

WDU 240**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image

More and more components need to be housed within a confined space, in switchgear and panels. As part of the power feed-in, connecting conductors is becoming increasingly challenging, especially for large cross-sections. Our comprehensive range of connection solutions also enables convenient wiring in challenging space conditions. The compact design and the combination of many practical handling benefits make the supply of power to switchgear and panels simple, efficient, and space-saving.

General ordering data

| | |
|------------|--|
| Version | Feed-through terminal block, Screw connection, dark beige, 240 mm ² , 415 A, 1000 V, Number of connections: 2 |
| Order No. | 1802780000 |
| Type | WDU 240 |
| GTIN (EAN) | 4032248313723 |
| Qty. | 2 items |

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Technical data

Approvals

Approvals



| | |
|-----------------------|----------------------------|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate No. (UR) | E175455 |

Dimensions and weights

| | | | |
|--------------------------|-------------|----------------|-------------|
| Depth | 123.7 mm | Depth (inches) | 4.8701 inch |
| Depth including DIN rail | 124 mm | Height | 100 mm |
| Height (inches) | 3.937 inch | Width | 36 mm |
| Width (inches) | 1.4173 inch | Net weight | 472.5 g |

Temperatures

| | | | |
|----------------------------------|----------------|----------------------------------|----------------|
| Storage temperature | -25 °C...55 °C | Ambient temperature | -60 °C...75 °C |
| Continuous operating temp., min. | -60 °C | Continuous operating temp., max. | 120 °C |

Environmental Product Compliance

| | | | |
|--------------------------|-----------------------------|------------------|--|
| RoHS Compliance Status | Compliant without exemption | | |
| REACH SVHC | No SVHC above 0.1 wt% | | |
| Product Carbon Footprint | Cradle to gate | 3.208 kg CO2 eq. | |

Material data

| | | | |
|---------------------------|-------|--------|------------|
| Basic 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 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, 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 |
| Mounting rail | TS 32, TS 35 | N-function | No |
| PE function | No | PEN function | Yes |

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

| | | | |
|--|--------------------|--|--------------------|
| Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, max. | 50 mm ² | Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, min. | 35 mm ² |
| Wire cross-section, finely stranded, two clampable wires, max. | 95 mm ² | Wire connection cross section, finely stranded, two clampable wires, min. | 50 mm ² |
| Cross-section for connected wire, stranded, two clampable wires, max. | 95 mm ² | Cross-section for connected wire, stranded, two clampable wires, min. | 35 mm ² |

Additional technical data

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

CSA rating data

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

Conductors for clamping (additional connection)

Connection type, additional connection Screw / solder connection

Conductors for clamping (rated connection)

| | |
|---|---------------------|
| Gauge to IEC 60947-1 | B15 |
| Wire connection cross section AWG, max. | kcmil 500 |
| Connection direction | on side |
| Tightening torque, max. | 30 Nm |
| Tightening torque, min. | 25 Nm |
| Stripping length | 40 mm |
| Type of connection | Screw connection |
| Number of connections | 2 |
| Clamping range, max. | 240 mm ² |
| Clamping range, min. | 70 mm ² |
| Clamping screw | M 10 |
| Blade size | S8 (DIN 6911) |
| Wire connection cross section AWG, min. | AWG 2/0 |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 185 mm ² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 70 mm ² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. | 185 mm ² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 70 mm ² |
| Wire connection cross section, finely stranded, max. | 240 mm ² |
| Wire connection cross section, finely stranded, min. | 70 mm ² |
| Connection cross-section, stranded, max. | 240 mm ² |

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| | | | | |
|---|--|-----------------------|---------------------|-------|
| Connection cross-section, stranded, min. 70 mm ² | | | | |
| Wire connection cross-section, solid core, max. | 185 mm ² | | | |
| Wire connection cross-section, solid core, min. | 70 mm ² | | | |
| Connection cross-section, finely stranded, min. | 70 mm ² | | | |
| Clampable conductor | Connection specification | | Screw connection | |
| | Cross-section for conductor connection | Type | stranded, H07V-R | |
| | | min. | 70 mm ² | |
| | | max. | 240 mm ² | |
| | | nominal | 240 mm ² | |
| | wire end ferrule | Stripping length | min. | 40 mm |
| | | | max. | 40 mm |
| | | | nominal | 40 mm |
| | | Tightening torque | min. | 25 Nm |
| | | | max. | 30 Nm |
| | | | | |
| | Connection specification | | Screw connection | |
| Cross-section for conductor connection | Type | flexible, H05(07) V-K | | |
| | min. | 70 mm ² | | |
| | max. | 240 mm ² | | |
| | nominal | 240 mm ² | | |
| wire end ferrule | Stripping length | min. | 40 mm | |
| | | max. | 40 mm | |
| | | nominal | 40 mm | |
| | Tightening torque | min. | 25 Nm | |
| | | max. | 30 Nm | |
| | | | | |

General

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

PE rating data

| | |
|--------------|-----|
| PEN function | Yes |
|--------------|-----|

Rating data

| | | | |
|--|---------------------|---------------------------------|---------------|
| Rated cross-section | 240 mm ² | Rated voltage | 1000 V |
| Rated DC voltage | 1000 V | Nominal 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

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

Important note

Product information The max. connectable wire reduces by one wire size if a cross connector is used that has to be mounted in the wire entry.

Technical data

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 8.0 | EC000897 | ETIM 9.0 | EC000897 |
| ETIM 10.0 | EC000897 | ECLASS 14.0 | 27-25-01-01 |
| ECLASS 15.0 | 27-25-01-01 | | |

Drawings

