

Weidmüller Interface GmbH & Co. KG

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W-Series

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

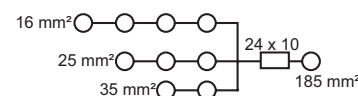


General ordering data

Type	WPD 109 1X185/2X35+3X25+4X16 GY
Order No.	1562090000
Version	W-Series, Phase distributor block, Terminal rail/ mounting plate
GTIN (EAN)	4050118384895
Qty.	1 pc(s)

Colour types

GY (light grey)	1562090000
BL (blue)	2519490000



Dimensions and weights

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

Material data and temperatures

Material body	brass (CuZn39Pb2)
Material housing	PA 6 (Halogen-free)
UL 94 flammability rating	V-0
Continuous operating temp. area	-50 °C - 130 °C

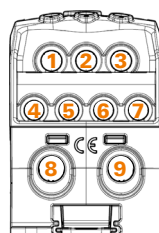
Rating data

Rated cross-section	185 / 35 / 25 / 16 mm²
Rated voltage	1,000 V
Rated current - Copper	353 A (1x185 mm²)
Standards	IEC 60947-7-1
Pollution degree	3

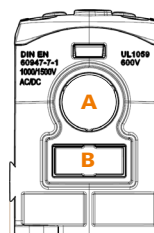
Rated AC voltage	1,000 V AC
Rated DC voltage	1,500 V DC
Max. current - Copper	490 A (Flat band 24x10 mm)
Rated impulse withstand voltage	8 kv
Surge voltage category	III

Conductor connection data

input	connection point A				CP** B
	Copper		Aluminium*		Copper
					
185 mm²	19 Nm				
150 mm²					
70 mm²					
120 mm²		19 Nm	22.6 Nm	22.6 Nm	
95 mm²					
75 mm²					
Flat band 24x10 mm					3 Nm
Stripping lengths	27 mm				22 mm
Allen screw	M14				M6



output

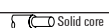


input

output	connection point 1/2/3				connection point 4/5/6/7				connection point 8/9			
	Copper		Aluminium*		Copper		Aluminium*		Copper		Aluminium*	
35 mm²												
25 mm²												
16 mm²			5.1 Nm				5.1 Nm				11.3 Nm	
10 mm²				5.1 Nm				5.1 Nm				11.3 Nm
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

** CP - connection point



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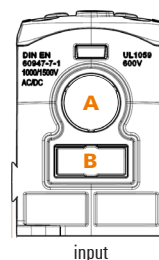
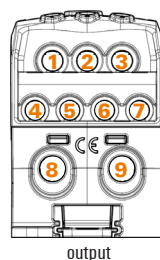
W-Series**WPD 109 1X185/2X35+3X25+4X16****Rating data IECEx/ATEX**

Certificate No. (IECEX)	IECEX CNEX 16.0005U
Max. voltage (IECEX)	880 V (on Terminal rail) 1100 V (on Mounting plate)
Current (IECEX)	353 A

Certificate No. (ATEX)	CNEX 16 ATEX 0005U
Max. voltage (ATEX)	880 V (on Terminal rail) 1100 V (on Mounting plate)
Current (ATEX)	353 A

UL rating data

Certificate No. (UR)	XCFR2.E60693				
Input (line)	connection point A				CP* B
	Copper		Aluminium		Copper
					
kcmil 350					
kcmil 300					
kcmil 250	221.3 Lb In.		200 Lb In.		
AWG 4/0		221.3 Lb In.		200 Lb In.	
AWG 3/0					
AWG 2/0					
Flat band 24x10 mm					17.7 Lb In.
Max. current	310 A	285 A	250 A	230 A	310 A
Voltage size B,C (UR)	600 V				



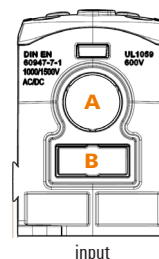
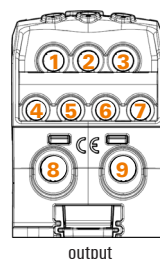
output (load)	connection point 1/2/3				connection point 4/5/6/7				connection point 8/9			
	Copper		Aluminium		Copper		Aluminium		Copper		Aluminium	
												
AWG 2												
AWG 4			45.1 Lb In.				45.1 Lb In.				100 Lb In.	
AWG 6				45.1 Lb In.				45.1 Lb In.				100 Lb In.
AWG 8									53.1 Lb In.			
AWG 10	22.6 Lb In.									53.1 Lb In.		
AWG 12		22.6 Lb In.										
AWG 14					22.6 Lb In.		22.6 Lb In.					
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											

 Stranded
  Solid core
  Finely stranded with wire-end ferrule
  Flat band

CSA rating data

Certificate No. (CSA)	269832			
	input		output	
	CP* A	CP* 1/2/3	CP* 4/5/6/7	CP* 8/9
kcmil 350	25 Nm			
...	25 Nm			
AWG 2				
AWG 4				
AWG 6				
AWG 8				
AWG 10		3 Nm		
AWG 12			3 Nm	
AWG 14				
AWG 16				
Max. current	310 A	85 A	65 A	115 A
Voltage size C (CSA)	600 V			

*CP- connection point



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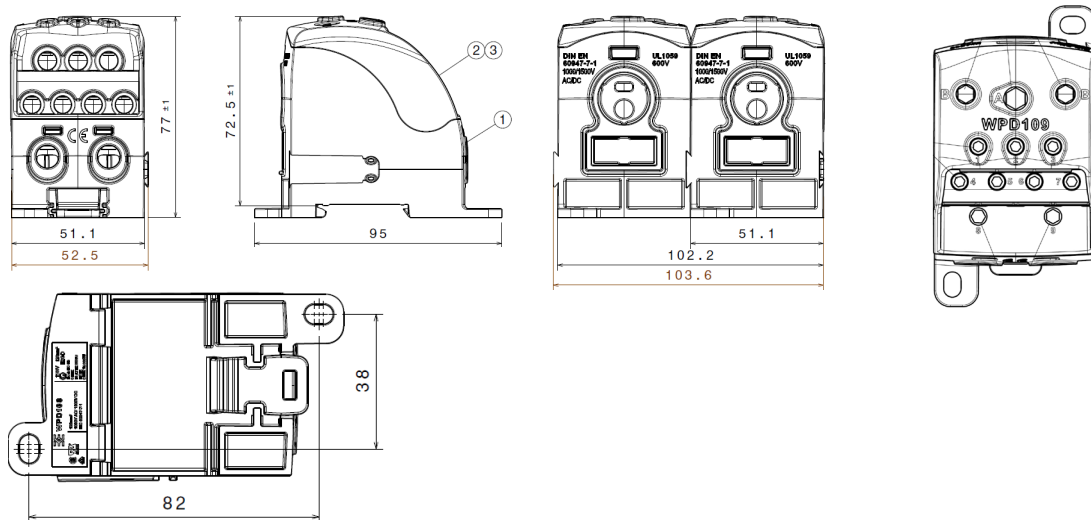
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Drawings



WPD 109 Power loss diagram for copper conductor

