

DESCRIPTION/APPLICATION

The Tri-Barrier product is an original Thomas & Betts design and we set new terminal block standards with its introduction. In recent years, some of our competition has copied this design.

It's easy to see why we're copied. Our Tri-Barrier blocks help contain stray or frayed wire ends. This prevents electrical shorts — not only between positions on the same block, but also between other components immediately adjacent to the block. With today's high-density PCB designs, this has become an increasingly important feature.

APPLICATIONS

- Industrial controls and automation
- Machine tools
- HVAC/R
- Power supplies
- Security/Irrigation
- Transformers

DESIGN ADVANTAGES

- Back barriers to safeguard field wiring
- Fast wiring – backed-out wire-ready screws
- Interrupted thread prevents screws from falling out
- Standoffs allow flux and solvents to drain during cleaning
- Molded-to-length or cut-to-length versions available
- Slotted or phil-slot screws available

TRI-BARRIER STRIPS



CONNECTOR INDEX		
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0.250" PITCH SERIES #3

PHYSICAL PROPERTIES

HOUSING MATERIAL: Polypropylene

FLAMMABILITY: UL94V-0

COLOR: Black

TERMINAL

TERMINALS: Bright acid tin over copper alloy

SCREWS: #3-48 steel, zinc plating with clear chromate coating. Wire clamping screws standard.

MECHANICAL

PITCH (TERMINAL SPACING): 0.250"

RECOMMENDED PCB HOLE DIA.: 1.8mm (.073")

RECOMMENDED TIGHTENING TORQUE: 5.5 in.-lbs.

ELECTRICAL PROPERTIES

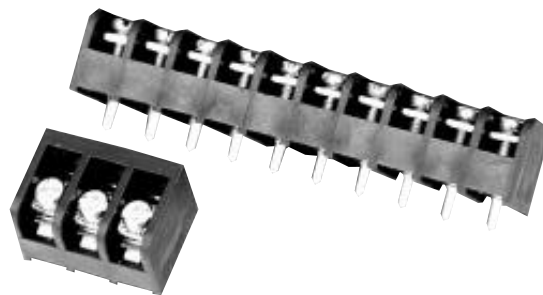
MAXIMUM CURRENT: 10A

OPERATING VOLTAGE: 150V (limited rating)

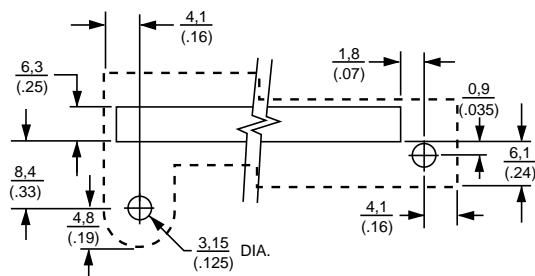
WIRE RANGE: 18-22 AWG

ENVIRONMENTAL PROPERTIES

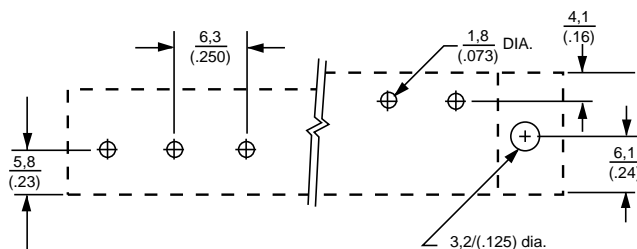
OPERATING TEMPERATURE RANGE: 105°C max



3PCV-03 & 3PCV-10



RIGHT ANGLE MOUNTING PANEL LAYOUT



RIGHT ANGLE PRINTED CIRCUIT LAYOUT

0.250" PITCH
SERIES #3

ORDERING INFORMATION

3 **PCV** - **04** - **004**

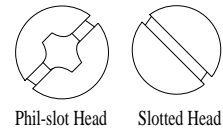
(A) (B) (C) (D)

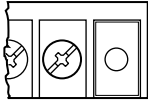
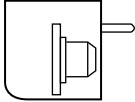
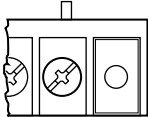
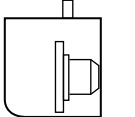
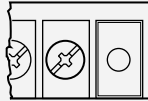
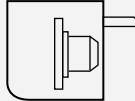
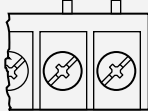

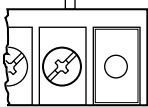
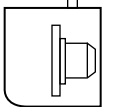
A Screw Size Spacing
3 = #3-48 on .250" Centers

C No. of Circuits (Not Positions)
02 through 32

B Terminal Style
PCV = Printed Circuit Pin, Vertical
PCR = Printed Circuit, Right Angle
STV = Solder Turret, Vertical
STR = Solder Turret, Right Angle
WWV = Solderless Wire Wrap, Vertical

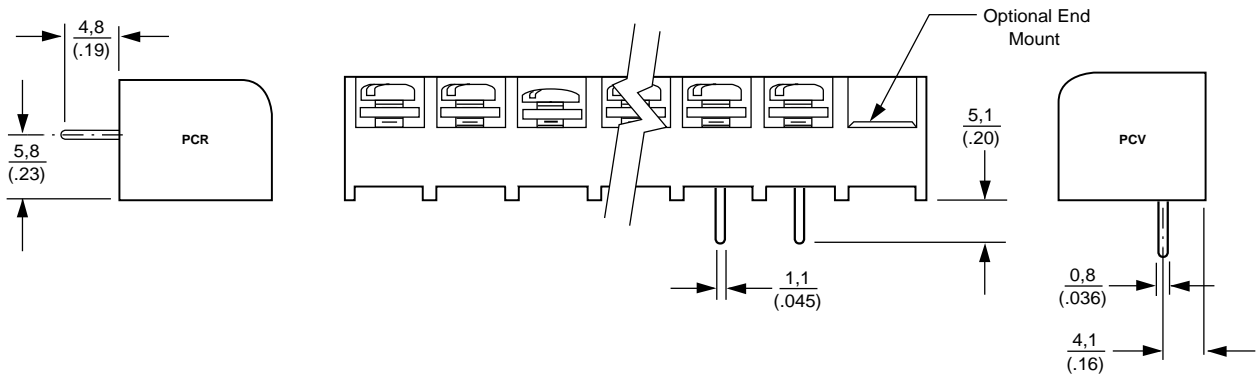
D Modifier
Use table below.
Note: If modifier is -000
it may be omitted. (3PCV-06)



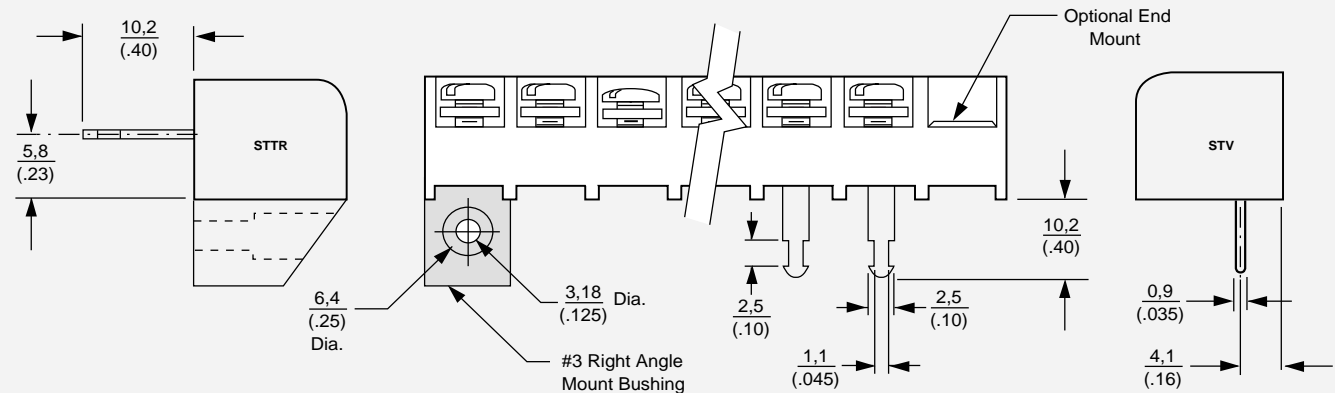
Terminal Style	Modifier Slotted Head	Modifier Phil-slot Head	Screw Style	Mounting Construction
PCV	000	006	Wire Clamp	No Mounting
	004	008	Wire Clamp	 
PCR	000	006	Wire Clamp	No Mounting
	004	008	Wire Clamp	 
STV WWV	000	006	Wire Clamp	 
	004	008	Wire Clamp	No Mounting
STR	000	006	Wire Clamp	 
	004	008	Wire Clamp	 

0.250" PITCH
SERIES #3

Printed Circuit Pin

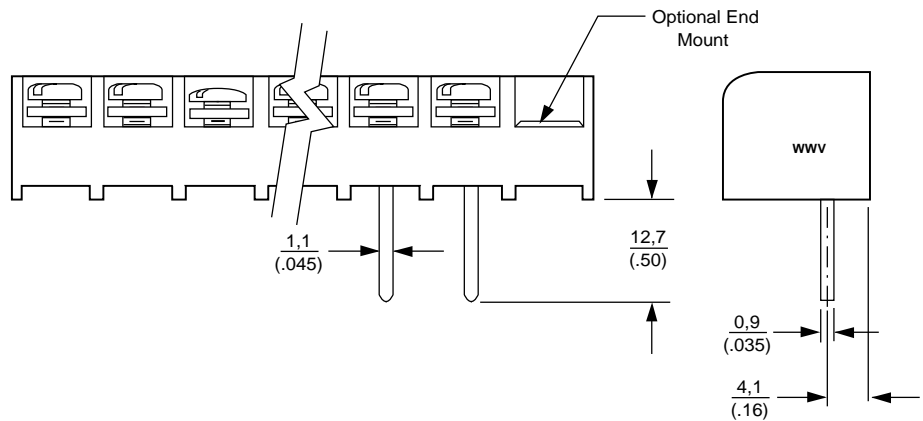


Solder Turret

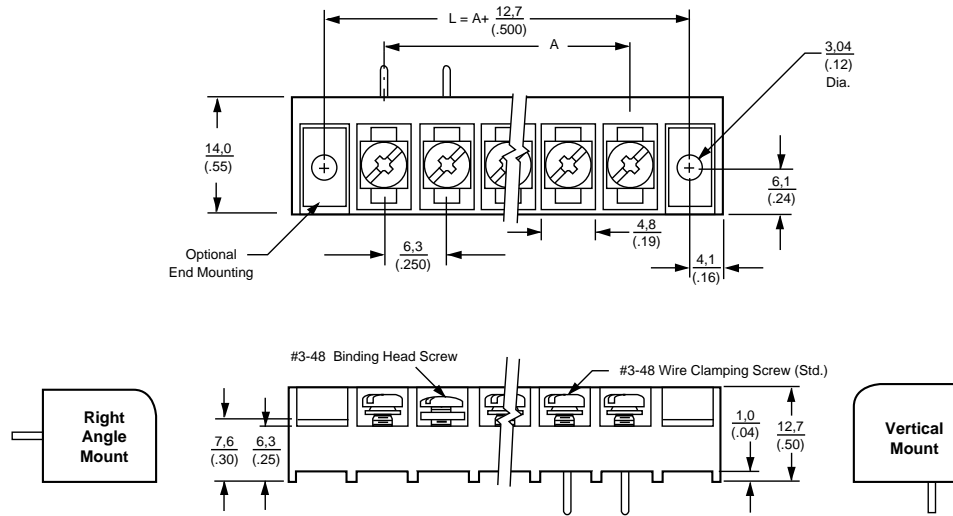


Wire Wrap

#3WWR not available



0.250" PITCH
SERIES #3



TERMINALS	A	TERMINALS	A
2	(0.25) 6,3	18	(4.25) 107,9
3	(0.50) 12,7	19	(4.50) 114,3
4	(0.75) 19,0	20	(4.75) 120,6
5	(1.00) 25,4	21	(5.00) 127,0
6	(1.25) 31,7	22	(5.25) 133,3
7	(1.50) 38,1	23	(5.50) 139,7
8	(1.75) 44,4	24	(5.75) 146,0
9	(2.00) 50,8	25	(6.00) 152,4
10	(2.25) 57,1	26	(6.25) 158,8
11	(2.50) 63,5	27	(6.50) 165,1
12	(2.75) 69,8	28	(6.75) 171,5
13	(3.00) 76,2	29	(7.00) 177,8
14	(3.25) 82,5	30	(7.25) 184,2
15	(3.50) 88,9	31	(7.50) 190,5
16	(3.75) 95,2	32	(7.75) 196,9
17	(4.00) 101,6		

0.250" PITCH SERIES RSB2

PHYSICAL PROPERTIES

HOUSING MATERIAL: Polypropylene

FLAMMABILITY: UL94V-0

COLOR: Black

TERMINAL

TERMINALS: Brass, bright tin plating

SCREWS: #3-48 steel, zinc plating with clear chromate coating

CLAMP: Steel, zinc plating with clear chromate coating

MECHANICAL

PITCH (TERMINAL SPACING): 0.250"

RECOMMENDED PCB HOLE DIA.: 0.073"

RECOMMENDED TIGHTENING TORQUE: 5.5 in lbs.

RECOMMENDED SCREWDRIVERS: Any #1 Phillips-head

ELECTRICAL PROPERTIES

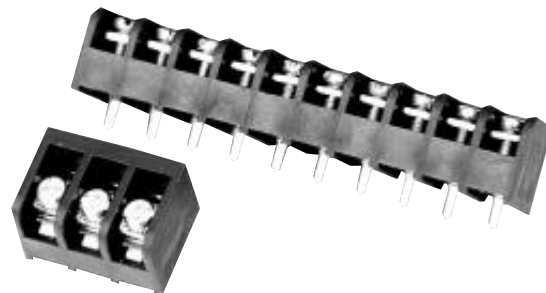
MAXIMUM CURRENT: 10A

OPERATING VOLTAGE: 300V

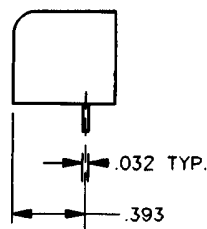
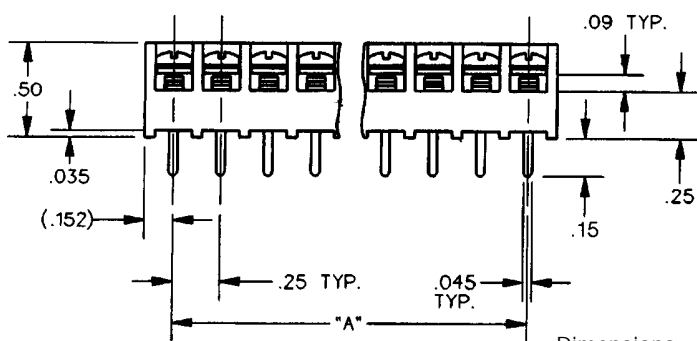
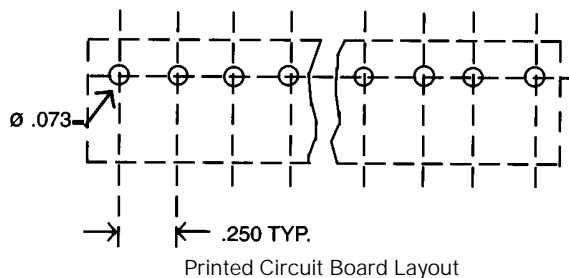
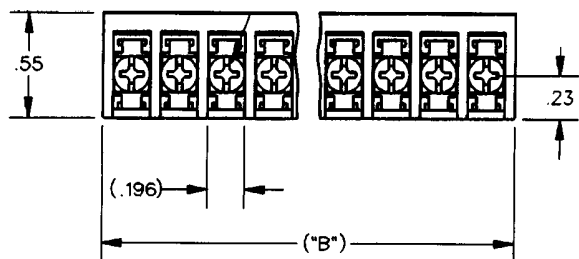
WIRE RANGE: 18-22 AWG

ENVIRONMENTAL PROPERTIES

MAX. OPERATING TEMPERATURE: 105°C



RSB2VP##1102



TERMINALS	A	B	TERMINALS	A	B
2	0.25"	0.55"	9	2.00"	2.30"
3	0.50"	0.80"	10	2.25"	2.55"
4	0.75"	1.05"	11	2.50"	2.80"
5	1.00"	1.30"	12	2.75"	3.05"
6	1.25"	1.55"	13	3.00"	3.30"
7	1.50"	1.80"	14	3.25"	3.55"
8	1.75"	2.05"	15	3.50"	3.80"
			16	3.75"	4.05"

BUCHANAN.



0.250" PITCH
SERIES RSB2

ORDERING INFORMATION

RSB 2 V P 06 11 02 11
A B C D E F G H

- A** Single Screw Tri-Barrier Strip RSB
- B** Contact Spacing (Center-to-Center) 2=.250 in.
- C** Mounting Position V=Vertical Mounting
- D** End Contact Mounting Options P=Direct Mounting: all positions filled with contacts, with barriers
- E** No. of Circuits (Not Positions) 02 through 16
- F** Terminal Style 11=Printed Circuit Pin
- G** Top Hardware Options Catalog Number Code: 02. For applications requiring extra security, captive clamps under the screw heads augment the locking tabs on each contact. Screws are Phil-slot bright zinc and chromate plated steel.

- H** Circuit Identification Options Request drawing #7015015 for complete information. Custom markings are available on special order.

NN=No Circuit Identification

Front	Top
11	21 = 12345...
12	22 = ...54321
13	23 = ...12345...
14	24 = ...54321...
15	25 = ...12345...
16	26 = ...54321...
17	27 = ...12345...
18	28 = ...54321...

