7]		
Class C					
General industrial and machine tools;	51 - 150	1/8 [3.18]	1/4 [6.35]		
controls which can be further defined	151 - 300	1/4 [6.35]	3/8 [9.53]		
as equipment falling under UL508	301 - 600	3/8 [9.53]	1/2 [12.7]		
Devices having limited ratings ^a	51 - 300	1/16 [1.59]	1/8 [3.18]		
Jevices naving influed fallfigs"	301 - 600	3/16 [4.76]	3/8 [9.53]		
	301 - 000	5/10 [4.70]	5/0 [9.55]		

^aLoad on any single circuit can not exceed 15 A at 51-150 V, 10 A at 151-300 V, 5 A at 301-600 V or the maximum current rating, whichever is less.

Standard Test Criteria

Test	Per:
Heat Cycling (term)	UL486E Section 10
Static Heating (term)	UL486E Section 11
Secureness	UL486E Section 12
Pullout	UL486E Section 14
Heating Test (block)	UL1059 Section 10
Dielectric Withstand	UL1059 Section 11
Strength of Base	UL1059 Section 13
Tab Pull	UL1059 Section 14
VPTA	UL1059 Section 15
Salt Spray	MIL-202 Method 101
Solderability	MIL-202 Method 208
Solvents	MIL-202 Method 215

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Dimensions are in millimeters and inches unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

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 151
 152