

**WDU 6 BL****Weidmüller Interfaces GmbH & Co. KG**

Postfach 3030

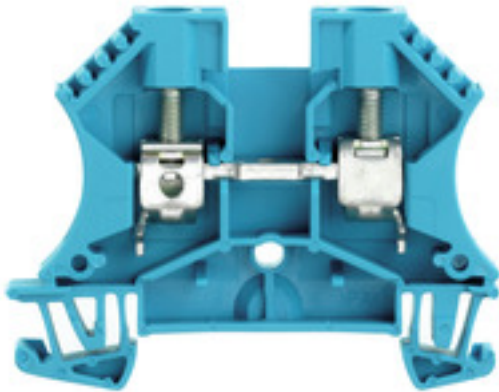
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**Product image**

To feed through power, signal, and data is the classical requirement in electrical engineering and panel building. The insulating material, the connection system and the design of the terminal blocks are the differentiating features. A feed-through terminal block is suitable for joining and/or connecting one or more conductors. They could have one or more connection levels that are on the same potential or insulated against one another.

**General ordering data**

|            |  |
|------------|--|
| Version    | Feed-through terminal, Screw connection, 6 mm <sup>2</sup> , 800 V, 41 A, blue |
| Order No.  | <a href="#">1020280000</a>   |
| Type       | WDU 6 BL   |
| GTIN (EAN) | 4008190100032  |
| Qty.       | 100 pc(s).   |

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## Technical data

## Dimensions and weights

|                          |            |                |            |
|--------------------------|------------|----------------|------------|
| Depth                    | 46.5 mm    | Depth (inches) | 1.831 inch |
| Depth including DIN rail | 47 mm      | Height         | 60 mm      |
| Height (inches)          | 2.362 inch | Width          | 7.9 mm     |
| Width (inches)           | 0.311 inch | Net weight     | 12.83 g    |

## Temperatures

|                                  |                |                                  |   |
|----------------------------------|----------------|----------------------------------|---|
| Storage temperature              |                | Operating temperature range      | For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity |
|                                  | -25 °C...55 °C |                                  |   |
| Continuous operating temp., min. | -60 °C         | Continuous operating temp., max. | 130 °C  |

## Material data

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

## Rating data IECEx/ATEX

|                                |   |                                 |                   |
|--------------------------------|---|---------------------------------|-------------------|
| Certificate No. (ATEX)         | DEMKO14ATEX1338U  | Certificate No. (IECEX)         | IECEXULD14.0005U  |
| Max. voltage (ATEX)            | 690 V   | Current (ATEX)                  | 41 A              |
| Wire cross section max. (ATEX) | 6 mm <sup>2</sup>   | Max. voltage (IECEX)            | 690 V             |
| Current (IECEX)                | 41 A  | Wire cross section max. (IECEX) | 6 mm <sup>2</sup> |
| Operating temperature range    | For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity | Marking EN 60079-7              |                   |
| Ex 2014/34/EU label            | II 2 G D  |                                 | Ex eb II C Gb     |

## System specifications

|                                     |   |                               |     |
|-------------------------------------|---|-------------------------------|-----|
| Version                             | Screw connection, 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)

|  |                     |  |                     |
|--|---------------------|--|---------------------|
| 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 | Yes   | Number of similar terminals | 1       |
| Open sides               | right | Type of mounting            | Snap-on |

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**Technical data**

**CSA rating data**

|                               |                |                               |                          |
|-------------------------------|----------------|-------------------------------|--------------------------|
| Certificate No. (CSA)         | 200039-1057876 | Current size C (CSA)          | www.weidmueller.com 50 A |
| Voltage size C (CSA)          | 600 V          | Wire cross section max. (CSA) | 8 AWG                    |
| Wire cross section min. (CSA) | 22 AWG         |                               |                          |

**Conductors for clamping (rated connection)**

|  |  |                     |                       |        |
|--|--|---------------------|-----------------------|--------|
| Blade size                               | 0.8 x 4.0 mm                           |                     |                       |        |
| Clampable conductor                      | Connection specification               | Screw connection    |                       |        |
|  | Cross-section for conductor connection | Type                | solid, H05(07) V-U    |        |
|  |  | min.                | 0.5 mm <sup>2</sup>   |        |
|  |  | max.                | 10 mm <sup>2</sup>    |        |
|  |  | nominal             | 6 mm <sup>2</sup>     |        |
|  | wire end ferrule                       | Stripping length    | min.                  | 12 mm  |
|  |  |                     | max.                  | 12 mm  |
|  |  |                     | nominal               | 12 mm  |
|  |  | Tightening torque   | min.                  | 0.8 Nm |
|  |  |                     | max.                  | 1.6 Nm |
|  | Recommended wire-end ferrule           |                     |                       |        |
|  | Connection specification               | Screw connection    |                       |        |
|  | Cross-section for conductor connection | Type                | stranded, H07V-R      |        |
|  |  | min.                | 1.5 mm <sup>2</sup>   |        |
|  |  | max.                | 10 mm <sup>2</sup>    |        |
|  |  | nominal             | 6 mm <sup>2</sup>     |        |
|  | wire end ferrule                       | Stripping length    | min.                  | 12 mm  |
|  |  |                     | max.                  | 12 mm  |
|  |  |                     | nominal               | 12 mm  |
|  |  | Tightening torque   | min.                  | 0.8 Nm |
|  |  |                     | max.                  | 1.6 Nm |
|  | Recommended wire-end ferrule           |                     |                       |        |
|  | Connection specification               | Screw connection    |                       |        |
|  | Cross-section for conductor connection | Type                | flexible, H05(07) V-K |        |
| min.                                     |  | 0.5 mm <sup>2</sup> |                       |        |
| max.                                     |  | 10 mm <sup>2</sup>  |                       |        |
| nominal                                  |  | 6 mm <sup>2</sup>   |                       |        |
| wire end ferrule                         | Stripping length                       | min.                | 12 mm                 |        |
|  |  | max.                | 12 mm                 |        |
|  |  | nominal             | 12 mm                 |        |
|  | Tightening torque                      | min.                | 0.8 Nm                |        |
|  |  | max.                | 1.6 Nm                |        |
| Recommended wire-end ferrule             |  |                     |                       |        |
| Clamping range, max.                     | 10 mm <sup>2</sup>                     |                     |                       |        |
| Clamping range, min.                     | 0.22 mm <sup>2</sup>                   |                     |                       |        |
| Clamping screw                           | M 3.5                                  |                     |                       |        |
| Connection cross-section, stranded, max. | 10 mm <sup>2</sup>                     |                     |                       |        |
| 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.                  | 0.8 Nm                                 |                     |                       |        |

Creation date 05 July 2023 15:03:32 CEST

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## Technical data

|   |                     |  |  |
|---|---------------------|--|--|
| Torque level with DMS electric screwdriver  | 3                   |  |  |
| Twin wire-end ferrules, max.  | 4 mm <sup>2</sup>   |  |  |
| Twin wire-end ferrules, min.  | 0.5 mm <sup>2</sup> |  |  |
| Type of connection  | Screw connection    |  |  |
| Wire connection cross section AWG, max.   | AWG 8               |  |  |
| Wire connection cross section AWG, min.   | AWG 26              |  |  |
| Wire connection cross section, finely stranded, max.                                    | 10 mm <sup>2</sup>  |  |  |
| Wire connection cross section, finely stranded, min.                                    | 0.5 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> |  |  |

## General

|   |       |   |               |
|---|-------|---|---------------|
| Rail                                    | TS 35 | Standards                               | IEC 60947-7-1 |
| Wire connection cross section AWG, max. | AWG 8 | Wire connection cross section AWG, min. | AWG 26        |

## Rating data

|                                 |                   |  |         |
|---------------------------------|-------------------|--|---------|
| Rated cross-section             | 6 mm <sup>2</sup> | Rated voltage                                | 800 V   |
| Rated current                   | 41 A              | Current at maximum wires                     | 57 A    |
| Standards                       | IEC 60947-7-1     | Volume resistance according to IEC 60947-7-x | 0.78 mΩ |
| Rated impulse withstand voltage | 8 kV              | Power loss in accordance with IEC 60947-7-x  | 1.31 W  |
| Pollution severity              | 3                 |  |         |

## UL rating data

|   |        |   |       |
|---|--------|---|-------|
| Certificate No. (UR)                    | E60693 | Conductor size Factory wiring max. (UR) | 8 AWG |
| Conductor size Factory wiring min. (UR) | 22 AWG | Conductor size Field wiring max. (UR)   | 8 AWG |
| Conductor size Field wiring min. (UR)   | 22 AWG | Current size C (UR)                     | 50 A  |
| Voltage size C (UR)                     | 600 V  |   |       |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC000897    | ETIM 7.0    | EC000897    |
| ETIM 8.0    | EC000897    | ECLASS 9.0  | 27-14-11-20 |
| ECLASS 9.1  | 27-14-11-20 | ECLASS 10.0 | 27-14-11-20 |
| ECLASS 11.0 | 27-14-11-20 | ECLASS 12.0 | 27-14-11-20 |

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Catalogue status 24.06.2023 / We reserve the right to make technical changes.

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## Technical data

### Approvals

Approvals



|                           |            |
|---------------------------|------------|
| ROHS                      | Conform    |
| UL File Number Search     | UL Website |
| Certificate No. (UR)      | E60693     |
| Certificate No. (cURusEX) | E184763    |

### Downloads

|   |   |
|---|---|
| Approval/Certificate/Document of Conformity | <a href="#">Attestation of Conformity</a><br><a href="#">IECEX Certificate</a><br><a href="#">CB Testreport</a><br><a href="#">CB Certificate</a><br><a href="#">EAC certificate</a><br><a href="#">DNVGL certificate</a><br><a href="#">NEMKO certificate</a><br><a href="#">Lloyds Register Certificate</a><br><a href="#">MARITREG Certificate</a><br><a href="#">POLSKIREJ certificate</a><br><a href="#">EAC EX Certificate</a><br><a href="#">CCC Ex Certificate</a><br><a href="#">UKCA Ex Certificate</a><br><a href="#">CE Declaration of Conformity</a><br><a href="#">ATEX Certificate</a><br><a href="#">CE Declaration of Conformity all terminals</a><br><a href="#">UKCA declaration of conformity</a> |
| Engineering Data                            | <a href="#">CAD data – STEP</a>   |
| Engineering Data                            | <a href="#">WSCAD, Zuken E3.S, EPLAN</a>  |
| User Documentation                          | <a href="#">NTI WDU/WPE 6</a><br><a href="#">Usage of terminals in EXi atmospheres</a><br><a href="#">StorageConditionsTerminalBlocks</a>   |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>  |
| Brochures                                   |   |

**Data sheet**

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**Drawings**

