

W-Series
WDU 1.5/ZZ BL

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
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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

| | |
|------------|--|
| Type | WDU 1.5/ZZ BL |
| Order No. | 1031480000 |
| Version | Feed-through terminal, Screw connection, 1.5 mm ² , 800 V, 17.5 A, Blue |
| GTIN (EAN) | 4008190151157 |
| Qty. | 100 pc(s). |

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Technical data
Dimensions and weights

| | | | |
|--------|---------|-----------------|------------|
| Width | 5.1 mm | Width (inches) | 0.201 inch |
| Height | 60 mm | Height (inches) | 2.362 inch |
| Depth | 46.5 mm | Depth (inches) | 1.831 inch |
| Weight | 8.75 g | Net weight | 8.1 g |

Temperatures

| | | | |
|----------------------------------|--------|----------------------------------|--------|
| 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) | 440 V | Current (ATEX) | 17.5 A |
| Wire cross section max. (ATEX) | 2.5 mm ² | Max. voltage (IECEX) | 440 V |
| Current (IECEX) | 17.5 A | Wire cross section max. (IECEX) | 2.5 mm ² |
| Operating temperature range | For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity | Marking EN 60079-7 | Ex e II |
| Ex 2014/34/EU label | II 2 G D | | |

System specifications

| | | | |
|-------------------------------|---|--|--------------|
| Version | Screw connection, Twin connection, for plug-in cross-connector, One end without connector | Tightening torque (clamping screw for copper conductors) | 0.4...0.6 Nm |
| End cover plate required | Yes | Number of potentials | 1 |
| Number of levels | 1 | No. of clamping points per level | 4 |
| Number of potentials per tier | 1 | Levels cross-connected internally | No |
| PE connection | No | Mounting 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, min. | 0.5 mm ² | Cross-section for connected wire, solid, two clampable wires, max. | 2.5 mm ² |
| Wire connection cross section, finely stranded, two clampable wires, min. | 0.5 mm ² | Wire cross-section, finely stranded, two clampable wires, max. | 1 mm ² |
| Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, min. | 0.5 mm ² | Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, max. | 0.75 mm ² |

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) | 10 A |
| Voltage size C (CSA) | 300 V | Wire cross section max. (CSA) | 12 AWG |
| Wire cross section min. (CSA) | 26 AWG | | |

Conductors for clamping (rated connection)

| | | | |
|---|----------------------|---|---------------------|
| Blade size | 0.6 x 3.5 mm | Clamping range, rated connection, max. | 2.5 mm ² |
| Clamping range, rated connection, min. | 0.13 mm ² | Clamping screw | M 2.5 |
| Connection direction | | Cross-section for connected conductor, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, min. | 0.5 mm ² |
| | on side | Number of connections | 4 |
| Gauge to IEC 60947-1 | A1 | Tightening torque, max. | 0.6 Nm |
| Stripping length | 7 mm | Torque level with DMS electric screwdriver | 1 |
| Tightening torque, min. | 0.4 Nm | Wire connection cross section AWG, max. | AWG 14 |
| Type of connection | Screw connection | Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, max. | 1.5 mm ² |
| Wire connection cross section AWG, min. | AWG 26 | Wire connection cross section, finely stranded, max. | 1.5 mm ² |
| Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, min. | 0.5 mm ² | Wire connection cross section, solid core, min. rated connection | 0.5 mm ² |
| Wire connection cross section, solid core max. rated connection | 2.5 mm ² | Wire connection cross section, stranded, rated connection, min. | 0.5 mm ² |
| Wire connection cross section, stranded, rated connection, max. | 2.5 mm ² | Wire connection cross-section, finely stranded, min. | 0.5 mm ² |
| Wire connection cross-section, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, max. | 1.5 mm ² | | |

Rating data

| | | | |
|---------------------------------|---------------------|--|---------|
| Rated cross-section | 1.5 mm ² | Rated voltage | 800 V |
| Rated current | 17.5 A | Current at maximum wires | 23 A |
| Standards | IEC 60947-7-1 | Volume resistance according to IEC 60947-7-x | 1.83 mΩ |
| Rated impulse withstand voltage | 8 kV | Pollution severity | 3 |

UL rating data

| | | | |
|---|--------|---|--------|
| Certificate No. (UR) | E60693 | Conductor size Factory wiring max. (UR) | 12 AWG |
| Conductor size Factory wiring min. (UR) | 26 AWG | Conductor size Field wiring max. (UR) | 12 AWG |
| Conductor size Field wiring min. (UR) | 22 AWG | Current size C (UR) | 25 A |
| Voltage size C (UR) | 300 V | | |

Classifications

| | | | |
|------------|-------------|------------|-------------|
| ETIM 3.0 | EC000897 | ETIM 4.0 | EC000897 |
| ETIM 5.0 | EC000897 | ETIM 6.0 | EC000897 |
| UNSPSC | 30-21-18-11 | eClass 5.1 | 27-14-11-20 |
| eClass 6.2 | 27-14-11-20 | eClass 7.1 | 27-14-11-20 |
| eClass 8.1 | 27-14-11-20 | eClass 9.0 | 27-14-11-20 |
| eClass 9.1 | 27-14-11-20 | | |

Data sheet

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Technical data

Product information

| | |
|---------------------------------|--|
| Descriptive text technical data | Note the max. current of the terminal (23 A) when using the WQV cross-connector! |
| Descriptive text accessories | Cross-connections, socket and test plug, see section "W series accessories". |

Approvals

Approvals



| | |
|------|---------|
| ROHS | Conform |
|------|---------|

Downloads

| | |
|---|--|
| Approval/Certificate/Document of Conformity | CFAT_WDU 1.5_ZZ.pdf IECEXULD14.0005U_e.pdf CFAT_EX i_all products DE_PT1001_20160414_115_ISSUE01.pdf ACF-ATEX_4786180920 |
| Brochure/Catalogue | CAT 1 TERM 16/17 EN |
| Engineering Data | EPLAN, WSCAD, Zuken E3.S |
| User Documentation | NTI_IECEX_WDU-WPE 1.5_ZZ.pdf |

Safety note

| | |
|---------------|------------------------------------|
| Safety notice | Safety Information |
|---------------|------------------------------------|

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Drawings

