

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 mm ² , 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 pc(s).

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Weidmüller Interface GmbH & Co. KG

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www.weidmueller.com
Technical data
Dimensions and weights

Depth	77 mm	Depth (inches)	3.031 inch
Height	95 mm	Height (inches)	3.74 inch
Width	51.1 mm	Width (inches)	2.012 inch
Net weight	454 g		

Temperatures

Storage temperature	-25 °C...55 °C	Ambient temperature	-5 °C...40 °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)	1100 V	Current (ATEX)	353 A
Wire cross section max. (ATEX)	185 mm ²	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
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)

Clampable conductor	Connection specification	Screw connection
Clamping range, max.	185 mm ²	
Clamping range, min.	1.5 mm ²	
Connection cross-section, stranded, max.	185 mm ²	
Connection direction	on side	
Number of connections	10	
Type of connection	Screw connection	

Creation date May 15, 2025 11:01:53 PM CEST

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Technical data

Type of connection 2	Screw connection
Wire connection cross section AWG, max.	kcmil 300
Wire connection cross section AWG, min.	AWG 16
Wire connection cross section, finely stranded, max.	0 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	150 mm ²
Wire connection cross-section, solid core, max.	185 mm ²

General

Installation advice	Terminal rail / mounting plate	Number of poles	1
Rail	Mounting plate, TS 35	Standards	IEC 60947-7-1, UL 1059
Wire connection cross section AWG, max.	kcmil 300	Wire connection cross section AWG, min.	AWG 16

Rating data

Rated cross-section	185 mm ²	Rated voltage	1,000 V
Rated AC voltage	1,000 V	Rated DC voltage	1,500 V
Rated 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	12.5 W

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
ETIM 10.0	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
ECLASS 15.0	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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Technical data

Approvals

Approvals



Approvals MAMID

https://mdcop.weidmueller.com/mediadelivery/rendition/900_319217/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319221/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319213/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319230/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319234/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319240/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319260/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319263/-T1z1mm-S800/

ROHS

Conform

UL File Number Search

UL Website

Certificate No. (cURus)

E60693

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](#)
[UKCA Ex Certificate](#)
[DNV 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 109](#)
[NTI WPD 109](#)
[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](#)

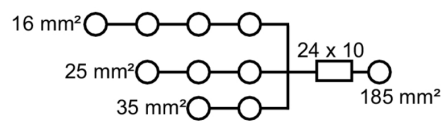
Brochures

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

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Drawings



Conductor connection data according to IEC 60847-1 (24)

Input	connection point A		connection point B	
	Conductor	Terminal	Conductor	Terminal
185 mm²	C 230	C 230	C 230	C 230
150 mm²	C 230	C 230	C 230	C 230
120 mm²	C 230	C 230	C 230	C 230
95 mm²	C 230	C 230	C 230	C 230
70 mm²	C 230	C 230	C 230	C 230
50 mm²	C 230	C 230	C 230	C 230
35 mm²	C 230	C 230	C 230	C 230
25 mm²	C 230	C 230	C 230	C 230
16 mm²	C 230	C 230	C 230	C 230
10 mm²	C 230	C 230	C 230	C 230
6 mm²	C 230	C 230	C 230	C 230
4 mm²	C 230	C 230	C 230	C 230
2.5 mm²	C 230	C 230	C 230	C 230
1.5 mm²	C 230	C 230	C 230	C 230
0.75 mm²	C 230	C 230	C 230	C 230
0.35 mm²	C 230	C 230	C 230	C 230
0.18 mm²	C 230	C 230	C 230	C 230

Conductor connection data according to IEC 60847-1 (24)

Input	connection point 1 (2/3)		connection point 2 (3/4)	
	Conductor	Terminal	Conductor	Terminal
185 mm²	C 230	C 230	C 230	C 230
150 mm²	C 230	C 230	C 230	C 230
120 mm²	C 230	C 230	C 230	C 230
95 mm²	C 230	C 230	C 230	C 230
70 mm²	C 230	C 230	C 230	C 230
50 mm²	C 230	C 230	C 230	C 230
35 mm²	C 230	C 230	C 230	C 230
25 mm²	C 230	C 230	C 230	C 230
16 mm²	C 230	C 230	C 230	C 230
10 mm²	C 230	C 230	C 230	C 230
6 mm²	C 230	C 230	C 230	C 230
4 mm²	C 230	C 230	C 230	C 230
2.5 mm²	C 230	C 230	C 230	C 230
1.5 mm²	C 230	C 230	C 230	C 230
0.75 mm²	C 230	C 230	C 230	C 230
0.35 mm²	C 230	C 230	C 230	C 230
0.18 mm²	C 230	C 230	C 230	C 230

Conductor connection data according to UL 1059 (40-24)

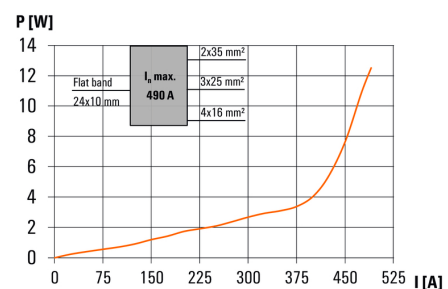
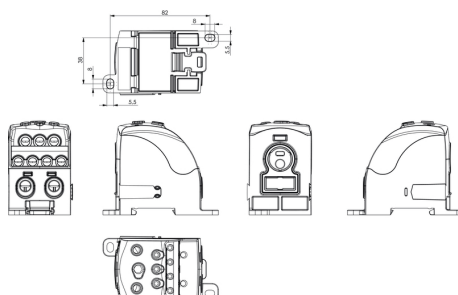
Input (24)	connection point A		connection point B	
	Conductor	Terminal	Conductor	Terminal
185 mm²	C 230	C 230	C 230	C 230
150 mm²	C 230	C 230	C 230	C 230
120 mm²	C 230	C 230	C 230	C 230
95 mm²	C 230	C 230	C 230	C 230
70 mm²	C 230	C 230	C 230	C 230
50 mm²	C 230	C 230	C 230	C 230
35 mm²	C 230	C 230	C 230	C 230
25 mm²	C 230	C 230	C 230	C 230
16 mm²	C 230	C 230	C 230	C 230
10 mm²	C 230	C 230	C 230	C 230
6 mm²	C 230	C 230	C 230	C 230
4 mm²	C 230	C 230	C 230	C 230
2.5 mm²	C 230	C 230	C 230	C 230
1.5 mm²	C 230	C 230	C 230	C 230
0.75 mm²	C 230	C 230	C 230	C 230
0.35 mm²	C 230	C 230	C 230	C 230
0.18 mm²	C 230	C 230	C 230	C 230

Conductor connection data according to UL 1059 (40-24)

Input	connection point 1 (2/3)		connection point 2 (3/4)	
	Conductor	Terminal	Conductor	Terminal
185 mm²	C 230	C 230	C 230	C 230
150 mm²	C 230	C 230	C 230	C 230
120 mm²	C 230	C 230	C 230	C 230
95 mm²	C 230	C 230	C 230	C 230
70 mm²	C 230	C 230	C 230	C 230
50 mm²	C 230	C 230	C 230	C 230
35 mm²	C 230	C 230	C 230	C 230
25 mm²	C 230	C 230	C 230	C 230
16 mm²	C 230	C 230	C 230	C 230
10 mm²	C 230	C 230	C 230	C 230
6 mm²	C 230	C 230	C 230	C 230
4 mm²	C 230	C 230	C 230	C 230
2.5 mm²	C 230	C 230	C 230	C 230
1.5 mm²	C 230	C 230	C 230	C 230
0.75 mm²	C 230	C 230	C 230	C 230
0.35 mm²	C 230	C 230	C 230	C 230
0.18 mm²	C 230	C 230	C 230	C 230

CSA rating data according to CSA 22.2 No. 158

Input	connection point A		connection point B	
	Conductor	Terminal	Conductor	Terminal
185 mm²	C 230	C 230	C 230	C 230
150 mm²	C 230	C 230	C 230	C 230
120 mm²	C 230	C 230	C 230	C 230
95 mm²	C 230	C 230	C 230	C 230
70 mm²	C 230	C 230	C 230	C 230
50 mm²	C 230	C 230	C 230	C 230
35 mm²	C 230	C 230	C 230	C 230
25 mm²	C 230	C 230	C 230	C 230
16 mm²	C 230	C 230	C 230	C 230
10 mm²	C 230	C 230	C 230	C 230
6 mm²	C 230	C 230	C 230	C 230
4 mm²	C 230	C 230	C 230	C 230
2.5 mm²	C 230	C 230	C 230	C 230
1.5 mm²	C 230	C 230	C 230	C 230
0.75 mm²	C 230	C 230	C 230	C 230
0.35 mm²	C 230	C 230	C 230	C 230
0.18 mm²	C 230	C 230	C 230	C 230



Power distribution

Screw connection

W-Series

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

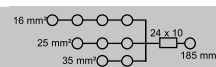


WPD 109

185 mm²

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

55.1 / 77 / 95
353 / 185
50...185



Technical data

Rated data		
Rated voltage	V	
Rated current	A	
for wire cross-section	185 mm ²	mm ²

Rated impulse withstand voltage / Pollution severity

Overvoltage category / UL 94 flammability rating

Approvals

Clamped conductors (H05V/H07V)

Solid / Stranded	185 mm ²	mm ²
	35 mm ²	mm ²
	25 mm ²	mm ²
	16 mm ²	mm ²
Flexible with ferrule	185 mm ²	mm ²
	35 mm ²	mm ²
	25 mm ²	mm ²
	16 mm ²	mm ²
Stripping length / Blade size	185 mm	mm/-
	35 mm	mm/-
	25 mm	mm ²
	16 mm	mm ²
Tightening torque		Nm

Note

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

IEC	UL	CSA	EN 60079-7
1000	600	600	880
353	310	310	353
185	AWG 2/0...kcmil 350	AWG 2/0...kcmil 350	185
8 kV / 3			
III / V-0			

Bemessungsanschluss

70...185 / 70...185
4...35 / 4...35
2.5...25 / 2.5...25
1.5...16 / 1.5...16
50...150
2.5...25
1.5...16
1.5...10
27 / M14
18 / M8
12 / M6
12 / M6
siehe Anhang am Kapitelende

Ordering data

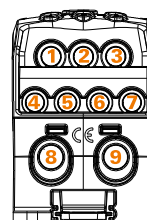
Version	
	grey
	blue
	red
	black
Note	

Type	Qty.	Order No.
WPD 109 1x185/2x35+3x25+4x16 GY	1	1562090000
WPD 109 1x185/2x35+3x25+4x16 BL	1	2519490000
WPD 109 1x185/2x35+3x25+4x16 RD	1	2725270000
WPD 109 1x185/2x35+3x25+4x16 BK	1	2725370000

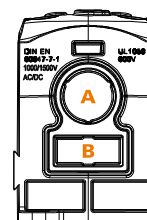
Accessories

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

Type	Qty.	Order No.
WQB WPD X08-09/2	20	1561900000
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

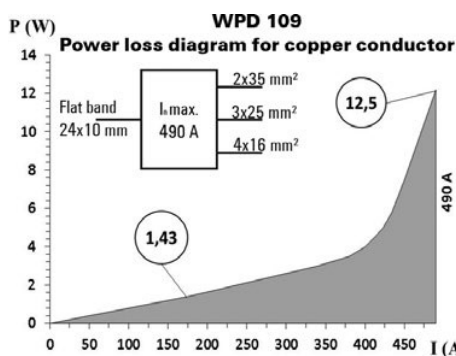


input

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

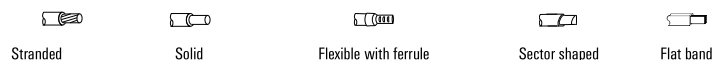
Input	connection point A				CP** B
	Copper		Aluminium*		Copper
					
120 mm ²	19 Nm	19 Nm	22,6 Nm	22,6 Nm	
95 mm ²					
70 mm ²					
50 mm ²					
35 mm ²					
25 mm ²					
Flat band 24x10mm					3 Nm
Stripping lengths	27 mm				22 mm
Allen screw	M14				M6

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



Output	connection point 1 / 2 / 3				connection point 4 / 5 / 6 / 7				connection point 8 / 9			
	Copper		Aluminium*		Copper		Aluminium*		Copper		Aluminium*	
												
35 mm²	2 Nm	2 Nm	5,1 Nm	5,1 Nm	2 Nm	2 Nm			2,5 Nm	2,5 Nm	11,3 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												

* Values according to UL 1059



UL Rating data according to UL 1059

Certificate no. (UR)	XCFR2.E60693				CP* B
	connection point A		Aluminium		Copper
					
kcmil 250	168.2 Lb In.	168.2 Lb In.	200 Lb In.	200 Lb In.	17.7 Lb In.
AWG 4/0					
AWG 3/0					
AWG 2/0					
AWG 1/0					
AWG 2					
AWG 4					
Flat band 24x10 mm					
max. current	250 A	200 A	155 A	205 A	250 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* 4/5/6/7	CP* B
kcmil 250	19 Nm.	3 Nm	3 Nm	6 Nm
AWG 2	19 Nm			
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

Output	connection point 1 / 2 / 3				connection point 4 / 5 / 6 / 7				connection point 8 / 9			
	Copper		Aluminium		Copper		Aluminium		Copper		Aluminium	
												
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.			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	65 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											

