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# SERIES: TB002V-500 | DESCRIPTION: TERMINAL BLOCK

## FEATURES

- 2~24 poles
- vertical 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<br>IEC | | | 300<br>250 | V<br>V |
| rated current (per contact) | UL<br>IEC | | | 15<br>17.5 | A<br>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

TB002V-500 - X XX XX

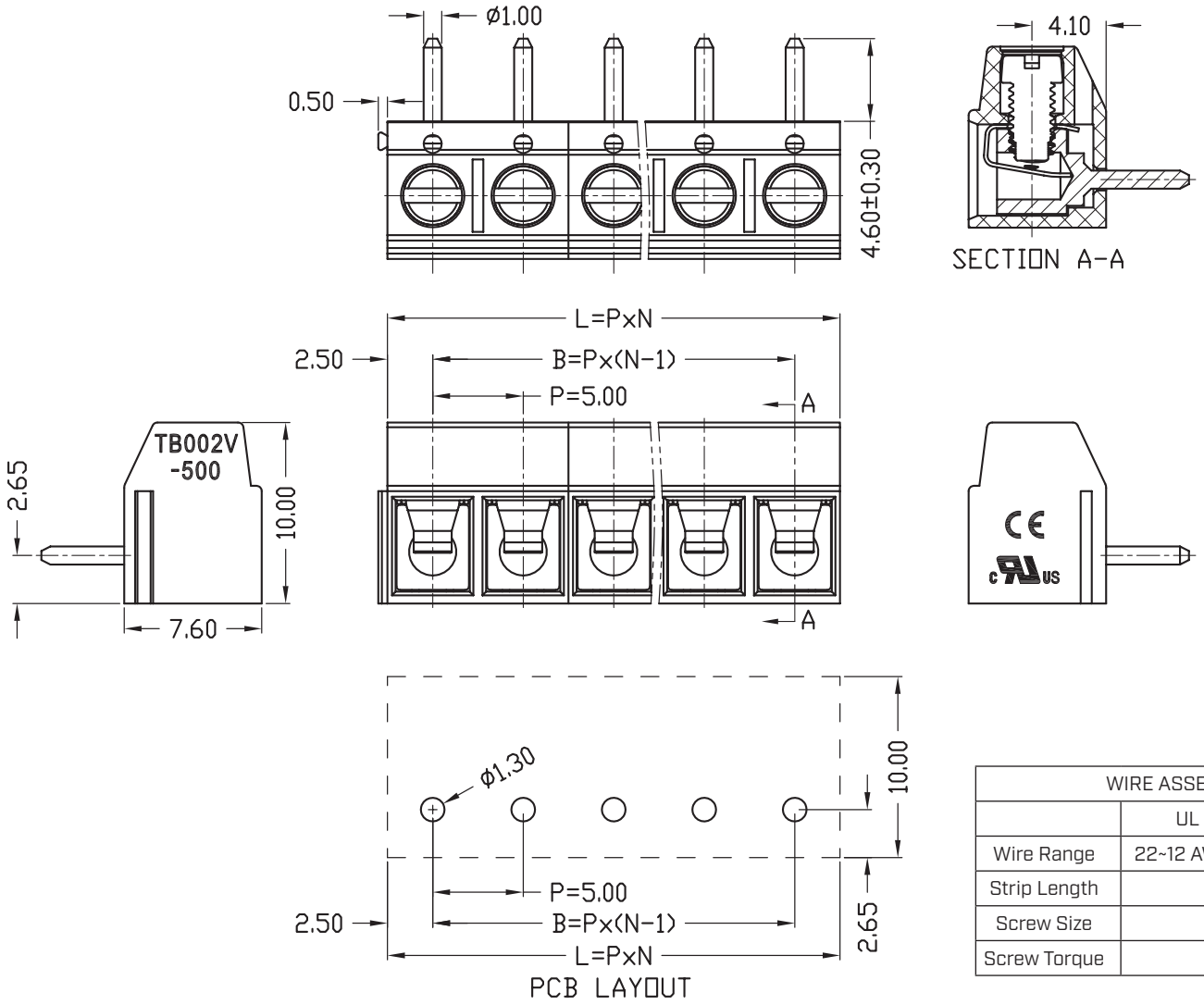
- Base Number
- Screw Type:
  “blank” = Slot
  P = Phillips
- No. of Poles:
  02 10 18
  03 11 19
  04 12 20
  05 13 21
  06 14 22
  07 15 23
  08 16 24
  09 17
- Color:
  *BE = blue
  GR = green
  OR = orange
  YL = yellow
  GY = gray
  BK = black

*Standard housing color is blue. All other colors are subject to higher MOQ. Please inquire with Same Sky sales for details.

## MECHANICAL DRAWING

units: mm
tolerance (per module):
X≤6.00: ±0.25 mm
6.00<X≤30.00: ±0.40 mm
unless otherwise noted

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




| WIRE ASSEMBLY | | |
|---|---|---|
| | UL | IEC |
| Wire Range | 22~12 AWG | 1.5 mm² |
| Strip Length | 5~6 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 | 03/14/2019 |
| 1.01 | brand update | 02/06/2020 |
| 1.02 | updated datasheet | 04/20/2020 |
| 1.03 | logo, datasheet style update | 08/15/2022 |
| 1.04 | CUI Devices rebranded to Same Sky | 09/12/2024 |

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

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

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Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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