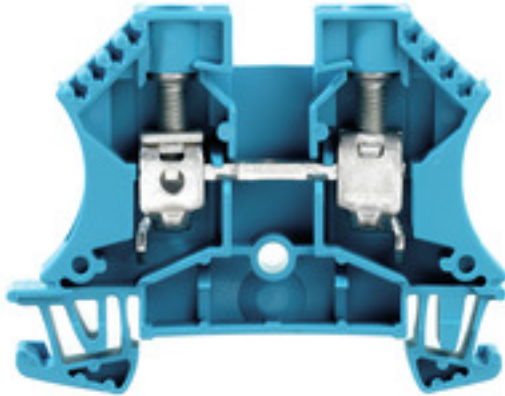


**WDU 10 BL****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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, 10 mm <sup>2</sup> , 1000 V, 57 A, blue |
| Order No.  | <a href="#">1020380000</a>                                                       |
| Type       | WDU 10 BL                                                                        |
| GTIN (EAN) | 4008190166359                                                                    |
| Qty.       | 50 pc(s).                                                                        |

## WDU 10 BL

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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     | 17.06 g    |
| Weight                   | 19.16 g    | Width          | 9.9 mm     |
| Width (inches)           | 0.39 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 | 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)                  | 57 A               |
| Wire cross section max. (ATEX) | 10 mm <sup>2</sup>                                                                                | Max. voltage (IECEX)            | 690 V              |
| Current (IECEX)                | 57 A                                                                                              | Wire cross section max. (IECEX) | 10 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                    | 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.                                         | 6 mm <sup>2</sup>   | Cross-section for connected wire, solid, two clampable wires, min.                                         | 0.5 mm <sup>2</sup> |
| Cross-section for connected wire, stranded, two clampable wires, max.                                      | 6 mm <sup>2</sup>   | Cross-section for connected wire, stranded, 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. | 6 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.                                             | 6 mm <sup>2</sup>   |

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## Technical data

## Additional technical data

|                          |       |                             |         |
|--------------------------|-------|-----------------------------|---------|
| Explosion-tested version | Yes   | 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)          | 65 A  |
| Voltage size C (CSA)          | 600 V          | Wire cross section max. (CSA) | 6 AWG |
| Wire cross section min. (CSA) | 18 AWG         |                               |       |

## Conductors for clamping (rated connection)

|                                          |                                        |                              |                       |        |
|------------------------------------------|----------------------------------------|------------------------------|-----------------------|--------|
| Blade size                               | 1.0 x 5.5 mm                           |                              |                       |        |
| Clampable conductor                      | Connection specification               | Screw connection             |                       |        |
|                                          | Cross-section for conductor connection | Type                         | solid, H05(07) V-U    |        |
|                                          |                                        | min.                         | 1.5 mm <sup>2</sup>   |        |
|                                          |                                        | max.                         | 16 mm <sup>2</sup>    |        |
|                                          |                                        | nominal                      | 10 mm <sup>2</sup>    |        |
|                                          | wire end ferrule                       | Stripping length             | min.                  | 12 mm  |
|                                          |                                        |                              | max.                  | 12 mm  |
|                                          |                                        |                              | nominal               | 12 mm  |
|                                          |                                        | Tightening torque            | min.                  | 1.2 Nm |
|                                          |                                        |                              | max.                  | 1.9 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.                         | 16 mm <sup>2</sup>    |        |
|                                          |                                        | nominal                      | 10 mm <sup>2</sup>    |        |
|                                          | wire end ferrule                       | Stripping length             | min.                  | 12 mm  |
|                                          |                                        |                              | max.                  | 12 mm  |
|                                          |                                        |                              | nominal               | 12 mm  |
|                                          |                                        | Tightening torque            | min.                  | 1.2 Nm |
|                                          |                                        |                              | max.                  | 1.9 Nm |
|                                          |                                        | Recommended wire-end ferrule |                       |        |
|                                          | Connection specification               | Screw connection             |                       |        |
|                                          | Cross-section for conductor connection | Type                         | flexible, H05(07) V-K |        |
|                                          |                                        | min.                         | 1.5 mm <sup>2</sup>   |        |
|                                          |                                        | max.                         | 16 mm <sup>2</sup>    |        |
|                                          |                                        | nominal                      | 10 mm <sup>2</sup>    |        |
| wire end ferrule                         | Stripping length                       | min.                         | 12 mm                 |        |
|                                          |                                        | max.                         | 12 mm                 |        |
|                                          |                                        | nominal                      | 12 mm                 |        |
|                                          | Tightening torque                      | min.                         | 1.2 Nm                |        |
|                                          |                                        | max.                         | 1.9 Nm                |        |
|                                          | Recommended wire-end ferrule           |                              |                       |        |
| Clamping range, max.                     | 16 mm <sup>2</sup>                     |                              |                       |        |
| Clamping range, min.                     | 1.31 mm <sup>2</sup>                   |                              |                       |        |
| Clamping screw                           | M 4                                    |                              |                       |        |
| Connection cross-section, stranded, max. | 16 mm <sup>2</sup>                     |                              |                       |        |
| Connection direction                     | on side                                |                              |                       |        |
| Gauge to IEC 60947-1                     | B6                                     |                              |                       |        |

Creation date March 22, 2021 2:47:59 PM CET

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## Technical data

|                                                                                         |                     |
|-----------------------------------------------------------------------------------------|---------------------|
| Number of connections                                                                   | 2                   |
| Stripping length                                                                        | 12 mm               |
| Tightening torque, max.                                                                 | 1.9 Nm              |
| Tightening torque, min.                                                                 | 1.2 Nm              |
| Torque level with DMS electric screwdriver                                              | 4                   |
| Twin wire-end ferrules, max.                                                            | 6 mm <sup>2</sup>   |
| Twin wire-end ferrules, min.                                                            | 1.5 mm <sup>2</sup> |
| Type of connection                                                                      | Screw connection    |
| Wire connection cross section AWG, max.                                                 | AWG 6               |
| Wire connection cross section AWG, min.                                                 | AWG 16              |
| Wire connection cross section, finely stranded, max.                                    | 16 mm <sup>2</sup>  |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. | 16 mm <sup>2</sup>  |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 1.5 mm <sup>2</sup> |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 16 mm <sup>2</sup>  |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 1.5 mm <sup>2</sup> |
| Wire connection cross-section, solid core, max.                                         | 16 mm <sup>2</sup>  |
| Wire connection cross-section, solid core, min.                                         | 1.5 mm <sup>2</sup> |

## General

|                                         |       |                                         |               |
|-----------------------------------------|-------|-----------------------------------------|---------------|
| Rail                                    | TS 35 | Standards                               | IEC 60947-7-1 |
| Wire connection cross section AWG, max. | AWG 6 | Wire connection cross section AWG, min. | AWG 16        |

## Rating data

|                                              |         |                                 |                    |
|----------------------------------------------|---------|---------------------------------|--------------------|
| Power loss in accordance with IEC 60947-7-x  | 1.82 W  | Rated cross-section             | 10 mm <sup>2</sup> |
| Rated voltage                                | 1,000 V | Rated current                   | 57 A               |
| Current at maximum wires                     | 76 A    | Standards                       | IEC 60947-7-1      |
| Volume resistance according to IEC 60947-7-x | 0.56 mΩ | Rated impulse withstand voltage | 8 kV               |
| Pollution severity                           | 3       |                                 |                    |

## UL rating data

|                                         |        |                                         |        |
|-----------------------------------------|--------|-----------------------------------------|--------|
| Certificate No. (UR)                    | E60693 | Conductor size Factory wiring max. (UR) | 6 AWG  |
| Conductor size Factory wiring min. (UR) | 18 AWG | Conductor size Field wiring max. (UR)   | 6 AWG  |
| Conductor size Field wiring min. (UR)   | 18 AWG | Current size C (UR)                     | 65 A   |
| UL_current_Print                        | 65 A   | UL_voltage_Print                        | 600 V  |
| UL_wire_max_Print                       | 6 AWG  | UL_wire_min_Print                       | 18 AWG |
| Voltage size C (UR)                     | 600 V  |                                         |        |

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## Technical data

## 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 |

## 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 IECEX WDU-WPE 10.pdf</a><br><a href="#">Usage of terminals in EXi atmospheres</a><br><a href="#">StorageConditionsTerminalBlocks</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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## Drawings

