

**W-Series
WDU 4 BL**

Weidmüller Interface GmbH & Co. KG
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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 4 BL |
| Order No. | 1020180000 |
| Version | Feed-through terminal, Screw connection, 4 mm ² , 800 V, 32 A, Blue |
| GTIN (EAN) | 4008190185237 |
| Qty. | 100 pc(s). |

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Technical data**Dimensions and weights**

| | | | |
|--------------------------|---------|-----------------|------------|
| Width | 6.1 mm | Width (inches) | 0.24 inch |
| Height | 60 mm | Height (inches) | 2.362 inch |
| Depth | 46.5 mm | Depth (inches) | 1.831 inch |
| Depth including DIN rail | 47 mm | Weight | 10.4 g |
| Net weight | 9.42 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) | 690 V | Current (ATEX) | 32 A |
| Wire cross section max. (ATEX) | 4 mm ² | Max. voltage (IECEX) | 690 V |
| Current (IECEX) | 32 A | Wire cross section max. (IECEX) | 4 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, for plug-in cross-connector, for screwable cross-connection, One end without connector | End cover plate required | Yes |
| Number of potentials | 1 | Number of levels | 1 |
| No. 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 | Yes |
| PE function | No | PEN function | No |

2 clampable conductors (H05V/H07V) with equal cross-section (rated connection)

| | | | |
|--|---------------------|--|---------------------|
| Wire connection cross section, finely stranded, two clampable wires, min. | 0.5 mm ² | Wire cross-section, finely stranded, two clampable wires, max. | 1.5 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. | 1.5 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 B (CSA) | 35 A |
| Current size C (CSA) | 35 A | Voltage size C (CSA) | 600 V |
| Wire cross section max. (CSA) | 10 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. | 6 mm ² |
| Clamping range, rated connection, min. | 0.13 mm ² | Clamping screw | M 3 |
| Connection direction | on side | Cross-section for connected conductor, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, min. | 0.5 mm ² |
| Gauge to IEC 60947-1 | A4 | Number of connections | 2 |
| Stripping length | 10 mm | Tightening torque, max. | 1 Nm |
| Tightening torque, min. | 0.5 Nm | Torque level with DMS electric screwdriver | 2 |
| Twin wire-end ferrules, max. | 2.5 mm ² | Twin wire-end ferrules, min. | 0.5 mm ² |
| Type of connection | Screw connection | Wire connection cross section AWG, max. | AWG 10 |
| Wire connection cross section AWG, min. | AWG 26 | Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, max. | 4 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, finely stranded, max. | 6 mm ² |
| Wire connection cross section, solid core max. rated connection | 6 mm ² | Wire connection cross section, solid core, min. rated connection | 0.5 mm ² |
| Wire connection cross section, stranded, rated connection, max. | 6 mm ² | Wire connection cross section, stranded, rated connection, min. | 1.5 mm ² |
| Wire connection cross-section, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, max. | 4 mm ² | Wire connection cross-section, finely stranded, min. | 0.5 mm ² |

Rating data

| | | | |
|---------------------------------|-------------------|--|-------|
| Rated cross-section | 4 mm ² | Rated voltage | 800 V |
| Rated current | 32 A | Current at maximum wires | 41 A |
| Standards | IEC 60947-7-1 | Volume resistance according to IEC 60947-7-x | 1 mΩ |
| Rated impulse withstand voltage | 8 kV | Pollution severity | 3 |

UL rating data

| | | | |
|---|--------|---|--------|
| Certificate No. (UR) | E60693 | Conductor size Factory wiring max. (UR) | 10 AWG |
| Conductor size Factory wiring min. (UR) | 26 AWG | Conductor size Field wiring max. (UR) | 10 AWG |
| Conductor size Field wiring min. (UR) | 22 AWG | Current size C (UR) | 35 A |
| Voltage size C (UR) | 600 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 | | |

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Data sheet

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Technical data

Product information

| | |
|---------------------------------|--|
| Descriptive text ordering data | 1000 VDC rated voltage tested. Rated voltage is 400 V when using the cross-connector. For alternative colours, see section on W-series accessories |
| Descriptive text technical data | Rated voltage is 400 V when using the ZQV cross-connector. Note max. current of terminal (41 A) when using WQV! |
| Descriptive text accessories | Socket and test plug, see section "W series accessories". Only 400 V with the use of shield bus LS 2.8 1056400000. |

Approvals

Approvals



ROHS Conform

Downloads

| | |
|---|--|
| Approval/Certificate/Document of Conformity | CFAT_WDU 4.pdf IECEXULD14.0005U_e.pdf CFAT_EX i_all products CB Test Zertifikat CB Zertifikat DE_PT1001_20160414_198_ISSUE01.pdf ACF-ATEX_4786180920 |
| Brochure/Catalogue | CAT 5 ENCL 17/18 EN CAT 1 TERM 16/17 EN |
| Engineering Data | EPLAN_WSCAD_Zuken E3.S |
| User Documentation | NTI_IECEX_WDU-WPE 4.pdf |

Safety note

Safety notice [Safety Information](#)

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Drawings

