

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 |                                      |        |
|-----------------|--------------------------------------|--------|
| 0.250"          | Pitch, Series #3.....                | 56-59  |
| 0.250"          | Pitch, Series RSB2.....              | 60, 61 |
| 0.325"          | Pitch, Series #4.....                | 62-65  |
| 0.325"          | Pitch, Series RSB3.....              | 66-69  |
| 0.375"          | Pitch, Series #6.....                | 70-73  |
| 0.375"          | Pitch, Series RSB6.....              | 74-77  |
| 0.375"          | Pitch, Series BC6, Panel Mount.....  | 78-79  |
| 0.375"          | Pitch, Series MB6, Double Level..... | 80, 81 |
| 0.4375"         | Pitch, Series #8.....                | 82, 83 |

## 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

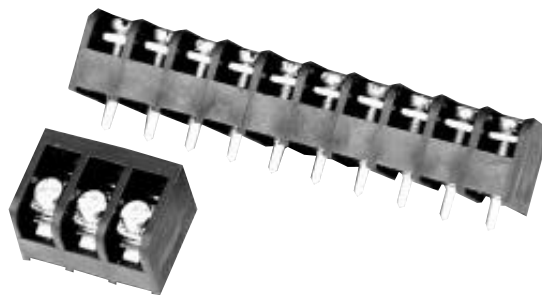
MAXIMUM CURRENT: 10A

OPERATING VOLTAGE: 150V (limited rating)

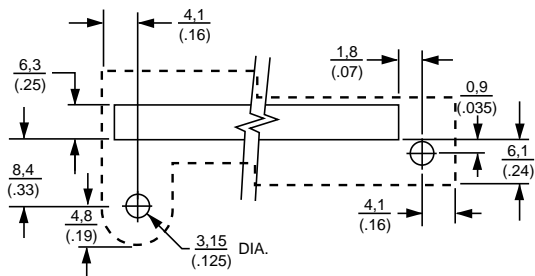
WIRE RANGE: 18-22 AWG

### ENVIRONMENTAL PROPERTIES

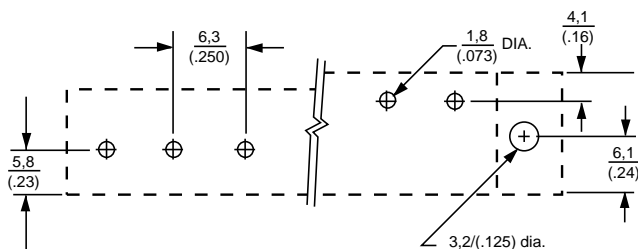
OPERATING TEMPERATURE RANGE: 105°C max



3PCV-03 & 3PCV-10



RIGHT ANGLE MOUNTING PANEL LAYOUT VERTICAL



RIGHT ANGLE PRINTED CIRCUIT LAYOUT CENTER

0.250" PITCH  
SERIES #3

ORDERING INFORMATION

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

A

B

C

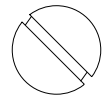
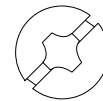
D

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

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

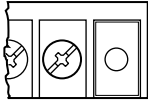
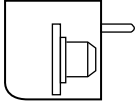
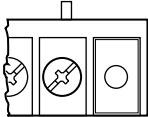
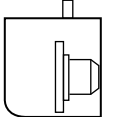
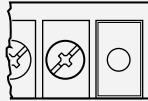
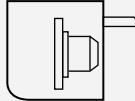
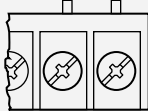
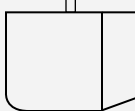
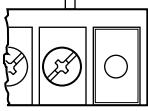
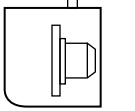
**B** Terminal Style  
PCV = Printed Circuit Pin, Vertical  
PCR = Printed Circuit, Right Angle  
STV = Solder Turret, Vertical  
STR = Solder Turret, Right Angle  
WWV = Solderless Wire Wrap, Vertical

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



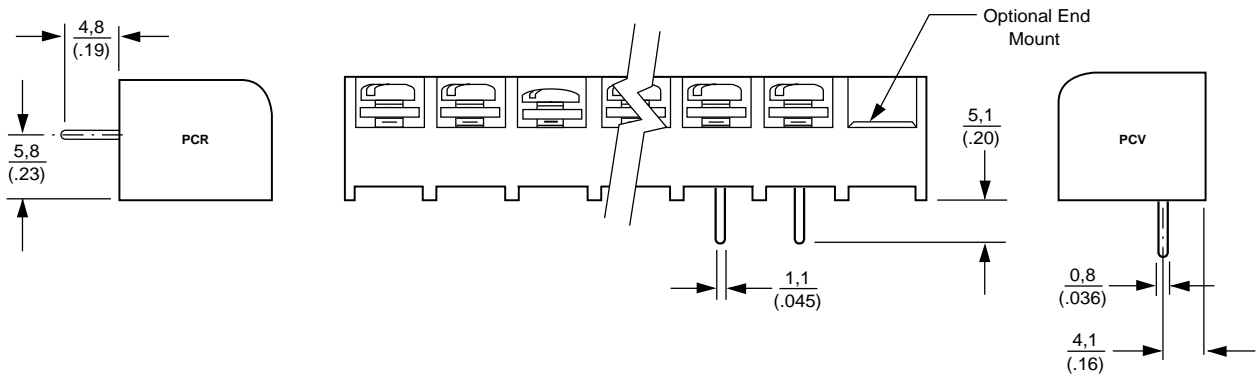
Phil-slot Head

Slotted Head

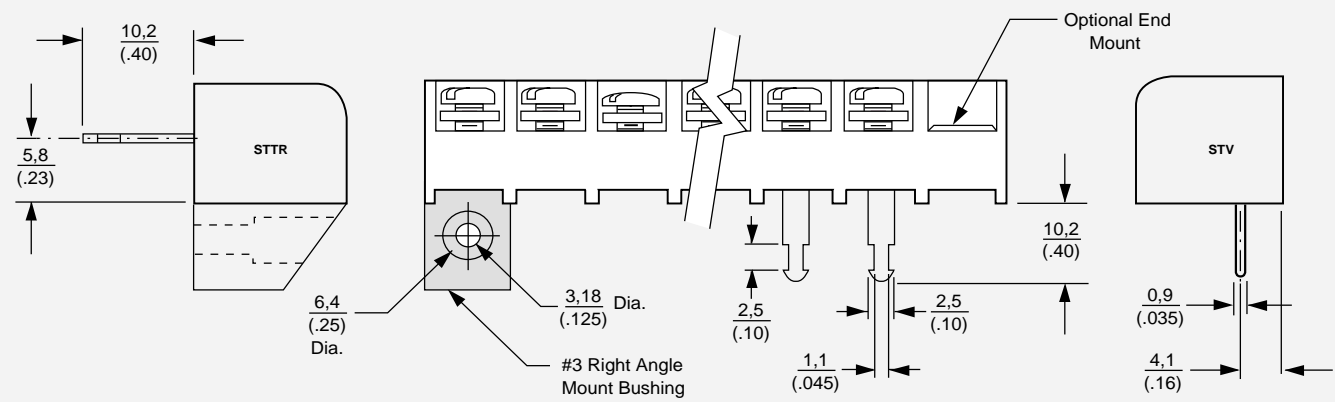
| Terminal Style | Modifier Slotted Head | Modifier Phil-slot Head | Screw Style | Mounting Construction   |
|----------------|-----------------------|-------------------------|-------------|---|
| PCV            | 000                   | 006                     | Wire Clamp  | No Mounting   |
|    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

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Printed Circuit Pin

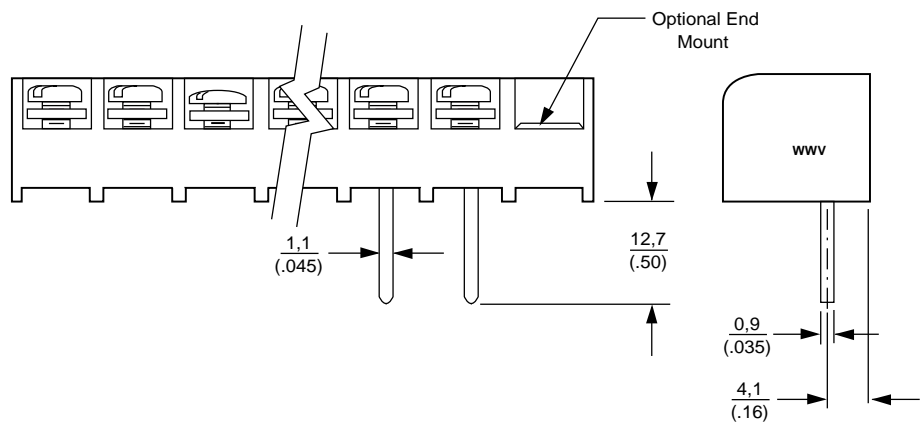


Solder Turret

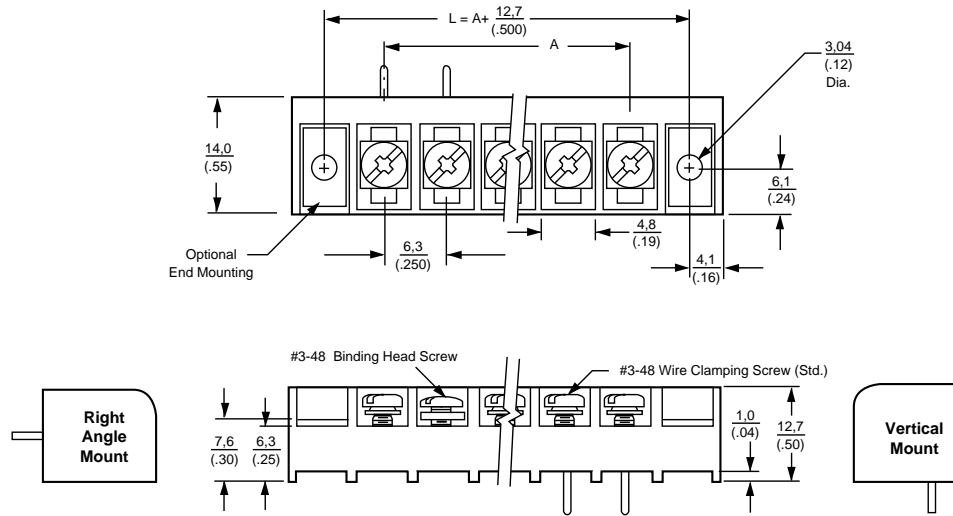


Wire Wrap

#3WWR not available



0.250" PITCH  
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| 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 |           |              |