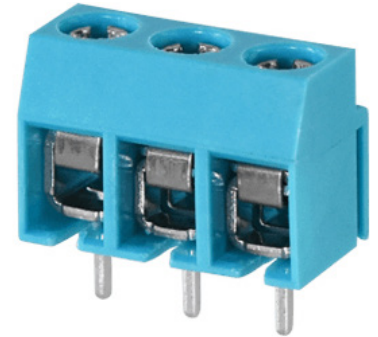


**SERIES:** TB003-500 | **DESCRIPTION:** TERMINAL BLOCK**FEATURES**

- 2~24 poles
- horizontal with board
- interlocking (side)
- 5.0 mm pitch
- UL and CE safety approvals

**SPECIFICATIONS**

| parameter                   | conditions/description                      | min | typ  | max  | units |
|-----------------------------|---------------------------------------------|-----|------|------|-------|
| rated voltage (per contact) | UL                                          |     |      | 300  | V     |
|                             | IEC                                         |     |      | 250  | V     |
| rated current (per contact) | UL                                          |     |      | 10   | A     |
|                             | IEC                                         |     |      | 18   | A     |
| withstanding voltage        |                                             |     | 2500 |      | Vac   |
| surge voltage               |                                             |     |      | 4000 | V     |
| contact resistance          |                                             |     |      | 20   | mΩ    |
| insulation resistance       | at 500 Vdc                                  | 500 |      |      | MΩ    |
| operating temperature       |                                             | -40 |      | 105  | °C    |
| safety approvals            | UL 1059, EN 60998-1:2004, EN 60998-2-1:2004 |     |      |      |       |
| flammability rating         | UL94V-0                                     |     |      |      |       |
| RoHS                        | yes                                         |     |      |      |       |

**SOLDERABILITY**

| parameter      | conditions/description | min | typ | max | units |
|----------------|------------------------|-----|-----|-----|-------|
| hand soldering | for maximum 10 seconds | 345 | 350 | 355 | °C    |
| wave soldering | for maximum 5 seconds  | 255 | 260 | 265 | °C    |

**PART NUMBER KEY****TB003-500 - X XX XX**

Base Number

Screw Type:  
"blank" = Slot  
P = Phillips

No. of Poles:

02 10 18  
03 11 19  
04 12 20  
05 13 21  
06 14 22  
07 15 23  
08 16 24  
09 17

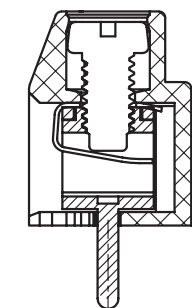
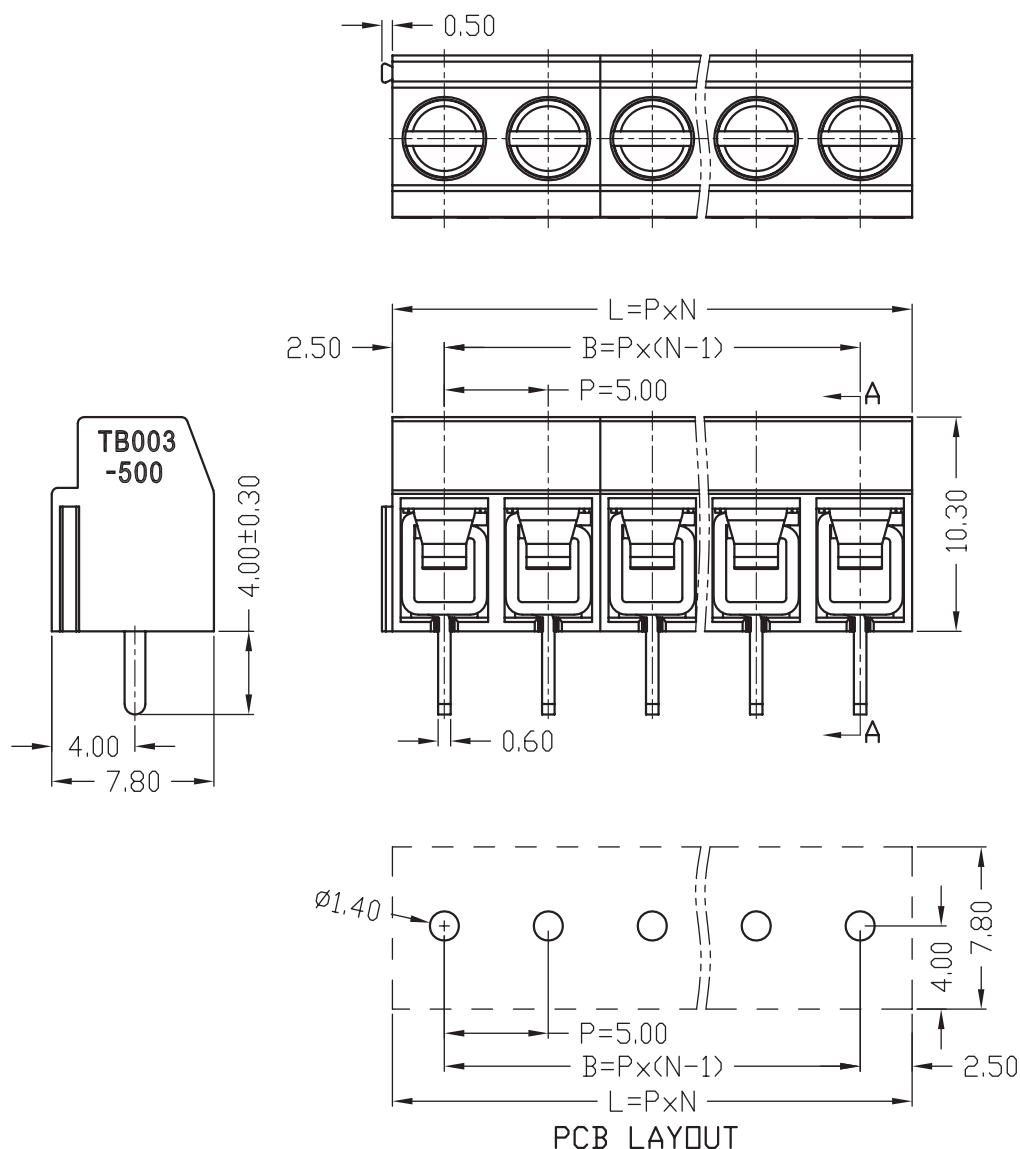
Color:

\*BE = blue  
GR = green  
OR = orange  
YL = yellow  
GY = gray  
BK = black

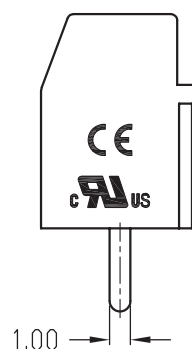
## MECHANICAL DRAWING

units: mm  
 tolerance (per module):  
 $X \leq 6.00$ :  $\pm 0.25$  mm  
 $6.00 < X \leq 30.00$ :  $\pm 0.40$  mm  
 unless otherwise noted

| DESCRIPTION | MATERIAL        | PLATING/COLOR |
|-------------|-----------------|---------------|
| housing     | PA66 [UL94V-0]  |               |
| contacts    | copper alloy    | tin           |
| screws      | steel           | zinc          |
| spring      | stainless steel |               |



SECTION A-A



| WIRE ASSEMBLY |           |                     |
|---------------|-----------|---------------------|
|               | UL        | IEC                 |
| Wire Range    | 26-14 AWG | 2.5 mm <sup>2</sup> |
| Strip Length  | 6-7 mm    |                     |
| Screw Size    | M2.5      |                     |
| Screw Torque  | 0.4 N·m   |                     |

This series can be constructed of 2 and 3 pole modules where L is the total length, P is the pitch, and N is the number of poles.

| N | 02    | 03    | 04    | 05    | 06    | 07    | 08     | 09     | 10     | 11     | 12     | 13    |
|---|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|-------|
| L | 10.00 | 15.00 | 20.00 | 25.00 | 30.00 | 35.00 | 40.00  | 45.00  | 50.00  | 55.00  | 60.00  | 65.00 |
| B | 5.00  | 10.00 | 15.00 | 20.00 | 25.00 | 30.00 | 35.00  | 40.00  | 45.00  | 50.00  | 55.00  | 60.00 |
| N | 14    | 15    | 16    | 17    | 18    | 19    | 20     | 21     | 22     | 23     | 24     | --    |
| L | 70.00 | 75.00 | 80.00 | 85.00 | 90.00 | 95.00 | 100.00 | 105.00 | 110.00 | 115.00 | 120.00 | --    |
| B | 65.00 | 70.00 | 75.00 | 80.00 | 85.00 | 90.00 | 95.00  | 100.00 | 105.00 | 110.00 | 115.00 | --    |

## REVISION HISTORY

| rev. | description                  | date       |
|------|------------------------------|------------|
| 1.0  | initial release              | 03/12/2019 |
| 1.01 | brand update                 | 02/06/2020 |
| 1.02 | updated datasheet            | 04/20/2020 |
| 1.03 | logo, datasheet style update | 08/15/2022 |

The revision history provided is for informational purposes only and is believed to be accurate.



CUI Devices offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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