

W-Series
WDU 35N BL
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16

D-32758 Detmold

Germany

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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 35N BL |
| Order No. | 1040480000 |
| Version | Feed-through terminal, Screw connection, 35 mm ² , 500 V, 125 A, Blue |
| GTIN (EAN) | 4008190353834 |
| Qty. | 20 pc(s). |

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Technical data
Dimensions and weights

| | | | |
|--------------------------|----------|-----------------|------------|
| Width | 16 mm | Width (inches) | 0.63 inch |
| Height | 66 mm | Height (inches) | 2.598 inch |
| Depth | 50.5 mm | Depth (inches) | 1.988 inch |
| Depth including DIN rail | 51 mm | Weight | 52 g |
| Net weight | 48.154 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) | 352 V | Current (ATEX) | 110 A |
| Wire cross section max. (ATEX) | 35 mm ² | Max. voltage (IECEX) | 352 V |
| Current (IECEX) | 110 A | Wire cross section max. (IECEX) | 35 mm ² |
| Marking EN 60079-7 | Ex e II | Ex 2014/34/EU label | II 2 G D |

System specifications

| | | | |
|-------------------------------|--|--|----------|
| Version | Screw connection, for screwable cross-connection, closed | Tightening torque (clamping screw for copper conductors) | 4...5 Nm |
| End cover plate required | No | 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 | Yes | | |

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

| | | | |
|--|---------------------|--|-------------------|
| Wire connection cross section, finely stranded, two clampable wires, min. | 2.5 mm ² | Wire cross-section, finely stranded, two clampable wires, max. | 6 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. | 6 mm ² |

Additional technical data

| | | | |
|--------------------------|--------|-----------------------------|---------|
| Explosion-tested version | No | Number of similar terminals | 1 |
| Open sides | closed | Type of mounting | Snap-on |

CSA rating data

| | | | |
|-------------------------------|-----------|-------------------------------|-------|
| Certificate No. (CSA) | 12400-388 | Current size B (CSA) | 120 A |
| Current size C (CSA) | 150 A | Current size D (CSA) | 10 A |
| Voltage size B (CSA) | 300 V | Voltage size C (CSA) | 600 V |
| Voltage size D (CSA) | 300 V | Wire cross section max. (CSA) | 2 AWG |
| Wire cross section min. (CSA) | 12 AWG | | |

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Technical data
Conductors for clamping (rated connection)

| | | | |
|---|---------------------|---|---------------------|
| Blade size | 6.5 x 1.2 mm | Clamping range, rated connection, max. | 50 mm ² |
| Clamping range, rated connection, min. | 2.5 mm ² | Clamping screw | M 6 |
| Connection direction | | Cross-section for connected conductor, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, min. | 2.5 mm ² |
| | on side | Number of connections | 2 |
| Gauge to IEC 60947-1 | B8 | Tightening torque, max. | 5 Nm |
| Stripping length | 18 mm | Type of connection | Screw connection |
| Tightening torque, min. | 4 Nm | Wire connection cross section AWG, min. | AWG 12 |
| Wire connection cross section AWG, max. | AWG 10 | Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, min. | 2.5 mm ² |
| Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, max. | 35 mm ² | Wire connection cross section, solid core max. rated connection | 16 mm ² |
| Wire connection cross section, finely stranded, max. | 35 mm ² | Wire connection cross section, stranded, rated connection, max. | 50 mm ² |
| Wire connection cross section, solid core, min. rated connection | 2.5 mm ² | Wire connection cross-section, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, max. | 35 mm ² |
| Wire connection cross section, stranded, rated connection, min. | 2.5 mm ² | | |
| Wire connection cross-section, finely stranded, min. | 2.5 mm ² | | |

Rating data

| | | | |
|---------------------------------|--------------------|--|---------|
| Rated cross-section | 35 mm ² | Rated voltage | 500 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 | 6 kV | Pollution severity | 3 |
| Surge voltage category | III | | |

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 | | |

Product information

| | |
|---------------------------------|--|
| Descriptive text ordering data | 1000 V UL and CSA for usage groups B and C: can be used with isolating DIN rails and when using WTW-EN partitions. |
| Descriptive text technical data | 1000 V DC rated voltage tested. |
| Descriptive text accessories | Cross-connections, see section "W series accessories". |

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Data sheet**W-Series
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Technical data**Approvals**

Approvals



ROHS

Conform

DownloadsApproval/Certificate/Document of
Conformity

[CFAT_WDU 35N.pdf](#)
[IECEXULD14.0005U_e.pdf](#)
[DE_PT1001_20160414_192_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 35N.pdf](#)**Safety note**

Safety notice

[Safety Information](#)

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Drawings

