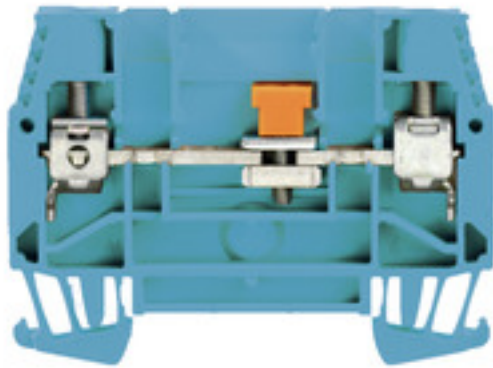


**WTL 6/1 BL****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image****Current and voltage transformer wiring**

Our test disconnect terminal blocks featuring spring and screw connection technology allow you to create all the important converter circuits for measuring current, voltage and power in a safe and sophisticated way.

**General ordering data**

|            |                                                                                            |
|------------|--------------------------------------------------------------------------------------------|
| Version    | Test-disconnect terminal, Screw connection, 6 mm <sup>2</sup> , 630 V, 41 A, sliding, blue |
| Order No.  | <a href="#">1016780000</a>                                                                 |
| Type       | WTL 6/1 BL                                                                                 |
| GTIN (EAN) | 4032248064137                                                                              |
| Qty.       | 50 pc(s).                                                                                  |

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## Technical data

## Dimensions and weights

|                          |            |                |            |
|--------------------------|------------|----------------|------------|
| Depth                    | 47.5 mm    | Depth (inches) | 1.87 inch  |
| Depth including DIN rail | 48.5 mm    | Height         | 65 mm      |
| Height (inches)          | 2.559 inch | Net weight     | 20.98 g    |
| Width                    | 7.9 mm     | Width (inches) | 0.311 inch |

## Temperatures

|                                  |                |                                  |        |
|----------------------------------|----------------|----------------------------------|--------|
| Storage temperature              | -25 °C...55 °C | Continuous operating temp., min. | -50 °C |
| Continuous operating temp., max. | 120 °C         |                                  |        |

## Material data

|                           |       |        |      |
|---------------------------|-------|--------|------|
| Material                  | Wemid | Colour | blue |
| UL 94 flammability rating | V-0   |        |      |

## System specifications

|                                     |                                                                                     |                               |     |
|-------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|-----|
| Version                             | Screw connection, Spacer, for screwable cross-connection, One end without connector | End cover plate required      | Yes |
| Number of potentials                | 1                                                                                   | Number of levels              | 1   |
| Number of clamping points per level | 2                                                                                   | Number of potentials per tier | 1   |
| Levels cross-connected internally   | No                                                                                  | PE connection                 | No  |
| Rail                                | TS 35                                                                               | N-function                    | Yes |
| PE function                         | No                                                                                  | PEN function                  | No  |

## 2 clampable conductors (H05V/H07V) with equal cross-section (rated connection)

|                                                                                                            |                     |                                                                                                            |                     |
|------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------------------|---------------------|
| Cross-section for connected wire, solid, two clampable wires, max.                                         | 2.5 mm <sup>2</sup> | Cross-section for connected wire, solid, two clampable wires, min.                                         | 0.5 mm <sup>2</sup> |
| Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, max. | 2.5 mm <sup>2</sup> | Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, min. | 0.5 mm <sup>2</sup> |
| Wire connection cross section, finely stranded, two clampable wires, min.                                  | 0.5 mm <sup>2</sup> | Wire cross-section, finely stranded, two clampable wires, max.                                             | 2.5 mm <sup>2</sup> |

## Additional technical data

|                          |       |                             |         |
|--------------------------|-------|-----------------------------|---------|
| Explosion-tested version | No    | Number of similar terminals | 1       |
| Open sides               | right | Type of mounting            | Snap-on |

## CSA rating data

|                               |                |                               |       |
|-------------------------------|----------------|-------------------------------|-------|
| Certificate No. (CSA)         | 200039-1057876 | Current size C (CSA)          | 45 A  |
| Current size D (CSA)          | 5 A            | Voltage size C (CSA)          | 300 V |
| Voltage size D (CSA)          | 600 V          | Wire cross section max. (CSA) | 8 AWG |
| Wire cross section min. (CSA) | 20 AWG         |                               |       |

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## Technical data

## Conductors for clamping (rated connection)

|                                                                                         |                     |                                                                                         |                     |
|-----------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------------|---------------------|
| Blade size                                                                              | 0.8 x 4.0 mm        | Clamping range, max.                                                                    | 10 mm <sup>2</sup>  |
| Clamping range, min.                                                                    | 0.5 mm <sup>2</sup> | Clamping screw                                                                          | M 3.5               |
| Connection cross-section, stranded, min.                                                | 1.5 mm <sup>2</sup> | Connection direction                                                                    | on side             |
| Gauge to IEC 60947-1                                                                    | A5                  | Number of connections                                                                   | 2                   |
| Stripping length                                                                        | 12 mm               | Tightening torque, max.                                                                 | 1.6 Nm              |
| Tightening torque, min.                                                                 | 1 Nm                | Torque level with DMS electric screwdriver                                              | 3                   |
| Type of connection                                                                      | Screw connection    | Wire connection cross section AWG, max.                                                 | AWG 8               |
| Wire connection cross section AWG, min.                                                 | AWG 20              | Wire connection cross section, finely stranded, max.                                    | 10 mm <sup>2</sup>  |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. | 6 mm <sup>2</sup>   | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 0.5 mm <sup>2</sup> |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 6 mm <sup>2</sup>   | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 0.5 mm <sup>2</sup> |
| Wire connection cross-section, solid core, max.                                         | 10 mm <sup>2</sup>  | Wire connection cross-section, solid core, min.                                         | 0.5 mm <sup>2</sup> |

## Dimensions

|              |         |
|--------------|---------|
| TS 35 offset | 32.5 mm |
|--------------|---------|

## General

|                                         |        |                                         |       |
|-----------------------------------------|--------|-----------------------------------------|-------|
| Rail                                    | TS 35  | Wire connection cross section AWG, max. | AWG 8 |
| Wire connection cross section AWG, min. | AWG 20 |                                         |       |

## Rating data

|                                             |        |                                              |                   |
|---------------------------------------------|--------|----------------------------------------------|-------------------|
| Power loss in accordance with IEC 60947-7-x | 1.31 W | Rated cross-section                          | 6 mm <sup>2</sup> |
| Rated voltage                               | 630 V  | Rated current                                | 41 A              |
| Current at maximum wires                    | 57 A   | Volume resistance according to IEC 60947-7-x | 0.78 mΩ           |
| Rated impulse withstand voltage             | 6 kV   | Pollution severity                           | 3                 |

## UL rating data

|                                         |        |                                         |        |
|-----------------------------------------|--------|-----------------------------------------|--------|
| Certificate No. (UR)                    | E60693 | Conductor size Factory wiring max. (UR) | 8 AWG  |
| Conductor size Factory wiring min. (UR) | 20 AWG | Conductor size Field wiring max. (UR)   | 8 AWG  |
| Conductor size Field wiring min. (UR)   | 20 AWG | Current size C (UR)                     | 45 A   |
| UL_current_Print                        | 45 A   | UL_voltage_Print                        | 300 V  |
| UL_wire_max_Print                       | 8 AWG  | UL_wire_min_Print                       | 20 AWG |
| Voltage size C (UR)                     | 300 V  |                                         |        |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC000902    | ETIM 7.0    | EC000902    |
| ECLASS 9.0  | 27-14-11-26 | ECLASS 9.1  | 27-14-11-26 |
| ECLASS 10.0 | 27-14-11-26 | ECLASS 11.0 | 27-14-11-26 |

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## Technical data

### Approvals

Approvals



|                       |         |
|-----------------------|---------|
| ROHS                  | Conform |
| UL File Number Search | E60693  |

### Downloads

|                                             |                                                                                                          |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">CB Test Certificate</a><br><a href="#">CB Certificate</a><br><a href="#">EAC certificate</a> |
| Engineering Data                            | <a href="#">STEP</a>                                                                                     |
| Engineering Data                            | <a href="#">EPLAN, WSCAD, Zuken E3.S</a>                                                                 |
| User Documentation                          | <a href="#">StorageConditionsTerminalBlocks</a>                                                          |