

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

Klingenbergstraße 16

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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                                                                   |
| Order No.  | <a href="#">1040400000</a>                                                |
| Version    | Feed-through terminal, Screw connection, 35 mm², 500 V, 125 A, Dark Beige |
| GTIN (EAN) | 4008190351816                                                             |
| 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               | 48.104 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)            | 352 V              | Current (ATEX)                  | 110 A              |
| Wire cross section max. (ATEX) | 35 mm <sup>2</sup> | Max. voltage (IECEX)            | 352 V              |
| Current (IECEX)                | 110 A              | Wire cross section max. (IECEX) | 35 mm <sup>2</sup> |
| 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                    | No                                                       | 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 <sup>2</sup> | Wire cross-section, finely stranded, two 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. | 2.5 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> |

**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, max.                                                                    | 50 mm <sup>2</sup>  |
| Clamping range, min.                                                                    | 2.5 mm <sup>2</sup> | Clamping screw                                                                          | M 6                 |
| Connection cross-section, stranded, max.                                                | 50 mm <sup>2</sup>  | Connection cross-section, stranded, min.                                                | 2.5 mm <sup>2</sup> |
| 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                |
| Type of connection                                                                      | Screw connection    | Wire connection cross section AWG, max.                                                 | AWG 10              |
| Wire connection cross section AWG, min.                                                 | AWG 12              | Wire connection cross section, finely stranded, max.                                    | 35 mm <sup>2</sup>  |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. | 35 mm <sup>2</sup>  | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 2.5 mm <sup>2</sup> |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 35 mm <sup>2</sup>  | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 2.5 mm <sup>2</sup> |
| Wire connection cross-section, finely stranded, min.                                    | 2.5 mm <sup>2</sup> | Wire connection cross-section, solid core, max.                                         | 16 mm <sup>2</sup>  |
| Wire connection cross-section, solid core, min.                                         | 2.5 mm <sup>2</sup> |                                                                                         |                     |

**Rating data**

|                                 |                    |                                              |         |
|---------------------------------|--------------------|----------------------------------------------|---------|
| Rated cross-section             | 35 mm <sup>2</sup> | 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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## Technical data

### Approvals

Approvals



ROHS

Conform

### Downloads

Approval/Certificate/Document of  
Conformity

[CFAT\\_WDU 35N.pdf](#)  
[IECEXULD14.0005U\\_e.pdf](#)  
[DE\\_PT1001\\_20160414\\_191\\_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](#)

**Data sheet****W-Series  
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**Drawings**