

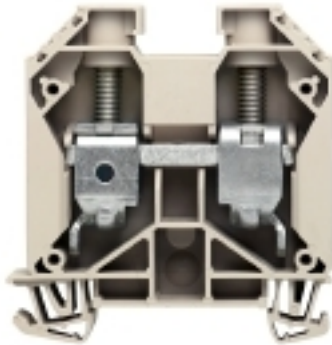
**WDU 35/IK/ZA****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Product image**

To feed through power, signal, and data is the classical requirement in electrical engineering and panel building. The insulating material, the connection system and the design of the terminal blocks are the differentiating features. A feed-through terminal block is suitable for joining and/or connecting one or more conductors. They could have one or more connection levels that are on the same potential or insulated against one another.

**General ordering data**

|            |                                                                                                                         |
|------------|-------------------------------------------------------------------------------------------------------------------------|
| Version    | Feed-through terminal block, Screw connection, dark beige, 35 mm <sup>2</sup> , 125 A, 1000 V, Number of connections: 2 |
| Order No.  | <a href="#">1029000000</a>                                                                                              |
| Type       | WDU 35/IK/ZA                                                                                                            |
| GTIN (EAN) | 4008190124045                                                                                                           |
| Qty.       | 25 pc(s).                                                                                                               |

## WDU 35/IK/ZA

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## Technical data

## Dimensions and weights

|                          |            |                |            |
|--------------------------|------------|----------------|------------|
| Depth                    | 62.5 mm    | Depth (inches) | 2.461 inch |
| Depth including DIN rail | 63 mm      | Height         | 60 mm      |
| Height (inches)          | 2.362 inch | Width          | 16 mm      |
| Width (inches)           | 0.63 inch  | Net weight     | 52.44 g    |

## Temperatures

|                                  |                |                                  |               |
|----------------------------------|----------------|----------------------------------|---------------|
| Storage temperature              | -25 °C...55 °C | Ambient temperature              | -5 °C...40 °C |
| 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 <sup>2</sup> | Max. voltage (IECEX)            | 690 V              |
| Current (IECEX)                | 115 A              | Wire cross section max. (IECEX) | 35 mm <sup>2</sup> |
| 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, With assembly peg, One end without connector | End cover plate required      | Yes |
| Number of potentials                | 1                                                                                              | Number of levels              | 1   |
| Number of clamping points per level | 2                                                                                              | Number of potentials per tier | 1   |
| Levels cross-connected internally   | No                                                                                             | PE connection                 | No  |
| 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, max.                                      | 16 mm <sup>2</sup>  | Cross-section for connected wire, stranded, two clampable wires, min.                                      | 16 mm <sup>2</sup>  |
| Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, max. | 16 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, two clampable wires, min.                                  | 2.5 mm <sup>2</sup> | Wire cross-section, finely stranded, two clampable wires, max.                                             | 16 mm <sup>2</sup>  |

## Additional technical data

|                          |       |                             |         |
|--------------------------|-------|-----------------------------|---------|
| Explosion-tested version | Yes   | Number of similar terminals | 1       |
| Open sides               | right | Type of mounting            | Snap-on |

## 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 |

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## Technical data

## Conductors for clamping (additional connection)

Connection type, additional connection Screw connection

## Conductors for clamping (rated connection)

|                                          |                                        |                              |                       |       |
|------------------------------------------|----------------------------------------|------------------------------|-----------------------|-------|
| Blade size                               | S4 (DIN 6911)                          |                              |                       |       |
| Clampable conductor                      | Connection specification               |                              | Screw connection      |       |
|                                          | Cross-section for conductor connection | Type                         | solid, H05(07) V-U    |       |
|                                          |                                        | min.                         | 2.5 mm <sup>2</sup>   |       |
|                                          |                                        | max.                         | 16 mm <sup>2</sup>    |       |
|                                          |                                        | nominal                      | 35 mm <sup>2</sup>    |       |
|                                          | wire end ferrule                       | Stripping length             | min.                  | 18 mm |
|                                          |                                        |                              | max.                  | 18 mm |
|                                          |                                        |                              | nominal               | 18 mm |
|                                          |                                        | Tightening torque            | min.                  | 4 Nm  |
|                                          |                                        |                              | max.                  | 6 Nm  |
|                                          |                                        | Recommended wire-end ferrule |                       |       |
|                                          | Connection specification               |                              | Screw connection      |       |
|                                          | Cross-section for conductor connection | Type                         | stranded, H07V-R      |       |
|                                          |                                        | min.                         | 2.5 mm <sup>2</sup>   |       |
|                                          |                                        | max.                         | 50 mm <sup>2</sup>    |       |
|                                          |                                        | nominal                      | 35 mm <sup>2</sup>    |       |
|                                          | wire end ferrule                       | Stripping length             | min.                  | 18 mm |
|                                          |                                        |                              | max.                  | 18 mm |
|                                          |                                        |                              | nominal               | 18 mm |
|                                          |                                        | Tightening torque            | min.                  | 4 Nm  |
|                                          |                                        |                              | max.                  | 6 Nm  |
|                                          |                                        | Recommended wire-end ferrule |                       |       |
|                                          | Connection specification               |                              | Screw connection      |       |
|                                          | Cross-section for conductor connection | Type                         | flexible, H05(07) V-K |       |
|                                          |                                        | min.                         | 2.5 mm <sup>2</sup>   |       |
|                                          |                                        | max.                         | 35 mm <sup>2</sup>    |       |
|                                          |                                        | nominal                      | 35 mm <sup>2</sup>    |       |
|                                          | wire end ferrule                       | Stripping length             | min.                  | 18 mm |
|                                          |                                        |                              | max.                  | 18 mm |
|                                          |                                        |                              | nominal               | 18 mm |
|                                          |                                        | Tightening torque            | min.                  | 4 Nm  |
|                                          |                                        |                              | max.                  | 6 Nm  |
|                                          |                                        | Recommended wire-end ferrule |                       |       |
| 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, B9                                 |                              |                       |       |
| Number of connections                    | 2                                      |                              |                       |       |
| Stripping length                         | 18 mm                                  |                              |                       |       |
| Tightening torque, max.                  | 6 Nm                                   |                              |                       |       |
| Tightening torque, min.                  | 4 Nm                                   |                              |                       |       |
| Twin wire-end ferrules, max.             | 16 mm <sup>2</sup>                     |                              |                       |       |
| Twin wire-end ferrules, min.             | 1.5 mm <sup>2</sup>                    |                              |                       |       |

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## Technical data

|                                                                                         |                     |
|-----------------------------------------------------------------------------------------|---------------------|
| 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, min.                                    | 2.5 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, solid core, max.                                         | 16 mm <sup>2</sup>  |
| Wire connection cross-section, solid core, min.                                         | 2.5 mm <sup>2</sup> |

## General

|                                         |        |                                         |               |
|-----------------------------------------|--------|-----------------------------------------|---------------|
| Rail                                    | TS 35  | Standards                               | IEC 60947-7-1 |
| Wire connection cross section AWG, max. | AWG 10 | Wire connection cross section AWG, min. | AWG 12        |

## Rating data

|                                              |                    |                                 |               |
|----------------------------------------------|--------------------|---------------------------------|---------------|
| Rated cross-section                          | 35 mm <sup>2</sup> | Rated voltage                   | 1,000 V       |
| Rated DC 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          |
| Power loss in accordance with IEC 60947-7-x  | 4 W                | Pollution severity              | 3             |

## UL rating data

|                                       |        |                                         |        |
|---------------------------------------|--------|-----------------------------------------|--------|
| Certificate No. (UR)                  | E60693 | Conductor size Factory wiring min. (UR) | 12 AWG |
| Conductor size Field wiring min. (UR) | 12 AWG | Current size B (UR)                     | 150 A  |
| Current size C (UR)                   | 150 A  | Voltage size B (UR)                     | 600 V  |
| Voltage size C (UR)                   | 600 V  | Wire cross section max. (UR)            | 0 AWG  |
| Wire cross section min. (UR)          | 12 AWG |                                         |        |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC000897    | ETIM 7.0    | EC000897    |
| ETIM 8.0    | EC000897    | ETIM 9.0    | EC000897    |
| ETIM 10.0   | EC000897    | ECLASS 9.0  | 27-14-11-20 |
| ECLASS 9.1  | 27-14-11-20 | ECLASS 10.0 | 27-14-11-20 |
| ECLASS 11.0 | 27-14-11-20 | ECLASS 12.0 | 27-14-11-20 |
| ECLASS 13.0 | 27-25-01-01 | ECLASS 14.0 | 27-25-01-01 |
| ECLASS 15.0 | 27-25-01-01 |             |             |

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## Technical data

## Environmental Product Compliance

|                        |                             |
|------------------------|-----------------------------|
| RoHS Compliance Status | Compliant without exemption |
| REACH SVHC             | No SVHC above 0.1 wt%       |

## Approvals

Approvals



Approvals MAMID

[https://mdcop.weidmueller.com/mediadelivery/rendition/900\\_319217/-T1z1mm-S800/](https://mdcop.weidmueller.com/mediadelivery/rendition/900_319217/-T1z1mm-S800/) [https://mdcop.weidmueller.com/mediadelivery/rendition/900\\_319222/-T1z1mm-S800/](https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/) [https://mdcop.weidmueller.com/mediadelivery/rendition/900\\_319226/-T1z1mm-S800/](https://mdcop.weidmueller.com/mediadelivery/rendition/900_319226/-T1z1mm-S800/) [https://mdcop.weidmueller.com/mediadelivery/rendition/900\\_319213/-T1z1mm-S800/](https://mdcop.weidmueller.com/mediadelivery/rendition/900_319213/-T1z1mm-S800/) [https://mdcop.weidmueller.com/mediadelivery/rendition/900\\_319234/-T1z1mm-S800/](https://mdcop.weidmueller.com/mediadelivery/rendition/900_319234/-T1z1mm-S800/) [https://mdcop.weidmueller.com/mediadelivery/rendition/900\\_319240/-T1z1mm-S800/](https://mdcop.weidmueller.com/mediadelivery/rendition/900_319240/-T1z1mm-S800/) [https://mdcop.weidmueller.com/mediadelivery/rendition/900\\_319244/-T1z1mm-S800/](https://mdcop.weidmueller.com/mediadelivery/rendition/900_319244/-T1z1mm-S800/) [https://mdcop.weidmueller.com/mediadelivery/rendition/900\\_319246/-T1z1mm-S800/](https://mdcop.weidmueller.com/mediadelivery/rendition/900_319246/-T1z1mm-S800/) [https://mdcop.weidmueller.com/mediadelivery/rendition/900\\_319249/-T1z1mm-S800/](https://mdcop.weidmueller.com/mediadelivery/rendition/900_319249/-T1z1mm-S800/) [https://mdcop.weidmueller.com/mediadelivery/rendition/900\\_319250/-T1z1mm-S800/](https://mdcop.weidmueller.com/mediadelivery/rendition/900_319250/-T1z1mm-S800/) [https://mdcop.weidmueller.com/mediadelivery/rendition/900\\_319260/-T1z1mm-S800/](https://mdcop.weidmueller.com/mediadelivery/rendition/900_319260/-T1z1mm-S800/) [https://mdcop.weidmueller.com/mediadelivery/rendition/900\\_319262/-T1z1mm-S800/](https://mdcop.weidmueller.com/mediadelivery/rendition/900_319262/-T1z1mm-S800/)

|                       |            |
|-----------------------|------------|
| ROHS                  | Conform    |
| UL File Number Search | UL Website |
| Certificate No. (UR)  | E60693     |

## Downloads

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">IECEX Certificate</a><br><a href="#">CB Testreport</a><br><a href="#">CB Certificate</a><br><a href="#">NEMKO certificate</a><br><a href="#">Lloyds Register Certificate</a><br><a href="#">16-AV4BO-0265U</a><br><a href="#">DNV Certificate</a><br><a href="#">CCC Ex Certificate</a><br><a href="#">CE Declaration of Conformity</a><br><a href="#">ATEX Certificate</a><br><a href="#">UKCA declaration of conformity</a><br><a href="#">Confirmation of Standards EN 45545-2_2020-10</a> |
| Engineering Data                            | <a href="#">CAD data – STEP</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| User Documentation                          | <a href="#">NTI WDU/WPE 35.pdf</a><br><a href="#">StorageConditionsTerminalBlocks</a>                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Brochures                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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## Drawings

