

WPD 133 1X300/1X300 BN

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Product image

Klippon® Connect power feed-in terminal blocks WPD allow for an easy and safe installation of aluminium and copper conductors on a small footprint. A power supply or monitoring connection can also be used as an option. Customers can use the power feed-in terminal blocks WPD, regardless of the conductor material. They can be mounted either directly or on DIN rail TS35.

General ordering data

| | |
|------------|---|
| Version | Potential distributor terminal, Screw connection, brown, 300 mm ² , 520 A, 1000 V, Number of connections: 2, Number of levels: 1 |
| Order No. | 2502880000 |
| Type | WPD 133 1X300/1X300 BN |
| GTIN (EAN) | 4050118516708 |
| Qty. | 1 items |

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Technical data

Approvals

Approvals



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

Dimensions and weights

| | | | |
|------------|---------|-----------------|-------------|
| Depth | 83.5 mm | Depth (inches) | 3.2874 inch |
| Height | 118 mm | Height (inches) | 4.6457 inch |
| Width | 45 mm | Width (inches) | 1.7716 inch |
| Net weight | 338 g | | |

Temperatures

| | | | |
|----------------------------------|----------------|----------------------------------|---------------|
| Storage temperature | -25 °C...55 °C | Ambient temperature | -5 °C...40 °C |
| Continuous operating temp., min. | -50 °C | Continuous operating temp., max. | 120 °C |

Environmental Product Compliance

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

Material data

| | | | |
|---------------------------|-------|--------|-------|
| Basic material | Wemid | Colour | brown |
| UL 94 flammability rating | V-0 | | |

Rating data IECEx/ATEX

| | | | |
|--------------------------------|---------------------|-------------------------|-------------------|
| Certificate No. (ATEX) | CNEX18ATEX0016U | Certificate No. (IECEX) | IECEXCNEX18.0010U |
| Max. voltage (ATEX) | 1100 V | Current (ATEX) | 520 A |
| Wire cross section max. (ATEX) | 300 mm ² | Max. voltage (IECEX) | 1100 V |
| Current (IECEX) | 520 A | | |

System specifications

| | | | |
|-------------------------------------|------------------|-----------------------------------|-------|
| Version | Screw connection | End cover plate required | No |
| Number of potentials | 1 | Number of levels | 1 |
| Number of clamping points per level | 2 | Levels cross-connected internally | No |
| PE connection | No | Mounting rail | TS 35 |
| PE function | No | | |

Additional technical data

| | | | |
|---------------------|--------------------------------|--------------------------|-----|
| Installation advice | Terminal rail / mounting plate | Explosion-tested version | Yes |
| Type of mounting | Snap-on | | |

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Technical data

Conductors for clamping (additional connection)

Connection type, additional connection Screw connection

Conductors for clamping (rated connection)

| | | | |
|---|--------------------|---|---------------------|
| Wire connection cross section AWG, max. | kcmil 500 | Connection direction | on side |
| Type of connection 2 | Screw connection | Type of connection | Screw connection |
| Number of connections | 2 | Clamping range, max. | 300 mm ² |
| Clamping range, min. | 35 mm ² | Wire connection cross section AWG, min. | AWG 16 |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 35 mm ² | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. | 240 mm ² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 35 mm ² | Wire connection cross section, finely stranded, max. | 300 mm ² |
| Wire connection cross section, finely stranded, min. | 35 mm ² | Connection cross-section, stranded, max. | 300 mm ² |
| Connection cross-section, stranded, min. 35 mm ² | | Wire connection cross-section, solid core, max. | 300 mm ² |
| Wire connection cross-section, solid core, min. | 35 mm ² | | |

General

| | | | |
|---------------------|--------------------------------|---|-----------|
| Number of poles | 1 | Wire connection cross section AWG, max. | kcmil 500 |
| Installation advice | Terminal rail / mounting plate | Wire connection cross section AWG, min. | AWG 16 |
| Standards | IEC 60947-7-1, UL 1059, CSA | Mounting rail | TS 35 |

Rating data

| | | | |
|---|-----------------------------|--|---------|
| Rated cross-section | 300 mm ² | Rated voltage | 1000 V |
| Rated AC voltage | 1000 V | Rated DC voltage | 1000 V |
| Nominal current | 520 A | Current at maximum wires | 520 A |
| Standards | IEC 60947-7-1, UL 1059, CSA | Volume resistance according to IEC 60947-7-x | 0.06 mΩ |
| Rated impulse withstand voltage | 8 kV | Power loss in accordance with IEC 60947-7-x | 16.64 W |
| Short-time withstand current resistance | 8/20μs with 50 kA | Surge voltage category | III |
| Pollution severity | 3 | | |

UL rating data

Certificate No. (cURus) E60693

Important note

Product information You will find additional information in the downloadsection of the onlinecatalogue

Classifications

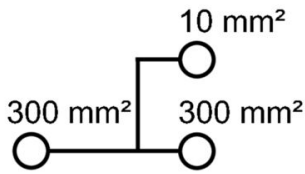
| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 8.0 | EC000897 | ETIM 9.0 | EC000897 |
| ETIM 10.0 | EC000897 | ECLASS 14.0 | 27-25-01-19 |
| ECLASS 15.0 | 27-25-01-19 | | |

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Drawings



Conductor connection data according to IEC 60947-7-1 (Cu)

| Input (x1) / Output (x1) | Copper | | Aluminum | |
|---|----------------|---------|----------|---------|
| | □ □ □ □ | □ □ □ □ | □ □ □ □ | □ □ □ □ |
| 300 mm² | | | | |
| 240 mm² | | | | |
| 185 mm² | 45 Nm | | 65 Nm | 65 Nm |
| 150 mm² | | | | |
| 120 mm² | | | | |
| 95 mm² | | | | |
| 70 mm² | | | | |
| 50 mm² | 30 Nm | | | |
| 35 mm² | | | | |
| Flat band 15x25x1 mm | | | 65 Nm | |
| Max. current with 2 x 300 mm² (acc. to IEC) | 1040 A | | 940 A | |
| Stripping lengths | 34 mm | | | |
| Allen screw | M24 (SW 12 mm) | | | |

Auxiliary connection

| | Copper | |
|-------------------|------------|---------|
| | □ □ □ □ | □ □ □ □ |
| 10 mm² | | |
| 6 mm² | | |
| 4 mm² | 1,2 Nm | |
| 2,5 mm² | | |
| 1,5 mm² | | |
| max. current | 57 A | |
| Stripping lengths | 10 mm | |
| screw | M4 (+ PZ2) | |

□ □ □ □ Stranded
 □ □ □ □ Solid
 □ □ □ □ Flexible with ferrule
 □ □ □ □ Sector shaped
 □ □ □ □ Flat band

Conductor connection data according to UL 1059 (Al+Cu)

| Input (x1) / Output (x1) | Copper | | Aluminum | |
|---|----------------|---------|------------|------------|
| | □ □ □ □ | □ □ □ □ | □ □ □ □ | □ □ □ □ |
| 600 kcmil | | | | |
| 300 kcmil | | | | |
| 300 kcmil | 300 lb ft. | | 575 lb ft. | 575 lb ft. |
| 300 kcmil | | | | |
| 250 kcmil | | | | |
| AWG 3/0 | | | | |
| AWG 2/0 | | | | |
| AWG 1 | 200 lb ft. | | | |
| AWG 2 | | | | |
| Max. current at 1 x 300 mm² (acc. to IEC) | 820 A | | 940 A | |
| Stripping lengths | 34 mm | | | |
| Allen screw | M24 (SW 12 mm) | | | |

Auxiliary connection

| | Copper | |
|-------------------|------------|-----------|
| | □ □ □ □ | □ □ □ □ |
| AWG 8 | | |
| AWG 10 | | |
| AWG 12 | 20 lb ft. | |
| AWG 14 | | 20 lb ft. |
| AWG 16 | | |
| max. current | 57 A | |
| Stripping lengths | 10 mm | |
| screw | M4 (+ PZ2) | |

□ □ □ □ Stranded
 □ □ □ □ Solid
 □ □ □ □ Flexible with ferrule
 □ □ □ □ Sector shaped
 □ □ □ □ Flat band

