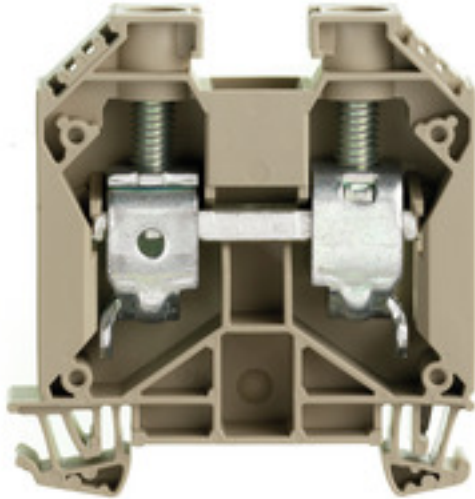


W-Series
WDU 35

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

**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 35 |
| Order No. | 1020500000 |
| Version | Feed-through terminal, Screw connection, 35 mm ² , 1000 V, 125 A, Dark Beige |
| GTIN (EAN) | 4008190077013 |
| Qty. | 40 pc(s). |

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Technical data
Dimensions and weights

| | | | |
|--------------------------|---------|-----------------|------------|
| Width | 16 mm | Width (inches) | 0.63 inch |
| Height | 60 mm | Height (inches) | 2.362 inch |
| Depth | 62.5 mm | Depth (inches) | 2.461 inch |
| Depth including DIN rail | 63 mm | Weight | 54 g |
| Net weight | 51.38 g | | |

Temperatures

| | | | |
|----------------------------------|--------|----------------------------------|--------|
| Continuous operating temp., min. | -60 °C | Continuous operating temp., max. | 130 °C |
|----------------------------------|--------|----------------------------------|--------|

Material data

| | | | |
|---------------------------|-------|--------|------------|
| Material | Wemid | Colour | Dark Beige |
| 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) | 115 A |
| Wire cross section max. (ATEX) | 35 mm ² | Max. voltage (IECEX) | 690 V |
| Current (IECEX) | 115 A | Wire cross section max. (IECEX) | 35 mm ² |
| 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 | Tightening torque (clamping screw for aluminium conductors) | 4 Nm |
| Tightening torque (clamping screw for copper conductors) | 4...5 Nm | 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 | No |
| PE function | No | PEN function | Yes |

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

| | | | |
|--|---------------------|--|--------------------|
| Cross-section for connected wire, stranded, two clampable wires, min. | 16 mm ² | Cross-section for connected wire, stranded, two clampable wires, max. | 16 mm ² |
| Wire connection cross section, finely stranded, two clampable wires, min. | 2.5 mm ² | Wire cross-section, finely stranded, two clampable wires, max. | 16 mm ² |
| Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, min. | 2.5 mm ² | Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, max. | 16 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) | 150 A |
| Voltage size C (CSA) | 600 V | Wire cross section min. (CSA) | 12 AWG |

Conductors for clamping (rated connection)

| | | | |
|---|---------------------|---|---------------------|
| Blade size | 6.5 x 1.2 mm | Clamping range, max. | 50 mm ² |
| Clamping range, min. | 2.5 mm ² | Clamping screw | M 6 |
| Connection cross-section, stranded, max. | 50 mm ² | Connection cross-section, stranded, min. | 2.5 mm ² |
| Connection direction | on side | Gauge to IEC 60947-1 | B8 |
| Number of connections | 2 | Stripping length | 18 mm |
| Tightening torque, max. | 5 Nm | Tightening torque, min. | 4 Nm |
| Twin wire-end ferrules, max. | 16 mm ² | Twin wire-end ferrules, min. | 1.5 mm ² |
| Type of connection | Screw connection | Wire connection cross section AWG, max. | AWG 2 |
| Wire connection cross section AWG, min. | AWG 12 | Wire connection cross section, finely stranded, max. | 35 mm ² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. | 35 mm ² | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 2.5 mm ² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 35 mm ² | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 2.5 mm ² |
| Wire connection cross-section, finely stranded, min. | 2.5 mm ² | Wire connection cross-section, solid core, max. | 16 mm ² |
| Wire connection cross-section, solid core, min. | 2.5 mm ² | | |

Rating data

| | | | |
|---------------------------------|--------------------|--|---------|
| Rated cross-section | 35 mm ² | Rated voltage | 1,000 V |
| Rated current | 125 A | Current at maximum wires | 150 A |
| Standards | IEC 60947-7-1 | Volume resistance according to IEC 60947-7-x | 0.26 mΩ |
| Rated impulse withstand voltage | 8 kV | Pollution severity | 3 |
| Surge voltage category | III | | |

Strap connection

| | | | |
|-----------------------------|------------|-----------------------------|------------|
| Band 1, No. of layers, max. | 9: 9 x 0.8 | Band 1, No. of layers, min. | 3: 9 x 0.8 |
|-----------------------------|------------|-----------------------------|------------|

UL rating data

| | | | |
|---|--------|---|-------|
| Certificate No. (UR) | E60693 | Conductor size Factory wiring max. (UR) | 0 AWG |
| Conductor size Factory wiring min. (UR) | 12 AWG | Conductor size Field wiring max. (UR) | 0 AWG |
| Conductor size Field wiring min. (UR) | 12 AWG | Current size C (UR) | 150 A |
| Voltage size C (UR) | 1000 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 | Order No. 1020500000 and 1020580000 (blue) versions without pegs (40 pcs.). |
| Instructions for accessories | Cross-connections, socket and test plug, see section "W series accessories". |

Approvals

Approvals



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

Downloads

| | |
|---|---|
| Approval/Certificate/Document of Conformity | CFAT_WDU 35.pdf IECEXULD14.0005U_e.pdf CB Testreport CB Certificate DE_PT1001_20160414_179_ISSUE01.pdf ACF-ATEX_4786180920 |
| Brochure/Catalogue | CAT 1 TERM 16/17 EN |
| Engineering Data | EPLAN, WSCAD, Zuken E3.S |
| Engineering Data | STEP |
| User Documentation | NTI_IECEX_WDU-WPE 35.pdf |

Safety note

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

Data sheet

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Drawings

