

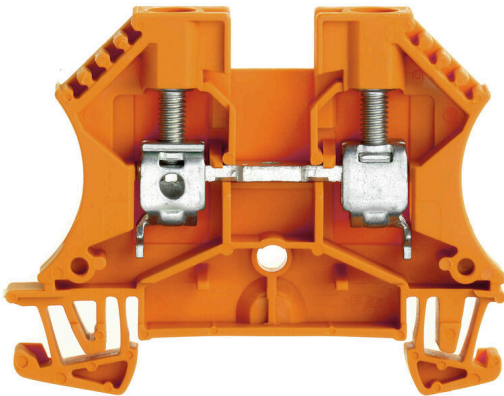
**WDU 6 OR****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**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 block, Screw connection, orange, 6 mm <sup>2</sup> , 41 A, 800 V, Number of connections: 2 |
| Order No.  | <a href="#">1020260000</a>   |
| Type       | WDU 6 OR   |
| GTIN (EAN) | 4008190861278  |
| Qty.       | 100 items  |

## WDU 6 OR

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## Technical data

### Approvals

Approvals



|                           |                            |
|---------------------------|----------------------------|
| ROHS                      | Conform                    |
| UL File Number Search     | <a href="#">UL Website</a> |
| Certificate No. (UR)      | E60693                     |
| Certificate No. (cURusEX) | E184763                    |

### Dimensions and weights

|                          |             |                |             |
|--------------------------|-------------|----------------|-------------|
| Depth                    | 46.5 mm     | Depth (inches) | 1.8307 inch |
| Depth including DIN rail | 47 mm       | Height         | 60 mm       |
| Height (inches)          | 2.3622 inch | Width          | 7.9 mm      |
| Width (inches)           | 0.311 inch  | Net weight     | 12.8 g      |

### Temperatures

|                                  |                |                                  |                |
|----------------------------------|----------------|----------------------------------|----------------|
| Storage temperature              | -25 °C...55 °C | Ambient temperature              | -60 °C...85 °C |
| Continuous operating temp., min. | -60 °C         | Continuous operating temp., max. | 130 °C         |

### Environmental Product Compliance

|                          |                             |                  |  |
|--------------------------|-----------------------------|------------------|--|
| RoHS Compliance Status   | Compliant without exemption |                  |  |
| REACH SVHC               | No SVHC above 0.1 wt%       |                  |  |
| Product Carbon Footprint | Cradle to gate              | 0,117 kg CO2 eq. |  |

### Material data

|                           |       |        |        |
|---------------------------|-------|--------|--------|
| Basic material            | Wemid | Colour | orange |
| 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) | 10 mm <sup>2</sup> | Max. voltage (IECEX)            | 690 V              |
| Current (IECEX)                | 41 A               | Wire cross section max. (IECEX) | 10 mm <sup>2</sup> |
| Marking EN 60079-7             | Ex eb II C Gb      | Ex 2014/34/EU label             | II 2 G D           |

### 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   |

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|-------------------------------------|-------|-------------------------------|----|
| Number of clamping points per level | 2     | Number of potentials per tier | 1  |
| Levels cross-connected internally   | No    | PE connection                 | No |
| Mounting rail                       | TS 35 | N-function                    | No |
| 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 cross-section, finely stranded, two clampable wires, max.   | 2.5 mm <sup>2</sup> | Wire connection cross section, finely stranded, two clampable wires, min.                                  | 0.5 mm <sup>2</sup> |

### Additional technical data

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

### CSA rating data

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

### Conductors for clamping (additional connection)

Connection type, additional connection Screw connection

### Conductors for clamping (rated connection)

|   |                      |
|---|----------------------|
| Gauge to IEC 60947-1  | A5                   |
| Wire connection cross section AWG, max.   | AWG 8                |
| Connection direction  | on side              |
| Tightening torque, max.   | 1.6 Nm               |
| Tightening torque, min.   | 0.8 Nm               |
| Stripping length  | 12 mm                |
| Type of connection  | Screw connection     |
| Number of connections   | 2                    |
| Clamping range, max.  | 10 mm <sup>2</sup>   |
| Clamping range, min.  | 0.22 mm <sup>2</sup> |
| Clamping screw  | M 3.5                |
| Blade size  | 0.8 x 4.0 mm         |
| Wire connection cross section AWG, min.   | AWG 26               |
| 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. | 0.22 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. | 0.22 mm <sup>2</sup> |
| Wire connection cross section, finely stranded, max.                                    | 10 mm <sup>2</sup>   |

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|  |  |                          |                       |                  |
|--|--|--------------------------|-----------------------|------------------|
| Wire connection cross section, finely stranded, min. | 0.22 mm <sup>2</sup>                   |                          |                       |                  |
| Connection cross-section, stranded, max.             | 10 mm <sup>2</sup>                     |                          |                       |                  |
| Connection cross-section, stranded, min.             | 0.22 mm <sup>2</sup>                   |                          |                       |                  |
| Twin wire-end ferrules, max.                         | 4 mm <sup>2</sup>                      |                          |                       |                  |
| Twin wire-end ferrules, min.                         | 0.5 mm <sup>2</sup>                    |                          |                       |                  |
| Torque level with DMS electric screwdriver           | 3                                      |                          |                       |                  |
| Wire connection cross-section, solid core, max.      | 10 mm <sup>2</sup>                     |                          |                       |                  |
| Wire connection cross-section, solid core, min.      | 0.22 mm <sup>2</sup>                   |                          |                       |                  |
| Connection cross-section, finely stranded, min.      | 0.22 mm <sup>2</sup>                   |                          |                       |                  |
| 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           |
|  |  | 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           |
|  |  | 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                |                  |

### General

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

### Rating data

|  |                   |                                 |               |
|--|-------------------|---------------------------------|---------------|
| Rated cross-section                          | 6 mm <sup>2</sup> | Rated voltage                   | 800 V         |
| Rated DC voltage                             | 800 V             | Nominal 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          |

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**Technical data**

|   |        |                    |   |
|---|--------|--------------------|---|
| Power loss in accordance with IEC 60947-7-x | 1.31 W | Pollution severity | 3 |
|---|--------|--------------------|---|

**UL rating data**

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

**Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 8.0    | EC000897    | ETIM 9.0    | EC000897    |
| ETIM 10.0   | EC000897    | ECLASS 14.0 | 27-25-01-01 |
| ECLASS 15.0 | 27-25-01-01 |             |             |

**Drawings**

