

**WPD 109 1X185/2X35+3X25+4X16 BL**

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

[www.weidmueller.com](http://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, 185 mm <sup>2</sup> , 490 A, 1000 V, Number of connections: 10, Number of levels: 1 |
| Order No.  | <a href="#">2519490000</a>                                                                                                                  |
| Type       | WPD 109 1X185/2X35+3X25+4X16 BL                                                                                                             |
| GTIN (EAN) | 4050118531916                                                                                                                               |
| Qty.       | 1 items                                                                                                                                     |

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## Technical data

## Approvals

Approvals



|                         |                            |
|-------------------------|----------------------------|
| ROHS                    | Conform                    |
| UL File Number Search   | <a href="#">UL Website</a> |
| 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 | 455 g   |                 |             |

## Temperatures

|                                  |                |                                  |                |
|----------------------------------|----------------|----------------------------------|----------------|
| Storage temperature              | -25 °C...55 °C | Ambient temperature              | -50 °C...75 °C |
| Continuous operating temp., min. | -50 °C         | Continuous operating temp., max. | 120 °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)          | 353 A             |
| Wire cross section max. (ATEX) | 185 mm <sup>2</sup> | Max. voltage (IECEX)    | 1100 V            |
| Current (IECEX)                | 353 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 |
| 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 300           | Connection direction                                                                    | on side             |
| Type of connection 2                                                                    | Screw connection    | Type of connection                                                                      | Screw connection    |
| Number of connections                                                                   | 10                  | Clamping range, max.                                                                    | 185 mm <sup>2</sup> |
| Clamping range, min.                                                                    | 1.5 mm <sup>2</sup> | 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 <sup>2</sup> | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. | 150 mm <sup>2</sup> |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 1.5 mm <sup>2</sup> | Wire connection cross section, finely stranded, max.                                    | 0 mm <sup>2</sup>   |
| Wire connection cross section, finely stranded, min.                                    | 1.5 mm <sup>2</sup> | Connection cross-section, stranded, max.                                                | 185 mm <sup>2</sup> |
| Connection cross-section, stranded, min.                                                | 1.5 mm <sup>2</sup> | Wire connection cross-section, solid core, max.                                         | 185 mm <sup>2</sup> |
| Wire connection cross-section, solid core, min.                                         | 1.5 mm <sup>2</sup> |                                                                                         |                     |

### General

|                     |                                |                                         |                       |
|---------------------|--------------------------------|-----------------------------------------|-----------------------|
| Number of poles     | 1                              | Wire connection cross section AWG, max. | kcmil 300             |
| 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 | 185 mm <sup>2</sup>    | Rated voltage                               | 1000 V  |
| Rated AC voltage    | 1000 V                 | Rated DC voltage                            | 1500 V  |
| Nominal current     | 490 A                  | Current at maximum wires                    | 490 A   |
| Standards           | IEC 60947-7-1, UL 1059 | Power loss in accordance with IEC 60947-7-x | 12.50 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

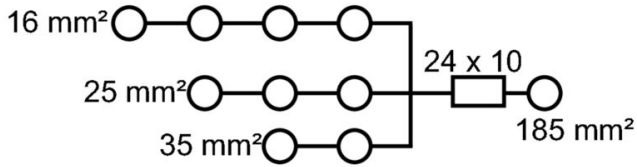
|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 8.0    | EC000897    | ETIM 9.0    | EC000897    |
| ETIM 10.0   | EC000897    | ECLASS 14.0 | 27-25-01-19 |
| ECLASS 15.0 | 27-25-01-19 |             |             |

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# Drawings



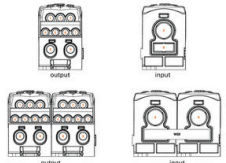
Conductor connection data according to IEC 60947-7-1 (Co)

| Input             | connection point A |            |            | CP** B |        |
|-------------------|--------------------|------------|------------|--------|--------|
|                   | Copper             | Aluminium* | Aluminium* | Copper | Copper |
| 185 mm²           | 19 Nm              | 19 Nm      | 22,6 Nm    |        |        |
| 150 mm²           |                    |            | 22,6 Nm    |        |        |
| 125 mm²           |                    |            | 22,6 Nm    |        |        |
| 90 mm²            |                    |            | 22,6 Nm    |        |        |
| 70 mm²            |                    |            | 22,6 Nm    |        |        |
| 50 mm²            |                    |            | 22,6 Nm    |        |        |
| 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                     | Aluminium* | Aluminium* | Copper                         | Aluminium* | Aluminium* | Copper                 | Aluminium* |
| 35 mm²           |                            |            |            |                                |            |            |                        |            |
| 25 mm²           |                            |            |            | 5,1 Nm                         | 5,1 Nm     | 5,1 Nm     | 2,5 Nm                 | 11,3 Nm    |
| 18 mm²           |                            |            |            | 5,1 Nm                         | 5,1 Nm     | 5,1 Nm     | 2,5 Nm                 | 11,3 Nm    |
| 16 mm²           |                            |            |            | 5,1 Nm                         | 5,1 Nm     | 5,1 Nm     | 2,5 Nm                 | 11,3 Nm    |
| 10 mm²           |                            |            |            | 2 Nm                           | 2 Nm       | 2 Nm       | 2,5 Nm                 | 11,3 Nm    |
| 6 mm²            |                            |            |            | 2 Nm                           | 2 Nm       | 2 Nm       | 2,5 Nm                 | 11,3 Nm    |
| 4 mm²            |                            |            |            | 2 Nm                           | 2 Nm       | 2 Nm       | 2,5 Nm                 | 11,3 Nm    |
| 2,5 mm²          |                            |            |            | 2 Nm                           | 2 Nm       | 2 Nm       | 2,5 Nm                 | 11,3 Nm    |
| 1,5 mm²          |                            |            |            | 2 Nm                           | 2 Nm       | 2 Nm       | 2,5 Nm                 | 11,3 Nm    |
| Stripping length | 12 mm                      |            |            | 12 mm                          |            |            | 19 mm                  |            |
| Allen screw      | M6                         |            |            | M6                             |            |            | M6                     |            |

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



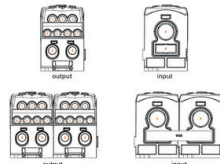
Conductor connection data according to UL 1059 (Al+Cu)

| Input (line)          | connection point A |              |              |              | CP** B |             |
|-----------------------|--------------------|--------------|--------------|--------------|--------|-------------|
|                       | Copper             | Aluminium    | Aluminium    | Aluminium    | Copper | Copper      |
| 1mm² 350              |                    |              |              |              |        |             |
| 1mm² 300              |                    |              |              |              |        |             |
| 1mm² 250              | 249,6 lb in.       | 249,6 lb in. | 388,3 lb in. | 388,3 lb in. |        |             |
| AWG 4/0               |                    |              |              |              |        |             |
| AWG 3/0               |                    |              |              |              |        |             |
| AWG 2/0               |                    |              |              |              |        |             |
| AWG 1/0               |                    |              |              |              |        |             |
| Flat band 24x10 mm    |                    |              |              |              |        | 11,3 lb in. |
| max. current          | 310 A              | 285 A        | 250 A        | 230 A        | 250 A  |             |
| Voltage use B.C. (UR) | 600 V              |              |              |              |        |             |

| Output                | connection point 1 / 2 / 3 |           |           | connection point 4 / 5 / 6 / 7 |           |           | connection point 8 / 9 |           |  |
|-----------------------|----------------------------|-----------|-----------|--------------------------------|-----------|-----------|------------------------|-----------|--|
|                       | Copper                     | Aluminium | Aluminium | Copper                         | Aluminium | Aluminium | Copper                 | Aluminium |  |
| AWG 2                 |                            |           |           |                                |           |           |                        |           |  |
| AWG 4                 |                            |           |           |                                |           |           |                        |           |  |
| AWG 6                 |                            |           |           |                                |           |           |                        |           |  |
| 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                |                            |           |           |                                |           |           |                        |           |  |
| AWG 18                |                            |           |           |                                |           |           |                        |           |  |
| max. current          | 65 A                       | 65 A      | 65 A      | 50 A                           | 65 A      | 65 A      | 115 A                  | 65 A      |  |
| Voltage use B.C. (UR) | 600 V                      |           |           |                                |           |           |                        |           |  |

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



CSA rating data according to CSA 22.2 No. 150

| Certificate No. (CSA) | Input  |            | Output       |        |
|-----------------------|--------|------------|--------------|--------|
|                       | CP** A | CP** 1/2/3 | CP** 4/5/6/7 | CP** B |
| 1mm² 250              |        |            |              |        |
| 1mm² 200              |        |            |              |        |
| AWG 2/0               | 19 Nm  |            |              |        |
| AWG 2                 |        |            |              |        |
| AWG 4                 |        |            |              |        |
| AWG 6                 |        |            |              |        |
| AWG 8                 |        |            |              |        |
| AWG 10                |        |            |              |        |
| AWG 12                |        |            |              |        |
| AWG 14                |        |            |              |        |
| AWG 16                |        |            |              |        |
| AWG 18                |        |            |              |        |
| max. current          | 255 A  | 65 A       | 65 A         | 115 A  |
| Voltage use C (CSA)   | 600 V  |            |              |        |

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

