

**WPD 106 1X70/2X25+3X16 GY****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, Light Grey, 70 mm <sup>2</sup> , 215 A, 1000 V, Number of connections: 6, Number of levels: 1, Mounting plate, TS 35, V-O, Wemid
Order No.	<a href="#">1562210000</a>
Type	WPD 106 1X70/2X25+3X16 GY
GTIN (EAN)	4050118385281
Qty.	1 pc(s).

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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 <sup>2</sup>	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

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

## CSA rating data

Certificate number (cCSAus)	70128467
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## Conductors for clamping (additional connection)

Connection type, additional connection Screw connection

## Conductors for clamping (rated connection)

Connection direction	on side	Number of connections	6
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

Creation date August 28, 2024 9:52:53 AM CEST

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## Technical data

## Rating data

Rated cross-section	70 mm <sup>2</sup>	Rated voltage	1,000 V
Rated AC voltage	1,000 V	Rated DC voltage	1,500 V
Rated current	215 A	Standards	IEC 60947-7-1, UL 1059

## UL rating data

Certificate No. (cURus)	E60693
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## Classifications

ETIM 6.0	EC000897	ETIM 7.0	EC000897
ETIM 8.0	EC000897	ETIM 9.0	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	ECLASS 13.0	27-25-01-19
ECLASS 14.0	27-25-01-19		

## Environmental Product Compliance

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

## Important note

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

Approvals



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

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[www.weidmueller.com](http://www.weidmueller.com)**Technical data****Downloads**

Approval/Certificate/Document of Conformity [Attestation of Conformity](#)  
[UKCA Ex Attestation of Conformity](#)  
[CB Certificate](#)  
[ATEX Certificate](#)  
[IECEX Certificate](#)  
[VDE Certificate](#)  
[CCC Ex Certificate](#)  
[DNV Certificate](#)  
[UKCA Ex Certificate](#)  
[CE Declaration of Conformity](#)  
[UKCA declaration of conformity](#)  
[Confirmation of Standards EN 45545-2\\_2020-10](#)

Engineering Data [CAD data – STEP](#)

User Documentation [StorageConditionsTerminalBlocks](#)  
[DATA SHEET WPD 106](#)  
[NTI WPD 106](#)  
[Manual - How to connect aluminum wires in WPD-Terminal blocks](#)  
[Torque\\_Conductor\\_Connection\\_Data\\_WPD\\_EN](#)  
[Drehmoment\\_Leiteranschlussdaten\\_WPD\\_DE](#)

Catalogues [Catalogues in PDF-format](#)

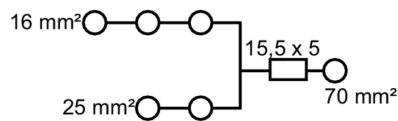
Brochures







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## Drawings



Conductor connection according to IEC 60437-1 (Cu)									
Input	conductor pair A				GPI-B				
	C2-B	C2-A	Aluminum	C2-B					
10 mm	10 mm	12 mm	12 mm	12 mm					
16 mm	16 mm	16 mm	16 mm	16 mm					
20 mm	20 mm	20 mm	20 mm	20 mm					
25 mm	25 mm	25 mm	25 mm	25 mm					
30 mm	30 mm	30 mm	30 mm	30 mm					
40 mm	40 mm	40 mm	40 mm	40 mm					
50 mm	50 mm	50 mm	50 mm	50 mm					
63 mm	63 mm	63 mm	63 mm	63 mm					
80 mm	80 mm	80 mm	80 mm	80 mm					
100 mm	100 mm	100 mm	100 mm	100 mm					
* For 100 kV cable * Maximum length 100 m * Maximum weight 100 kg * Maximum temperature 100 °C									
* Maximum according to IEC 60437-1 (Cu)									

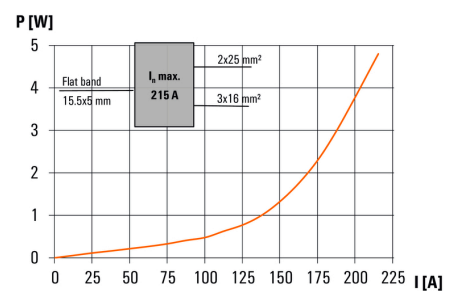
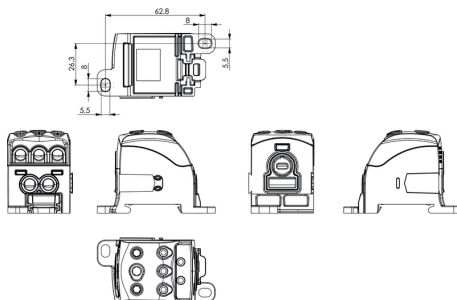
Input	conductor pair C2-B				conductor pair C2-A			
	C2-B	C2-A	C2-B	C2-A	C2-B	C2-A	C2-B	C2-A
10 mm	10 mm	12 mm	12 mm	12 mm	12 mm	12 mm	12 mm	12 mm
16 mm	16 mm	16 mm	16 mm	16 mm	16 mm	16 mm	16 mm	16 mm
20 mm	20 mm	20 mm	20 mm	20 mm	20 mm	20 mm	20 mm	20 mm
25 mm	25 mm	25 mm	25 mm	25 mm	25 mm	25 mm	25 mm	25 mm
30 mm	30 mm	30 mm	30 mm	30 mm	30 mm	30 mm	30 mm	30 mm
40 mm	40 mm	40 mm	40 mm	40 mm	40 mm	40 mm	40 mm	40 mm
50 mm	50 mm	50 mm	50 mm	50 mm	50 mm	50 mm	50 mm	50 mm
63 mm	63 mm	63 mm	63 mm	63 mm	63 mm	63 mm	63 mm	63 mm
80 mm	80 mm	80 mm	80 mm	80 mm	80 mm	80 mm	80 mm	80 mm
100 mm	100 mm	100 mm	100 mm	100 mm	100 mm	100 mm	100 mm	100 mm
* For 100 kV cable * Maximum length 100 m * Maximum weight 100 kg * Maximum temperature 100 °C								
* Maximum according to IEC 60437-1 (Cu)								

[illegible]

**CSA rating data according to CSA 22.2 No. 158**

**200000000 (USA)**

	GP A	GP 1/3	GP A/5
ANSI 10			
ANSI 10			
ANSI 1	10 N/A		
ANSI 4			
ANSI 5			
ANSI 6			
ANSI 14		2 N/A	2 N/A
ANSI 15			
ANSI 16			
ANSI 17			
ANSI 18			
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ANSI 20			
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[www.weidmueller.com](http://www.weidmueller.com)**Accessories****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.	<a href="#">9008330000</a>	Screwdriver, Screwdriver
GTIN (EAN)	4032248056286	
Qty.	1 pc(s).	

**Cross connection****General ordering data**

Type	WQB WPD X06/2	Version
Order No.	<a href="#">1561940000</a>	Cross-connector (terminal), Plugged, grey, 2 15 A, Number of poles: 2,
GTIN (EAN)	4050118367126	Pitch in mm (P): 39.50, Insulated: Yes, Width: 7 mm
Qty.	3 pc(s).	

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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.	<a href="#">9008870000</a>	socket wrenches
GTIN (EAN)	4032248266623	
Qty.	1 pc(s).	

## Power distribution

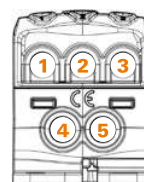
### Screw connection

#### W-Series

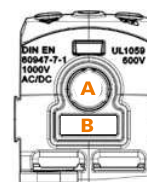
#### WPD 106 1x70/2x25+3x16 GY



WPD 106

70 mm<sup>2</sup>

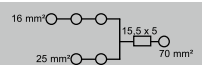
output



input

Width / Height / Depth	mm
max. current / max. conductor	A/mm <sup>2</sup>
max. clamping range	mm <sup>2</sup>

39.5 / 50.4 / 70  
192 / 70  
10...70



#### Technical data

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

#### 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

#### Ordering data

Version	
grey	
blue	
red	
black	

Note

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






#### Accessories

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

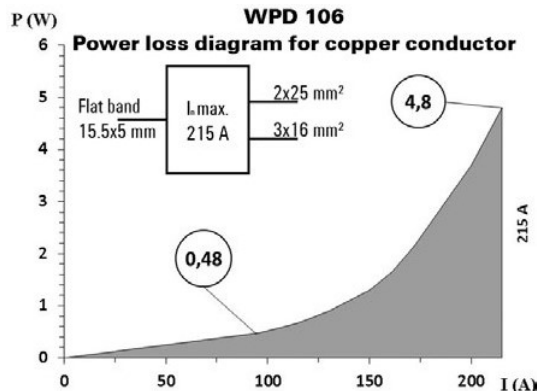
Type	Qty.	Order No.
WQB WPD X06/2	20	1561940000
WEW 35/2	100	1061200000
AEB 35 SC/1	50	1991920000
SDK PZ2 X 100	1	2749450000
SK WSD-S 1,5-10,0	1	9008850000











# 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 <sup>2</sup>	10 Nm	10 Nm	13,6 Nm	13,6 Nm	
50 mm <sup>2</sup>					
35 mm <sup>2</sup>					
25 mm <sup>2</sup>					
16 mm <sup>2</sup>					
10 mm <sup>2</sup>					
6 mm <sup>2</sup>					
Flat band 15,5x5 mm					2 Nm
Stripping lengths	19 mm				17 mm
Allen screw	M8				M5

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








Output	connection point 1/2/3				connection point 4/5			
	Copper		Aluminium*		Copper		Aluminium*	
								
25 mm <sup>2</sup>								
16 mm <sup>2</sup>	2 Nm				2,5 Nm		5,1 Nm	5,1 Nm
10 mm <sup>2</sup>			5,1 Nm					
6 mm <sup>2</sup>		2 Nm						
4 mm <sup>2</sup>								
2.5 mm <sup>2</sup>								
1.5 mm <sup>2</sup>								
Stripping lengths		12 mm				14 mm		
Allen screw		M6				M6		
* Values according to UL 1059								

\* Values according to UL 1059

 Mehrdrähtig   
  Eindrätig   
  Feindrätig mit Aderendhülse   
  Sektorförmig   
  Flachband

## UL Rating data according to UL 1059








Certificate no. (UR)	XCFR2.E60693				CP** B
	connection point A		Aluminium		Copper
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					
Flat band 15.5x3.2 mm					17.4 Lb In.
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		2 Nm	2 Nm
AWG10			
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.	45.1 Lb In.	22.6 Lb In.	22.6 Lb In.	45.1 Lb In.
AWG 6							
AWG 8							
AWG 10							
AWG 12							
AWG 14							
AWG 16							
max. current	65 A	50 A	50 A	85 A	65 A	65 A	50 A
Voltage size B,C (UR)	600 V						

 Stranded   
  Solid   
  Flexible with ferrule   
  Sector shaped   
  Flat band