

**WDU 240****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, 240 mm <sup>2</sup> , 415 A, 1000 V, Number of connections: 2 |
| Order No.  | <a href="#">1802780000</a>                                                                                               |
| Type       | WDU 240                                                                                                                  |
| GTIN (EAN) | 4032248313723                                                                                                            |
| Qty.       | 2 pc(s).                                                                                                                 |

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## Technical data

## Dimensions and weights

|                          |            |                |           |
|--------------------------|------------|----------------|-----------|
| Depth                    | 123.7 mm   | Depth (inches) | 4.87 inch |
| Depth including DIN rail | 124 mm     | Height         | 100 mm    |
| Height (inches)          | 3.937 inch | Width          | 36 mm     |
| Width (inches)           | 1.417 inch | Net weight     | 472.5 g   |

## Temperatures

|                                  |                |                                  |               |
|----------------------------------|----------------|----------------------------------|---------------|
| Storage temperature              | -25 °C...55 °C | Ambient temperature              | -5 °C...40 °C |
| Continuous operating temp., min. | -60 °C         | Continuous operating temp., max. | 120 °C        |

## Material data

|                           |       |        |            |
|---------------------------|-------|--------|------------|
| Material                  | Wemid | Colour | dark beige |
| UL 94 flammability rating | V-0   |        |            |

## Rating data IECEx/ATEX

|                        |                 |                                |                     |
|------------------------|-----------------|--------------------------------|---------------------|
| Certificate No. (ATEX) | KEMA01ATEX2186U | Max. voltage (ATEX)            | 1100 V              |
| Current (ATEX)         | 350 A           | Wire cross section max. (ATEX) | 240 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, in closed state | End cover plate required      | No  |
| 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 32, 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.                                      | 95 mm <sup>2</sup> | Cross-section for connected wire, stranded, two clampable wires, min.                                      | 35 mm <sup>2</sup> |
| Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, max. | 50 mm <sup>2</sup> | Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, min. | 35 mm <sup>2</sup> |
| Wire connection cross section, finely stranded, two clampable wires, min.                                  | 50 mm <sup>2</sup> | Wire cross-section, finely stranded, two clampable wires, max.                                             | 95 mm <sup>2</sup> |

## Additional technical data

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

## CSA rating data

|                               |        |                               |           |
|-------------------------------|--------|-------------------------------|-----------|
| Certificate No. (CSA)         | 213329 | Current size C (CSA)          | 400 A     |
| Voltage size C (CSA)          | 600 V  | Wire cross section max. (CSA) | 500 kcmil |
| Wire cross section min. (CSA) | 0 AWG  |                               |           |

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## Technical data

## Conductors for clamping (additional connection)

Connection type, additional connection Screw / solder connection

## Conductors for clamping (rated connection)

|                                                                                         |                                        |                              |                       |       |
|-----------------------------------------------------------------------------------------|----------------------------------------|------------------------------|-----------------------|-------|
| Blade size                                                                              | S8 (DIN 6911)                          |                              |                       |       |
| Clampable conductor                                                                     | Connection specification               | Screw connection             |                       |       |
|                                                                                         | Cross-section for conductor connection | Type                         | stranded, H07V-R      |       |
|                                                                                         |                                        | min.                         | 70 mm <sup>2</sup>    |       |
|                                                                                         |                                        | max.                         | 240 mm <sup>2</sup>   |       |
|                                                                                         |                                        | nominal                      | 240 mm <sup>2</sup>   |       |
|                                                                                         | wire end ferrule                       | Stripping length             | min.                  | 40 mm |
|                                                                                         |                                        |                              | max.                  | 40 mm |
|                                                                                         |                                        |                              | nominal               | 40 mm |
|                                                                                         |                                        | Tightening torque            | min.                  | 25 Nm |
|                                                                                         |                                        |                              | max.                  | 30 Nm |
|                                                                                         |                                        | Recommended wire-end ferrule |                       |       |
|                                                                                         | Connection specification               | Screw connection             |                       |       |
|                                                                                         | Cross-section for conductor connection | Type                         | flexible, H05(07) V-K |       |
|                                                                                         |                                        | min.                         | 70 mm <sup>2</sup>    |       |
|                                                                                         |                                        | max.                         | 240 mm <sup>2</sup>   |       |
|                                                                                         |                                        | nominal                      | 240 mm <sup>2</sup>   |       |
|                                                                                         | wire end ferrule                       | Stripping length             | min.                  | 40 mm |
|                                                                                         |                                        |                              | max.                  | 40 mm |
|                                                                                         |                                        |                              | nominal               | 40 mm |
|                                                                                         |                                        | Tightening torque            | min.                  | 25 Nm |
|                                                                                         |                                        |                              | max.                  | 30 Nm |
|                                                                                         |                                        | Recommended wire-end ferrule |                       |       |
| Clamping range, max.                                                                    | 240 mm <sup>2</sup>                    |                              |                       |       |
| Clamping range, min.                                                                    | 70 mm <sup>2</sup>                     |                              |                       |       |
| Clamping screw                                                                          | M 10                                   |                              |                       |       |
| Connection cross-section, stranded, max.                                                | 240 mm <sup>2</sup>                    |                              |                       |       |
| Connection cross-section, stranded, min.                                                | 70 mm <sup>2</sup>                     |                              |                       |       |
| Connection direction                                                                    | on side                                |                              |                       |       |
| Gauge to IEC 60947-1                                                                    | B15                                    |                              |                       |       |
| Number of connections                                                                   | 2                                      |                              |                       |       |
| Stripping length                                                                        | 40 mm                                  |                              |                       |       |
| Tightening torque, max.                                                                 | 30 Nm                                  |                              |                       |       |
| Tightening torque, min.                                                                 | 25 Nm                                  |                              |                       |       |
| Type of connection                                                                      | Screw connection                       |                              |                       |       |
| Wire connection cross section AWG, max.                                                 | kcmil 500                              |                              |                       |       |
| Wire connection cross section AWG, min.                                                 | AWG 2/0                                |                              |                       |       |
| Wire connection cross section, finely stranded, max.                                    | 240 mm <sup>2</sup>                    |                              |                       |       |
| Wire connection cross section, finely stranded, min.                                    | 70 mm <sup>2</sup>                     |                              |                       |       |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. | 185 mm <sup>2</sup>                    |                              |                       |       |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 70 mm <sup>2</sup>                     |                              |                       |       |

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Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. 185 mm<sup>2</sup>

Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. 70 mm<sup>2</sup>

Wire connection cross-section, solid core, max. 185 mm<sup>2</sup>

Wire connection cross-section, solid core, min. 70 mm<sup>2</sup>

## General

|                                         |              |                                         |               |
|-----------------------------------------|--------------|-----------------------------------------|---------------|
| Rail                                    | TS 32, TS 35 | Standards                               | IEC 60947-7-1 |
| Wire connection cross section AWG, max. | kcmil 500    | Wire connection cross section AWG, min. | AWG 2/0       |

## Rating data

|                                              |                     |                                 |               |
|----------------------------------------------|---------------------|---------------------------------|---------------|
| Rated cross-section                          | 240 mm <sup>2</sup> | Rated voltage                   | 1,000 V       |
| Rated DC voltage                             | 1,000 V             | Rated current                   | 415 A         |
| Current at maximum wires                     | 415 A               | Standards                       | IEC 60947-7-1 |
| Volume resistance according to IEC 60947-7-x | 0.08 mΩ             | Rated impulse withstand voltage | 8 kV          |
| Power loss in accordance with IEC 60947-7-x  | 13.28 W             | Pollution severity              | 3             |

## UL rating data

|                      |         |                              |           |
|----------------------|---------|------------------------------|-----------|
| Certificate No. (UR) | E175455 | Current size C (UR)          | 380 A     |
| Voltage size C (UR)  | 600 V   | Wire cross section max. (UR) | 500 kcmil |

## 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 |             |             |

## Environmental Product Compliance

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

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## Technical data

## Approvals

Approvals



Approvals MAMID

[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\\_319240/-T1z1mm-S800/](https://mdcop.weidmueller.com/mediadelivery/rendition/900_319240/-T1z1mm-S800/) [https://mdcop.weidmueller.com/mediadelivery/rendition/900\\_319242/-T1z1mm-S800/](https://mdcop.weidmueller.com/mediadelivery/rendition/900_319242/-T1z1mm-S800/) [https://mdcop.weidmueller.com/mediadelivery/rendition/900\\_319243/-T1z1mm-S800/](https://mdcop.weidmueller.com/mediadelivery/rendition/900_319243/-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\\_319262/-T1z1mm-S800/](https://mdcop.weidmueller.com/mediadelivery/rendition/900_319262/-T1z1mm-S800/) [https://mdcop.weidmueller.com/mediadelivery/rendition/900\\_319260/-T1z1mm-S800/](https://mdcop.weidmueller.com/mediadelivery/rendition/900_319260/-T1z1mm-S800/)

ROHS

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Certificate No. (UR)

E175455

## Downloads

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[CAD data – STEP](#)

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## Drawings

