

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

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com



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, red, 185 mm ² , 490 A, 1000 V, Number of connections: 10, Number of levels: 1
Order No.	2725270000
Type	WPD 109 1X185/2X35+3X25+4X16 RD
GTIN (EAN)	4050118796612
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	e1c310ef-6b67-4efa-80a6-d307472f4de9

Material data

Basic material	Wemid	Colour	red
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	Mounting rail	Mounting plate, TS 35
N-function	Yes	PE function	No
PEN function	No		

Additional technical data

Open sides	closed	Explosion-tested version	Yes
Type of mounting	Snap-on		

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Technical data
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 mm ²
Clamping range, min.	1.5 mm ²	Wire connection cross section AWG, min.	AWG 16
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	1.5 mm ²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	70 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	1.5 mm ²	Wire connection cross section, finely stranded, max.	0 mm ²
Wire connection cross section, finely stranded, min.	1.5 mm ²	Connection cross-section, stranded, max.	185 mm ²
Connection cross-section, stranded, min.	1.5 mm ²	Wire connection cross-section, solid core, max.	185 mm ²
Wire connection cross-section, solid core, min.	1.5 mm ²		

General

Number of poles	1	Wire connection cross section AWG, max.	kcmil 300
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 mm ²	Rated voltage	1000 V
Rated AC voltage	1000 V	Rated DC voltage	1500 V
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 (Co)

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

Output	connection point 1 / 2 / 3			connection point 4 / 5 / 6 / 7			connection point 8 / 9	
	Copper	Aluminium*	Aluminium*	Copper	Aluminium*	Aluminium*	Copper	Aluminium*
35 mm²								
25 mm²								
18 mm²								
16 mm²								
8 mm²	2 Nm			2 Nm			2,5 Nm	
4 mm²								
2,5 mm²								
1,5 mm²								
Stripping lengths	12 mm			12 mm			19 mm	
Allen screw	M6			M6			M6	

* Values according to UL 1959 ** CP: connection point

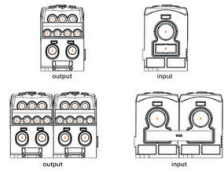


Conductor connection data according to UL 1059 (Al+Cu)

Input (line)	connection point A			CP** B	
	Copper	Aluminium*	Aluminium*	Copper	Aluminium*
1mm² 350					
1mm² 300					
1mm² 250	249,6 lb in.	249,6 lb in.	388,3 lb in.	388,3 lb in.	
AWG 4/0					
AWG 3/0					
AWG 2/0					
AWG 1/0					
Flat band 14x10 mm					11,7 lb in.
max. current	310 A	285 A	250 A	230 A	250 A
Voltage size B.C. (UR)	600 V				

Output	connection point 1 / 2 / 3			connection point 4 / 5 / 6 / 7			connection point 8 / 9	
	Copper	Aluminium*	Aluminium*	Copper	Aluminium*	Aluminium*	Copper	Aluminium*
AWG 2								
AWG 4								
AWG 6								
AWG 8								
AWG 10	22,8 lb in.			22,8 lb in.				
AWG 12								
AWG 14								
AWG 16								
max. current	65 A	65 A	65 A	50 A	65 A	65 A	115 A	65 A
Voltage size B.C. (UR)	600 V							

* Values according to UL 1959 ** CP: connection point



CSA rating data according to CSA 22.2 No. 150

Certificate No. (CSA)	Input		Output	
	CP** A	CP** 1/2/3	CP** 4/5/6/7	CP** B
1mm² 250				
1mm² 200				
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	65 A	65 A	115 A
Voltage size C (CSA)	600 V			

* Values according to UL 1959 ** CP: connection point

