

WPD 108 1X120/2X35+3X25+4X16 BL

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

www.weidmueller.com

Product image

Our WPD 1XX distribution blocks are used in all situations where power is supplied and distributed. Their user-friendly design creates a better overview and enables Rapid, efficient implementation of space-saving power distribution.

General ordering data

| | |
|------------|---|
| Version | Potential distributor terminal, Screw connection, blue, 120 mm ² , 400 A, 1000 V, Number of connections: 10, Number of levels: 1 |
| Order No. | 2519480000 |
| Type | WPD 108 1X120/2X35+3X25+4X16 BL |
| GTIN (EAN) | 4050118531794 |
| 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 | 77 mm | Depth (inches) | 3.0315 inch |
| Height | 95 mm | Height (inches) | 3.7401 inch |
| Width | 51.1 mm | Width (inches) | 2.0118 inch |
| Net weight | 480 g | | |

Temperatures

| | | | |
|----------------------------------|----------------|----------------------------------|----------------|
| Storage temperature | -25 °C...55 °C | Ambient temperature | -50 °C...85 °C |
| Continuous operating temp., min. | -50 °C | Continuous operating temp., max. | 130 °C |

Environmental Product Compliance

| | |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status | Compliant with exemption |
| RoHS Exemption (if applicable/known) | 6c |
| REACH SVHC | Lead 7439-92-1 |
| SCIP | 9b5f0838-1f0b-4c14-9fc7-3f5e6ee75be2 |

Material data

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

Rating data IECEx/ATEX

| | | | |
|--------------------------------|---------------------|-------------------------|-------------------|
| Certificate No. (ATEX) | CNEX16ATEX0005U | Certificate No. (IECEX) | IECEXCNEX16.0005U |
| Max. voltage (ATEX) | 1100 V | Current (ATEX) | 250 A |
| Wire cross section max. (ATEX) | 120 mm ² | Max. voltage (IECEX) | 1100 V |
| Current (IECEX) | 250 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 | Number of potentials per tier | 1 |
| Levels cross-connected internally | Yes | Mounting rail | Mounting plate, TS 35 |
| N-function | Yes | PE function | No |
| PEN function | No | | |

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Technical data
Additional technical data

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

CSA rating data

| | |
|-----------------------------|----------|
| Certificate number (cCSAus) | 70128467 |
|-----------------------------|----------|

Conductors for clamping (additional connection)

| | |
|--|------------------|
| Connection type, additional connection | Screw connection |
|--|------------------|

Conductors for clamping (rated connection)

| | | | |
|---|---------------------|---|---------------------|
| Wire connection cross section AWG, max. | kcmil 250 | Connection direction | on side |
| Type of connection 2 | Screw connection | Type of connection | Screw connection |
| Number of connections | 10 | Clamping range, max. | 120 mm ² |
| Clamping range, min. | 1.5 mm ² | Wire connection cross section AWG, min. | AWG 16 |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 1.5 mm ² | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. | 95 mm ² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 1.5 mm ² | Wire connection cross section, finely stranded, max. | 0 mm ² |
| Wire connection cross section, finely stranded, min. | 1.5 mm ² | Connection cross-section, stranded, max. | 120 mm ² |
| Connection cross-section, stranded, min. | 1.5 mm ² | Wire connection cross-section, solid core, max. | 120 mm ² |
| Wire connection cross-section, solid core, min. | 1.5 mm ² | | |

General

| | | | |
|---------------------|--------------------------------|---|-----------------------|
| Number of poles | 1 | Wire connection cross section AWG, max. | kcmil 250 |
| Installation advice | Terminal rail / mounting plate | Wire connection cross section AWG, min. | AWG 16 |
| Standards | IEC 60947-7-1, UL 1059 | Mounting rail | Mounting plate, TS 35 |

Rating data

| | | | |
|---------------------|------------------------|---|--------|
| Rated cross-section | 120 mm ² | Rated voltage | 1000 V |
| Rated AC voltage | 1000 V | Rated DC voltage | 1500 V |
| Nominal current | 400 A | Current at maximum wires | 400 A |
| Standards | IEC 60947-7-1, UL 1059 | Power loss in accordance with IEC 60947-7-x | 4.00 W |

UL rating data

| | |
|-------------------------|--------|
| Certificate No. (cURus) | E60693 |
|-------------------------|--------|

Important note

| | |
|---------------------|--|
| Product information | The socket complies with flammability class V-2 according to UL94. |
|---------------------|--|

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Technical data

Classifications

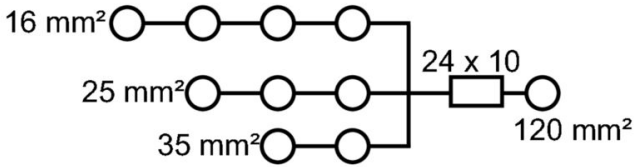
| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 8.0 | EC000897 | ETIM 9.0 | EC000897 |
| ETIM 10.0 | EC000897 | ECLASS 14.0 | 27-25-01-19 |
| ECLASS 15.0 | 27-25-01-19 | | |

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Drawings

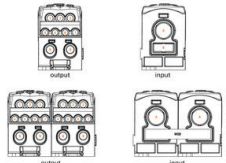


Conductor connection data according to IEC 60947-7-1 (Co)

| Input | connection point A | | CP** B | |
|-------------------|--------------------|-----------|---------|--------|
| | Copper | Aluminum* | Copper | Copper |
| 120 mm² | 19 Nm | 22,6 Nm | 22,6 Nm | |
| 95 mm² | | | | |
| 70 mm² | | | | |
| 50 mm² | | | | |
| 35 mm² | | | | |
| 25 mm² | | | | |
| Flat band 24x10mm | | | 3 Nm | |
| Stripping length | 27 mm | | 22 mm | |
| Allen screw | M16 | | M6 | |

| Output | connection point 1 / 2 / 3 | | connection point 4 / 5 / 6 / 7 | | connection point 8 / 9 | |
|------------------|----------------------------|-----------|--------------------------------|-----------|------------------------|-----------|
| | Copper | Aluminum* | Copper | Aluminum* | Copper | Aluminum* |
| 35 mm² | | | | | | |
| 25 mm² | | | 5,1 Nm | 5,1 Nm | 5,1 Nm | |
| 18 mm² | | | | | 2,5 Nm | |
| 16 mm² | | | | | | 11,3 Nm |
| 8 mm² | 2 Nm | | 2 Nm | 2 Nm | 2,5 Nm | 11,3 Nm |
| 4 mm² | | | | | | |
| 2,5 mm² | | | | | | |
| 1,5 mm² | | | | | | |
| Stripping length | 12 mm | | 12 mm | | 18 mm | |
| Allen screw | M6 | | M6 | | M6 | |

*Values according to UL 1959 ** CP: connection point

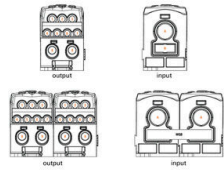


Conductor connection data according to UL 1659 (Al+Cu)

| Input (line) | connection point A | | CP** B | |
|-----------------------|--------------------|------------|------------|-------------|
| | Copper | Aluminum* | Copper | Copper |
| 1000 250 | | | | |
| AWG 4/0 | | | | |
| AWG 3/0 | 188,2 lb in. | 200 lb in. | 200 lb in. | |
| AWG 2/0 | | | | |
| AWG 1/0 | | | | |
| AWG 2 | | | | |
| AWG 4 | | | | |
| Flat band 24x10 mm | | | | 17,7 lb in. |
| max. current | 250 A | 200 A | 160 A | 205 A |
| Voltage size B.C (DR) | 600 V | | | |

| Output | connection point 1 / 2 / 3 | | connection point 4 / 5 / 6 / 7 | | connection point 8 / 9 | |
|-----------------------|----------------------------|-------------|--------------------------------|-------------|------------------------|------------|
| | Copper | Aluminum* | Copper | Aluminum* | Copper | Aluminum* |
| AWG 2 | | | | | | |
| AWG 4 | | | | | | |
| AWG 6 | | | 45,1 lb in. | 45,1 lb in. | 100 lb in. | 100 lb in. |
| AWG 8 | | | | | | |
| AWG 10 | 22,8 lb in. | 22,8 lb in. | | | | |
| AWG 12 | | | 22,8 lb in. | 22,8 lb in. | | |
| AWG 14 | | | | | | |
| AWG 16 | | | | | | |
| max. current | 85 A | 65 A | 65 A | 50 A | 65 A | 65 A |
| Voltage size B.C (DR) | 600 V | | | | | |

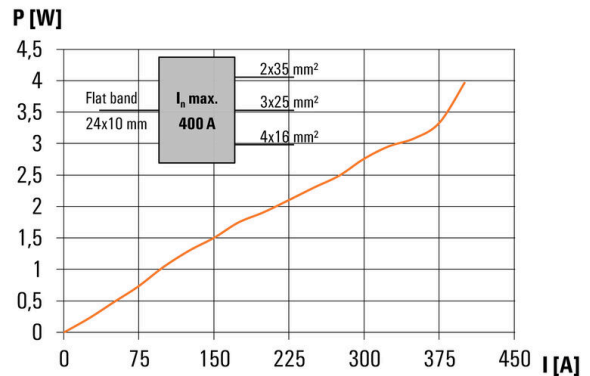
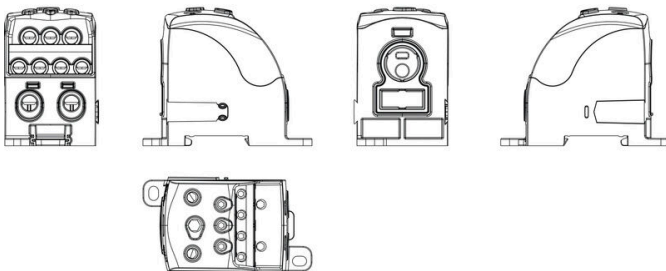
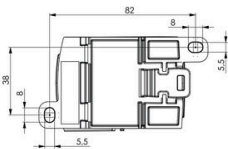
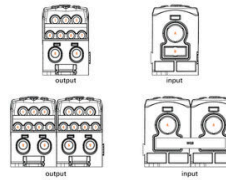
*Values according to UL 1959 ** CP: connection point



CSA rating data according to CSA 22.2 No. 150

| Input | 20622 | | Output | |
|----------------------|--------|------------|--------------|--------|
| | CP** A | CP** 1/2/3 | CP** 4/5/6/7 | CP** B |
| 1000 250 | | | | |
| AWG 4/0 | | | | |
| AWG 3/0 | 19 Nm | | | |
| AWG 2 | | | | |
| AWG 4 | | | | |
| AWG 6 | | | 3 Nm | 6 Nm |
| AWG 8 | | | | |
| AWG 10 | | | | |
| AWG 12 | | | | |
| AWG 14 | | | | |
| AWG 16 | | | | |
| max. current | 255 A | 85 A | 85 A | 115 A |
| Voltage size C (CSA) | 600 V | | | |

*Values according to UL 1959 ** CP: connection point



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Accessories

Socket wrench sets



Allen key made from fully hardened, high-alloy chromium-vanadium- steel, acc. to DIN ISO 2936 L (DIN 911), high-quality refined surface.

General ordering data

| | | | |
|------------|----------------------------|-----------------|--|
| Type | SKS 2,0-8,0 MR | Version | |
| Order No. | 9008870000 | socket wrenches | |
| GTIN (EAN) | 4032248266623 | | |
| Qty. | 1 ST | | |

Slotted screwdriver



Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip

General ordering data

| | | | |
|------------|----------------------------|--------------------------|--|
| Type | SDS 0.6X3.5X100 | Version | |
| Order No. | 9008330000 | Screwdriver, Screwdriver | |
| GTIN (EAN) | 4032248056286 | | |
| Qty. | 1 ST | | |

Custom printing



ESG is the tried-and-tested marker in MultiCard format for use on many well-known electrical devices. The result is high-quality device marking with a high-contrast appearance.

Various types are available for devices from manufacturers like Siemens, ABB, Beckhoff etc. Advantages at a glance:

- Tags for universal usage, self-adhesive or clip-on tags, depending on type
- For aligned equipment, e.g. circuit breakers, we supply ESG markers for clipping onto tag rails
- Individual laser-quality printing according to specifications

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

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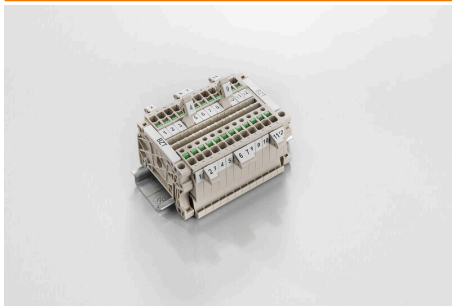
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Accessories

General ordering data

| | | | |
|------------|----------------------------|---|--|
| Type | ESG 9/17 K MC SDR | Version | |
| Order No. | 1674770000 | ESG, Device markers x 17 mm, PA 66, Colour: To customer | |
| GTIN (EAN) | 4008190447656 | specification, Self-adhesive | |
| Qty. | 40 ST | | |

Marker holder

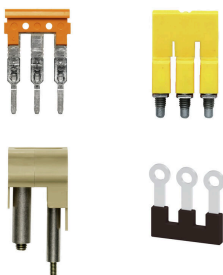


The marker holder offer the possibility of additional mounting of standard markers with a pitch of 5 or 5.1 mm. The angled holders can be optionally snapped together and could be mounted in all standard marking channels of the Klippon® Connect modular terminal blocks. Fitting marker types could be found under the respective accessories of the designation marking holder.

General ordering data

| | | | |
|------------|----------------------------|----------------------------|--|
| Type | BZT 1 WS 10/5 | Version | |
| Order No. | 1805490000 | Accessories, Marker holder | |
| GTIN (EAN) | 4032248270231 | | |
| Qty. | 100 ST | | |
| Type | BZT 1 ZA WS 10/5 | Version | |
| Order No. | 1805520000 | Accessories, Marker holder | |
| GTIN (EAN) | 4032248270248 | | |
| Qty. | 100 ST | | |

Cross-connections



The distribution or multiplication of a potential to adjoining terminal blocks is realized via a cross-connection. Additional wiring effort can be easily avoided. Even if the poles are broken out, contact reliability in the terminal blocks is still ensured. Our portfolio offers pluggable and screwable cross-connection systems for modular terminal blocks.

General ordering data

| | | | |
|------------|----------------------------|---|--|
| Type | WQB WPD X08-09/2 | Version | |
| Order No. | 1561900000 | Cross-connector (terminal), Plugged, grey, 353 A, Number of poles: 2, | |
| GTIN (EAN) | 4050118367096 | Pitch in mm (P): 51.10, Insulated: Yes, Width: 74.6 mm | |
| Qty. | 3 ST | | |