

WPD 106 1X70/2X25+3X16 GY**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 | W-Series, Distribution block, Rated cross-section: Screw connection, Terminal rail / mounting plate |
| Order No. | 1562210000 |
| Type | WPD 106 1X70/2X25+3X16 GY |
| GTIN (EAN) | 4050118385281 |
| Qty. | 1 pc(s). |

Creation date July 14, 2023 1:43:24 PM CEST

Catalogue status 07.07.2023 / We reserve the right to make technical changes.

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Technical data

Dimensions and weights

| | | | |
|------------|---------|-----------------|------------|
| Depth | 50.4 mm | Depth (inches) | 1.984 inch |
| Height | 74.5 mm | Height (inches) | 2.933 inch |
| Width | 39.5 mm | Width (inches) | 1.555 inch |
| Net weight | 200 g | | |

Temperatures

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

Material data

| | | | |
|---------------------------|-------|--------|------------|
| Material | Wemid | Colour | Light Grey |
| UL 94 flammability rating | V-0 | | |

Rating data IECEx/ATEX

| | | | |
|--------------------------------|--------------------|-------------------------|-------------------|
| Certificate No. (ATEX) | CNEX16ATEX0005U | Certificate No. (IECEX) | IECEXCNEX16.0005U |
| Max. voltage (ATEX) | 880 V | Current (ATEX) | 160 A |
| Wire cross section max. (ATEX) | 50 mm ² | Max. voltage (IECEX) | 880 V |
| Current (IECEX) | 160 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 | PE connection | No |
| Rail | Mounting plate, TS 35 | N-function | Yes |
| PE function | No | PEN function | No |

Additional technical data

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

CSA rating data

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

Conductors for clamping (rated connection)

| | | | |
|----------------------|---------|--------------------|------------------|
| Connection direction | on side | Type of connection | Screw connection |
|----------------------|---------|--------------------|------------------|

General

| | | | |
|---------------------|--------------------------------|-----------------|------------------------|
| Installation advice | Terminal rail / mounting plate | Number of poles | 1 |
| Rail | Mounting plate, TS 35 | Standards | IEC 60947-7-1, UL 1059 |

Data sheet

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Technical data

Rating data

| | | | |
|------------------|------------------------|------------------|---------|
| Rated voltage | 1,000 V | Rated AC voltage | 1,000 V |
| Rated DC voltage | 1,500 V DC | Rated current | 215 A |
| Standards | IEC 60947-7-1, UL 1059 | | |

UL rating data

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

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC000897 | ETIM 7.0 | EC000897 |
| ETIM 8.0 | 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 |

Environmental Product Compliance

| | |
|------------|--------------------------------------|
| REACH SVHC | Lead 7439-92-1 |
| SCIP | 9b5f0838-1f0b-4c14-9fc7-3f5e6ee75be2 |

Important note

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

Approvals

Approvals



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

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Technical data

Downloads

| | |
|---|--|
| Approval/Certificate/Document of Conformity | Attestation of Conformity CB Certificate ATEX Certificate IECEX Certificate EAC certificate VDE Certificate CCC Ex Certificate DNV Certificate UKCA Ex Certificate CE Declaration of Conformity CE Declaration of Conformity all terminals UKCA declaration of conformity |
| Engineering Data | CAD data – STEP |
| Engineering Data | WSCAD, EPLAN |
| User Documentation | StorageConditionsTerminalBlocks DATA SHEET WPD 106 NTI WPD 106 |
| Catalogues | Catalogues in PDF-format |
| Brochures | |

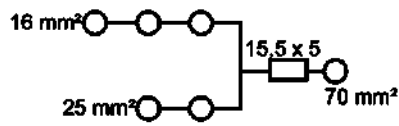
Data sheet

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Drawings



Power distribution
Screw connection

W-Series
WPD 106 1X70/2X25+3X16 GY



| | |
|-------------------------------|-------------------|
| Width / Height / Depth | mm |
| max. current / max. conductor | A/mm ² |
| max. clamping range | mm ² |

Technical data

| | | |
|--|--------------------|-----------------|
| Rated data | | |
| Rated voltage | | V |
| Rated current | | A |
| for wire cross-section | 70 mm ² | mm ² |
| Rated impulse withstand voltage / Pollution severity | | |
| Overvoltage category / UL 94 flammability rating | | |
| Approvals | | |
| Clamped conductors (H05V/H07V) | | |
| Solid / Stranded | 70 mm ² | mm ² |
| | 25 mm ² | mm ² |
| | 16 mm ² | mm ² |
| Flexible with ferrule | 70 mm ² | mm ² |
| | 25 mm ² | mm ² |
| | 16 mm ² | mm ² |
| Stripping length / Blade size | 70 mm ² | mm/- |
| | 25 mm ² | mm/- |
| | 16 mm ² | mm/- |
| Tightening torque | | Nm |
| Note | | |

Ordering data

| | |
|----------------|-------|
| Version | |
| | grey |
| | blue |
| | red |
| | black |
| Note | |

Accessories

| | |
|-------------------------|------------|
| Cross connection | |
| | 2-pole |
| End bracket | |
| | dark beige |
| | dark beige |
| Screwdriver | |
| | SET |

WPD 106 **70 mm²**



| | |
|------------------|--|
| 39.5 / 50.4 / 70 | |
| 192 / 70 | |
| 10...70 | |

IEC 60947-7-1 (Cu), UL 1059 (Cu+Al)

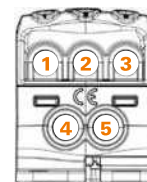
| IEC | UL | CSA | EN 60079-7 |
|-----------|--------------|--------------|------------|
| 1000 | 600 | 600 | 550 |
| 192 | 160 | 175 | 160 |
| 70 | AWG 10...2/0 | AWG 10...2/0 | 70 |
| 8 kV / 3 | | | |
| III / V-0 | | | |

| | |
|--|--|
| Rated connection | |
| 10...70 / 10...70 | |
| 2.5...25 / 2.5...25 | |
| 1.5...16 / 1.5...16 | |
| 6...50 | |
| 1.5...16 | |
| 1.5...10 | |
| 19 / M8 | |
| 14 / M6 | |
| 12 / M6 | |
| see appendix at the end of the chapter | |

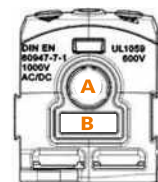


| Type | Qty. | Order No. |
|---------------------------|------|------------|
| WPD 106 1x70/2x25+3x16 GY | 1 | 1562210000 |
| WPD 106 1x70/2x25+3x16 BL | 1 | 2518570000 |
| WPD 106 1x70/2x25+3x16 RD | 1 | 2725340000 |
| WPD 106 1x70/2x25+3x16 BK | 1 | 2725440000 |

| Type | Qty. | Order No. |
|-------------------|------|------------|
| WQB WPD X06/2 | 20 | 1561940000 |
| WEW 35/2 | 100 | 1061200000 |
| AEB 35 SC/1 | 50 | 1991920000 |
| SDK PZ2 X 100 | 1 | 2749450000 |
| SK WSD-S 1,5-10,0 | 1 | 9008850000 |



output

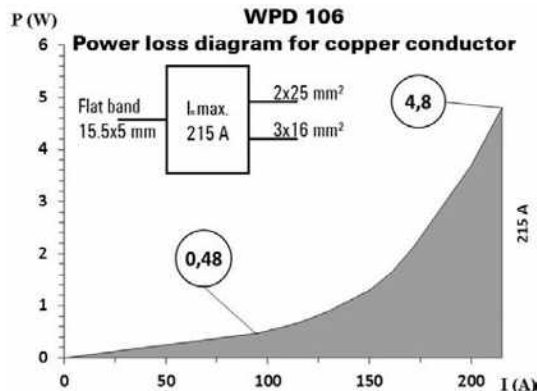


input

Conductor connection data according to IEC 60947-7-1 (Cu), UL 1059 (Cu+Al)

| Input | connection point A | | | | CP** B |
|---------------------|--------------------|-------|------------|---------|--------|
| | Copper | | Aluminium* | | Copper |
| 70 mm ² | | | | | |
| 50 mm ² | 10 Nm | 10 Nm | 13,6 Nm | 13,6 Nm | |
| 35 mm ² | | | | | |
| 25 mm ² | | | | | |
| 16 mm ² | | | | | |
| 10 mm ² | 2 Nm | | | | |
| 6 mm ² | | | | | |
| Flat band 15,5x5 mm | 19 mm | | | | 17 mm |
| Stripping lengths | M8 | | | | M5 |
| Allen screw | | | | | |

* Values according to UL 1059 ** CP - connection point



| Output | connection point 1/2/3 | | | | connection point 4/5 | | | |
|---------------------|------------------------|------|------------|--------|----------------------|--------|------------|--|
| | Copper | | Aluminium* | | Copper | | Aluminium* | |
| 25 mm ² | | | | | | | | |
| 16 mm ² | 2 Nm | 2 Nm | 5,1 Nm | 2,5 Nm | 2,5 Nm | 5,1 Nm | 5,1 Nm | |
| 10 mm ² | | | | | | | | |
| 6 mm ² | | | | | | | | |
| 4 mm ² | | | | | | | | |
| 2,5 mm ² | 12 mm | M6 | | | 14 mm | M6 | | |
| 1,5 mm ² | | | | | | | | |
| Stripping lengths | | | | | | | | |
| Allen screw | | | | | | | | |

* Values according to UL 1059



UL Rating data according to UL 1059

| Certificate no. (UR) | XCFR2.E60693 | | | | |
|-----------------------|--------------------|-------------|--------------|------------|--------|
| | connection point A | | | | CP** B |
| Input (line) | Copper | | Aluminium | | Copper |
| AWG 2/0 | 88.5 Lb In. | 88.5 Lb In. | 120.4 Lb In. | 100 Lb In. | |
| AWG 1/0 | | | | | |
| AWG 2 | | | | | |
| AWG 4 | | | | | |
| AWG 6 | | | | | |
| AWG 8 | | | | | |
| AWG10 | 17.4 Lb In. | | | | |
| Flat band 15.5x3.2 mm | | | | | |
| max. current | 160 A | 150 A | 135 A | 120 A | 160 A |
| Voltage size B,C (UR) | 600 V | | | | |

** CP - connection point

CSA rating data according to CSA 22.2 No. 158

| Certificate No. (CSA) | 269832 | | |
|-----------------------|--------|-----------|---------|
| | Input | Output | |
| | CP* A | CP* 1/2/3 | CP* 4/5 |
| AWG 2/0 | 10 Nm. | | |
| AWG 1/0 | | | |
| AWG 2 | | | |
| AWG 4 | | | |
| AWG 6 | | | |
| AWG 8 | | | |
| AWG10 | 2 Nm | | 2 Nm |
| AWG 12 | | | |
| AWG 14 | | | |
| AWG 16 | | | |
| max. current | 175 A | 50 A | 65 A |
| Voltage size C (CSA) | 600 V | | |

* CP - connection point

| output (load) | connection point 1/2/3 | | | | connection point 4/5 | | | |
|-----------------------|------------------------|-------------|-------------|-------------|----------------------|-------------|-------------|--|
| | Copper | | Aluminium | | Copper | | Aluminium | |
| AWG 4 | 22.6 Lb In. | 22.6 Lb In. | 45.1 Lb In. | 22.6 Lb In. | 22.6 Lb In. | 45.1 Lb In. | 45.1 Lb In. | |
| AWG 6 | | | | | | | | |
| AWG 8 | | | | | | | | |
| AWG 10 | | | | | | | | |
| AWG 12 | | | | | | | | |
| AWG 14 | | | | | | | | |
| AWG 16 | 65 A | 50 A | 50 A | 85 A | 65 A | 65 A | 50 A | |
| max. current | | | | | | | | |
| Voltage size B,C (UR) | 600 V | | | | | | | |

