

WPD 106 1X70/2X25+3X16 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, 70 mm ² , 215 A, 1000 V, Number of connections: 6, Number of levels: 1, Mounting plate, TS 35, V-O, Wemid
Order No.	2518570000
Type	WPD 106 1X70/2X25+3X16 BL
GTIN (EAN)	4050118531824
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	blue
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	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 cross-section, stranded, max.	70 mm ²	Connection direction	on side
Number of connections	6	Type of connection	Screw connection
Type of connection 2	Screw connection	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	50 mm ²
Wire connection cross-section, solid core, max.	25 mm ²		

Creation date December 9, 2024 11:56:00 PM CET

Catalogue status 07.12.2024 / We reserve the right to make technical changes.

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Technical data

General

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

Rating data

Rated cross-section	70 mm ²	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

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c
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.
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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**Technical data****Downloads**

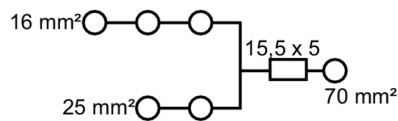
Approval/Certificate/Document of Conformity	Attestation of Conformity
	Attestation of Conformity
	UKCA Ex Attestation of Conformity
	CB Certificate
	ATEX Certificate
	IECEx Certificate
	VDE Certificate
	CCC Ex Certificate
	UKCA Ex Certificate
	DNV Certificate
	UKCA declaration of conformity
	Confirmation 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
Catalogues	Drehmoment_Leiteranschlussdaten_WPD_DE
	Catalogues in PDF-format

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Drawings



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

Input	Conductor cross-section			
	1.2/1.5	2.5	4	6
16 mm²	1.2/1.5	2.5	4	6
25 mm²	1.2/1.5	2.5	4	6
35 mm²	1.2/1.5	2.5	4	6
50 mm²	1.2/1.5	2.5	4	6
70 mm²	1.2/1.5	2.5	4	6
95 mm²	1.2/1.5	2.5	4	6
120 mm²	1.2/1.5	2.5	4	6
150 mm²	1.2/1.5	2.5	4	6
185 mm²	1.2/1.5	2.5	4	6
240 mm²	1.2/1.5	2.5	4	6
300 mm²	1.2/1.5	2.5	4	6
350 mm²	1.2/1.5	2.5	4	6
400 mm²	1.2/1.5	2.5	4	6
500 mm²	1.2/1.5	2.5	4	6
630 mm²	1.2/1.5	2.5	4	6
800 mm²	1.2/1.5	2.5	4	6
1000 mm²	1.2/1.5	2.5	4	6

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

Input	Conductor cross-section			
	1.2/1.5	2.5	4	6
16 mm²	1.2/1.5	2.5	4	6
25 mm²	1.2/1.5	2.5	4	6
35 mm²	1.2/1.5	2.5	4	6
50 mm²	1.2/1.5	2.5	4	6
70 mm²	1.2/1.5	2.5	4	6
95 mm²	1.2/1.5	2.5	4	6
120 mm²	1.2/1.5	2.5	4	6
150 mm²	1.2/1.5	2.5	4	6
185 mm²	1.2/1.5	2.5	4	6
240 mm²	1.2/1.5	2.5	4	6
300 mm²	1.2/1.5	2.5	4	6
350 mm²	1.2/1.5	2.5	4	6
400 mm²	1.2/1.5	2.5	4	6
500 mm²	1.2/1.5	2.5	4	6
630 mm²	1.2/1.5	2.5	4	6
800 mm²	1.2/1.5	2.5	4	6
1000 mm²	1.2/1.5	2.5	4	6

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

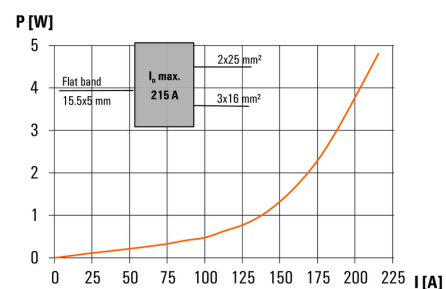
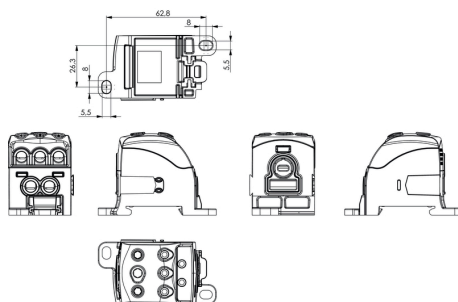
Input	Conductor cross-section			
	1.2/1.5	2.5	4	6
16 mm²	1.2/1.5	2.5	4	6
25 mm²	1.2/1.5	2.5	4	6
35 mm²	1.2/1.5	2.5	4	6
50 mm²	1.2/1.5	2.5	4	6
70 mm²	1.2/1.5	2.5	4	6
95 mm²	1.2/1.5	2.5	4	6
120 mm²	1.2/1.5	2.5	4	6
150 mm²	1.2/1.5	2.5	4	6
185 mm²	1.2/1.5	2.5	4	6
240 mm²	1.2/1.5	2.5	4	6
300 mm²	1.2/1.5	2.5	4	6
350 mm²	1.2/1.5	2.5	4	6
400 mm²	1.2/1.5	2.5	4	6
500 mm²	1.2/1.5	2.5	4	6
630 mm²	1.2/1.5	2.5	4	6
800 mm²	1.2/1.5	2.5	4	6
1000 mm²	1.2/1.5	2.5	4	6

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

Input	Conductor cross-section			
	1.2/1.5	2.5	4	6
16 mm²	1.2/1.5	2.5	4	6
25 mm²	1.2/1.5	2.5	4	6
35 mm²	1.2/1.5	2.5	4	6
50 mm²	1.2/1.5	2.5	4	6
70 mm²	1.2/1.5	2.5	4	6
95 mm²	1.2/1.5	2.5	4	6
120 mm²	1.2/1.5	2.5	4	6
150 mm²	1.2/1.5	2.5	4	6
185 mm²	1.2/1.5	2.5	4	6
240 mm²	1.2/1.5	2.5	4	6
300 mm²	1.2/1.5	2.5	4	6
350 mm²	1.2/1.5	2.5	4	6
400 mm²	1.2/1.5	2.5	4	6
500 mm²	1.2/1.5	2.5	4	6
630 mm²	1.2/1.5	2.5	4	6
800 mm²	1.2/1.5	2.5	4	6
1000 mm²	1.2/1.5	2.5	4	6

CSA rating data according to CSA 22.2 No. 158

Input	Conductor cross-section			
	1.2/1.5	2.5	4	6
16 mm²	1.2/1.5	2.5	4	6
25 mm²	1.2/1.5	2.5	4	6
35 mm²	1.2/1.5	2.5	4	6
50 mm²	1.2/1.5	2.5	4	6
70 mm²	1.2/1.5	2.5	4	6
95 mm²	1.2/1.5	2.5	4	6
120 mm²	1.2/1.5	2.5	4	6
150 mm²	1.2/1.5	2.5	4	6
185 mm²	1.2/1.5	2.5	4	6
240 mm²	1.2/1.5	2.5	4	6
300 mm²	1.2/1.5	2.5	4	6
350 mm²	1.2/1.5	2.5	4	6
400 mm²	1.2/1.5	2.5	4	6
500 mm²	1.2/1.5	2.5	4	6
630 mm²	1.2/1.5	2.5	4	6
800 mm²	1.2/1.5	2.5	4	6
1000 mm²	1.2/1.5	2.5	4	6



Power distribution

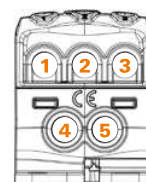
Screw connection

W-Series

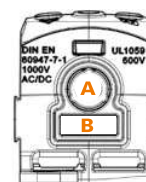
WPD 106 1x70/2x25+3x16 GY



WPD 106

70 mm²

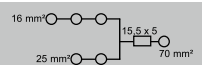
output



input

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

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 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
	70 mm ²	mm ²
Flexible with ferrule	25 mm ²	mm ²
	16 mm ²	mm ²
	70 mm ²	mm/-
	25 mm ²	mm/-
Stripping length / Blade size	70 mm ²	mm/-
	25 mm ²	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

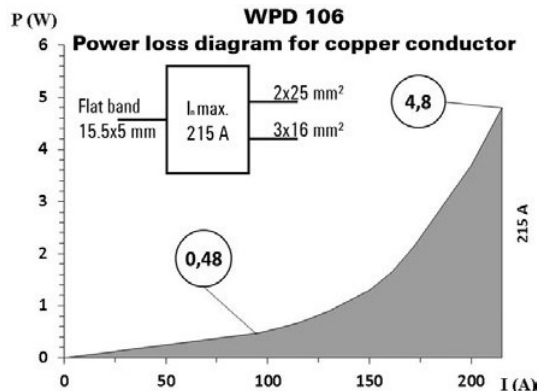
Cross connection	
	2-pole
End bracket	
	dark beige
	dark beige
Screwdriver	
	SET

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 ²	10 Nm				
50 mm ²					
35 mm ²					
25 mm ²					
16 mm ²					
10 mm ²					
6 mm ²					
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 ²	2 Nm				2,5 Nm				
16 mm ²									
10 mm ²		2 Nm	5,1 Nm			2,5 Nm	5,1 Nm		5,1 Nm
6 mm ²									
4 mm ²									
2.5 mm ²									
1.5 mm ²									
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.				
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.			
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