Data sheet

WPD 109 1X185/2X35+3X25+4X16 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	Potential distributor terminal, Screw connection, Light Grey, 185 mm², 490 A, 1000 V, Number of connections: 10, Number of levels: 1
Order No.	1562090000
Type	WPD 109 1X185/2X35+3X25+4X16 GY
GTIN (EAN)	4050118384895
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	454 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	Light Grey
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 mm²	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	PE connection	No
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 300
Connection direction	on side
Type of connection 2	Screw connection
Type of connection	Screw connection
Number of connections	10
Clamping range, max.	185 mm²
Clamping range, min.	1.5 mm²
Wire connection cross section AWG, min.	AWG 16
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	1.5 mm²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	150 mm²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	1.5 mm²
Wire connection cross section, finely stranded, max.	0 mm²
Wire connection cross section, finely stranded, min.	1.5 mm²
Connection cross-section, stranded, max.	185 mm²
Connection cross-section, stranded, min.	1.5 mm²
Wire connection cross-section, solid core, max.	185 mm²
Wire connection cross-section, solid core, min.	1.5 mm²
Clampable conductor	Connection specification: Screw connection

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 mm²	Rated voltage	1000 V
Rated AC voltage	1000 V	Rated DC voltage	1500 V

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Technical data

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.

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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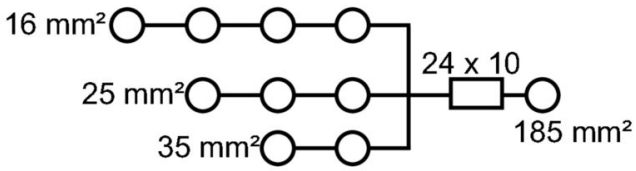
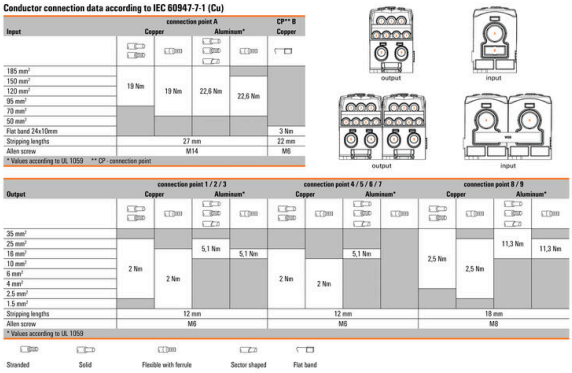
Drawings





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

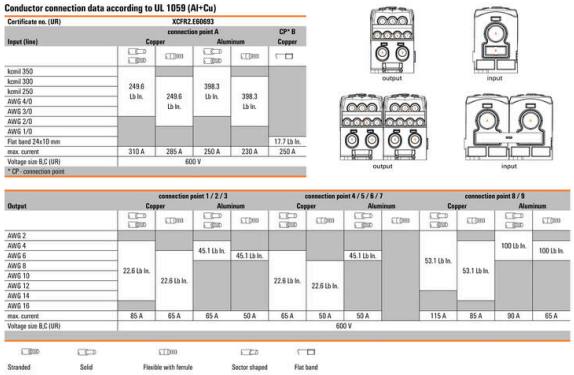
Input	connection point A Copper	connection point A Aluminum*	CP** B Copper
185 mm²	19 Nm	19 Nm	22,6 Nm	22,6 Nm	
150 mm²					
120 mm²					
95 mm²					
70 mm²					
50 mm²					
Flat band 24x10mm					3 Nm
Stripping lengths	27 mm				22 mm
Allen screw	M14				M6

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

Output	connection point 1 / 2 / 3 Copper	connection point 1 / 2 / 3 Aluminum*	connection point 4 / 5 / 6 / 7 Copper	connection point 4 / 5 / 6 / 7 Aluminum*	connection point 8 / 9 Copper	connection point 8 / 9 Aluminum*
35 mm²	2 Nm	5,1 Nm	2 Nm	5,1 Nm	2,5 Nm	11,3 Nm
25 mm²						
16 mm²						
10 mm²						
6 mm²						
4 mm²						
2,5 mm²						
1,5 mm²						
Stripping lengths	12 mm		12 mm		18 mm	
Allen screw	M6		M6		M8	

* Values according to UL 1059

Stranded Solid Flexible with ferrule Sector shaped Flat band



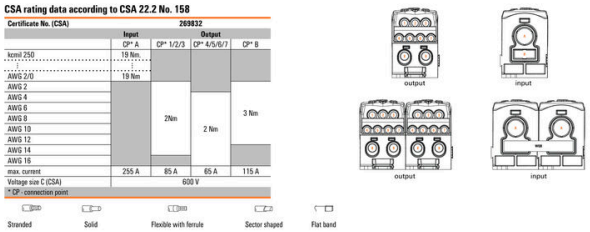
Conductor connection data according to UL 1059 (Al+Cu)

Certificate no. (UR)	XCFR2.E60693 connection point A Copper	XCFR2.E60693 connection point A Aluminum	CP* B Copper
Input (line)			
kcmil 350	249.6 Lb In.	398.3 Lb In.	398.3 Lb In.	
kcmil 300				
kcmil 250		249.6 Lb In.		
AWG 4/0				
AWG 3/0				
AWG 2/0				
AWG 1/0				
Flat band 24x10 mm				17.7 Lb In.
max. current	310 A	285 A	250 A	230 A	250 A
Voltage size B,C (UR)	600 V				

* CP - connection point

Output	connection point 1 / 2 / 3 Copper	connection point 1 / 2 / 3 Aluminum	connection point 4 / 5 / 6 / 7 Copper	connection point 4 / 5 / 6 / 7 Aluminum	connection point 8 / 9 Copper	connection point 8 / 9 Aluminum
AWG 2	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.	53.1 Lb In.	53.1 Lb In.	100 Lb In.	100 Lb In.
AWG 4											
AWG 6											
AWG 8											
AWG 10											
AWG 12											
AWG 14											
AWG 16											
max. current	85 A	85 A	65 A	50 A	65 A	50 A	50 A	115 A	85 A	90 A	65 A
Voltage size B,C (UR)	600 V										

Stranded Solid Flexible with ferrule Sector shaped Flat band

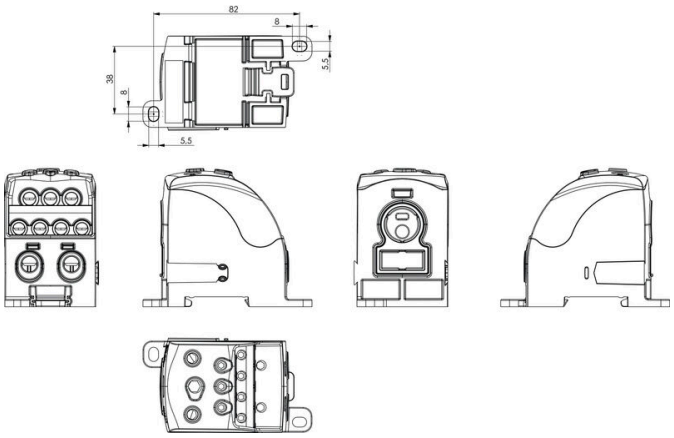


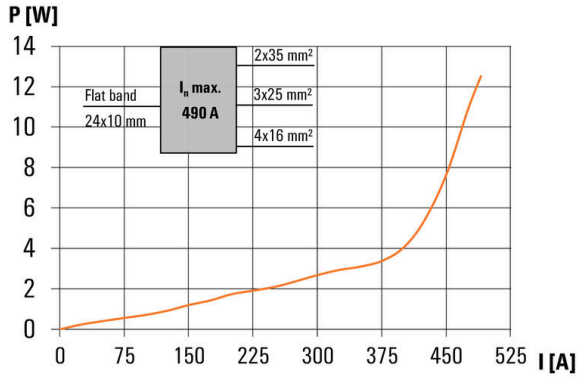
CSA rating data according to CSA 22.2 No. 158

Certificate No. (CSA)	269832 Input CP* A	Output CP* 1/2/3	Output CP* 4/5/6/7	Output CP* B
kcmil 250	19 Nm	2Nm	2 Nm	3 Nm
AWG 2/0	19 Nm			
AWG 2				
AWG 4				
AWG 6				
AWG 8				
AWG 10				
AWG 12				
AWG 14				
AWG 16				
max. current	255 A	85 A	65 A	115 A
Voltage size C (CSA)	600 V			

* CP - connection point

Stranded Solid Flexible with ferrule Sector shaped Flat band





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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	

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	