

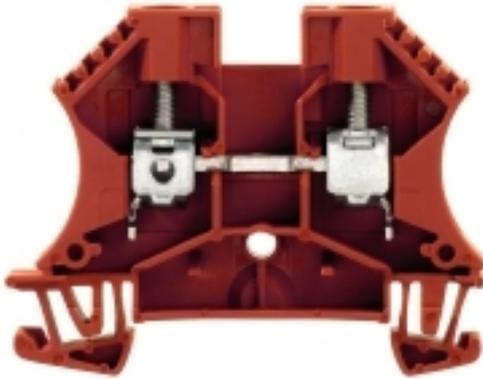
**WDU 6 RT****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Product image****Klippon® Connect with clamping yoke Technology**

The high reliability and variety of designs of the terminal blocks with clamping yoke connections make planning easier and optimises operational safety. Klippon® Connect provides a proven response to a range of different requirements.

**General ordering data**

|            |   |
|------------|---|
| Version    | Feed-through terminal, Screw connection, 6 mm <sup>2</sup> , 800 V, 41 A, red |
| Order No.  | <a href="#">1020240000</a>  |
| Type       | WDU 6 RT  |
| GTIN (EAN) | 4008 19086 1285   |
| 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 | Net weight     | 12.81 g    |
| Weight                   | 14.8 g     | Width          | 7.9 mm     |
| Width (inches)           | 0.311 inch |                |            |

### 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 | red |
| 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 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   |
| 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                    | 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 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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### CSA rating data

|                               |                |                               |       |
|-------------------------------|----------------|-------------------------------|-------|
| Certificate No. (CSA)         | 200039-1057876 | Current size C (CSA)          | 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                                 |                     |                       |        |

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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 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

|  |         |                                 |                   |
|--|---------|---------------------------------|-------------------|
| Power loss in accordance with IEC 60947-7-x  | 1.31 W  | 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              |
| 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   |
| UL_current_Print                        | 50 A   | UL_voltage_Print                        | 600 V  |
| UL_wire_max_Print                       | 8 AWG  | UL_wire_min_Print                       | 22 AWG |
| Voltage size C (UR)                     | 600 V  |   |        |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC000897    | ETIM 7.0    | 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 |

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4

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**Technical data**

**Approvals**

Approvals



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

**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="#">INMETRO 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="#">Declaration of Conformity</a><br><a href="#">ATEX Certificate</a><br><a href="#">Declaration of Conformity</a> |
| Engineering Data                            | <a href="#">STEP</a>  |
| Engineering Data                            | <a href="#">EPLAN, WSCAD, Zuken E3.S</a>  |
| User Documentation                          | <a href="#">NTI WDU/WPE 6</a><br><a href="#">StorageConditionsTerminalBlocks</a>  |

**Data sheet**

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**Drawings**

