

WPD 102 2X35/2X25 BN**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Product image****Building installation wiring**

For building installations, we offer a complete system that revolves around the 10×3 copper rail and comprises perfectly coordinated components: from installation terminal blocks, neutral conductor terminal blocks and distribution terminal blocks to comprehensive accessories such as busbars and busbar holders.

General ordering data

Version	Potential distributor terminal, Screw connection, brown, 35 mm², 202 A, 1000 V, Number of connections: 4, Number of levels: 1
Order No.	1561650000
Type	WPD 102 2X35/2X25 BN
GTIN (EAN)	4050118366846
Qty.	5 pc(s).

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Technical data

Dimensions and weights

Depth	49.3 mm	Depth (inches)	1.941 inch
Height	55.4 mm	Height (inches)	2.181 inch
Width	22.2 mm	Width (inches)	0.874 inch
Net weight	92 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	brown
UL 94 flammability rating	V-0		

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	TS 35	N-function	No
PE function	No	PEN function	No

Additional technical data

Explosion-tested version	Yes	Installation advice	Terminal rail / mounting plate
Open sides	closed	Snap-on	Yes
Type of mounting	Snap-on	With snap-in pegs	Yes

Conductors for clamping (additional connection)

Connection type, additional connection Screw connection

Conductors for clamping (rated connection)

Clamping range, max.	35 mm ²	Clamping range, min.	2.5 mm ²
Connection cross-section, stranded, max.	35 mm ²	Connection direction	on side
Number of connections	4	Type of connection	Screw connection
Type of connection 2	Screw connection	Wire connection cross section AWG, max.	AWG 4
Wire connection cross section AWG, min.	AWG 14	Wire connection cross section, finely stranded, max.	0 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	25 mm ²	Wire connection cross-section, solid core, max.	35 mm ²

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Technical data

General

Installation advice	Terminal rail / mounting plate	Number of poles	1
Rail	TS 35	Standards	IEC 60947-7-1, IEC 61238-1, VDE 0603-2
Wire connection cross section AWG, max.	AWG 4	Wire connection cross section AWG, min.	AWG 14

Rating data

Rated cross-section	35 mm ²	Rated voltage	1,000 V
Rated AC voltage	1,000 V	Rated DC voltage	1,000 V
Rated current	202 A	Current at maximum wires	202 A
Standards	IEC 60947-7-1, IEC 61238-1, VDE 0603-2		

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

Approvals

Approvals



Approvals MAMID	https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-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_319263/-T1z1mm-S800/
ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E60693

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Technical data

Downloads

Approval/Certificate/Document of Conformity	CB Certificate
	VDE Certificate
	VDE Certificate
	DNV Certificate
	CE Declaration of Conformity
	UKCA declaration of conformity
Engineering Data	Confirmation of Standards EN 45545-2_2020-10
	CAD data – STEP
User Documentation	StorageConditionsTerminalBlocks
	DATA SHEET WPD X02
	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	

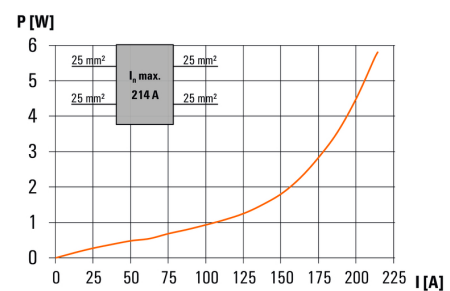
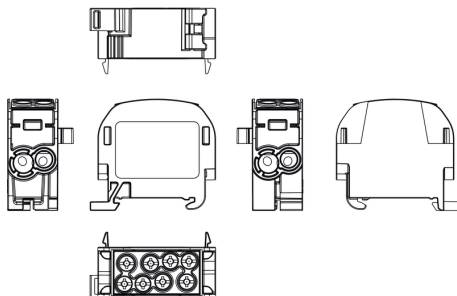
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Diagram illustrating a linear chain of four circles connected by lines. The top two circles are labeled 35 mm^2 , and the bottom two circles are labeled 25 mm^2 .

Conductor connection data according to VDE 0032-3, IEC 60067-1-1 (Cu), IEC 61238-1 (Class A (Cu-Al))									
Alpacer 1 (Alpacer 12)		Alpacer 2		Alpacer 3		Alpacer 4		Alpacer 5	
20 kV (nominal conductor)	25 kV (nominal conductor)	20 kV (nominal conductor)	25 kV (nominal conductor)	20 kV (nominal conductor)	25 kV (nominal conductor)	20 kV (nominal conductor)	25 kV (nominal conductor)	20 kV (nominal conductor)	25 kV (nominal conductor)
10 mm ²	16 mm ²	10 mm ²	16 mm ²	10 mm ²	16 mm ²	10 mm ²	16 mm ²	10 mm ²	16 mm ²
25 mm ²	35 mm ²	25 mm ²	35 mm ²	25 mm ²	35 mm ²	25 mm ²	35 mm ²	25 mm ²	35 mm ²
35 mm ²	50 mm ²	35 mm ²	50 mm ²	35 mm ²	50 mm ²	35 mm ²	50 mm ²	35 mm ²	50 mm ²
50 mm ²	70 mm ²	50 mm ²	70 mm ²	50 mm ²	70 mm ²	50 mm ²	70 mm ²	50 mm ²	70 mm ²
70 mm ²	100 mm ²	70 mm ²	100 mm ²	70 mm ²	100 mm ²	70 mm ²	100 mm ²	70 mm ²	100 mm ²
100 mm ²	150 mm ²	100 mm ²	150 mm ²	100 mm ²	150 mm ²	100 mm ²	150 mm ²	100 mm ²	150 mm ²
150 mm ²	210 mm ²	150 mm ²	210 mm ²	150 mm ²	210 mm ²	150 mm ²	210 mm ²	150 mm ²	210 mm ²
210 mm ²	280 mm ²	210 mm ²	280 mm ²	210 mm ²	280 mm ²	210 mm ²	280 mm ²	210 mm ²	280 mm ²
280 mm ²	350 mm ²	280 mm ²	350 mm ²	280 mm ²	350 mm ²	280 mm ²	350 mm ²	280 mm ²	350 mm ²
350 mm ²	420 mm ²	350 mm ²	420 mm ²	350 mm ²	420 mm ²	350 mm ²	420 mm ²	350 mm ²	420 mm ²
420 mm ²	500 mm ²	420 mm ²	500 mm ²	420 mm ²	500 mm ²	420 mm ²	500 mm ²	420 mm ²	500 mm ²
500 mm ²	560 mm ²	500 mm ²	560 mm ²	500 mm ²	560 mm ²	500 mm ²	560 mm ²	500 mm ²	560 mm ²
560 mm ²	630 mm ²	560 mm ²	630 mm ²	560 mm ²	630 mm ²	560 mm ²	630 mm ²	560 mm ²	630 mm ²
630 mm ²	700 mm ²	630 mm ²	700 mm ²	630 mm ²	700 mm ²	630 mm ²	700 mm ²	630 mm ²	700 mm ²
700 mm ²	780 mm ²	700 mm ²	780 mm ²	700 mm ²	780 mm ²	700 mm ²	780 mm ²	700 mm ²	780 mm ²
780 mm ²	850 mm ²	780 mm ²	850 mm ²	780 mm ²	850 mm ²	780 mm ²	850 mm ²	780 mm ²	850 mm ²
850 mm ²	930 mm ²	850 mm ²	930 mm ²	850 mm ²	930 mm ²	850 mm ²	930 mm ²	850 mm ²	930 mm ²
930 mm ²	1000 mm ²	930 mm ²	1000 mm ²	930 mm ²	1000 mm ²	930 mm ²	1000 mm ²	930 mm ²	1000 mm ²
1000 mm ²	1100 mm ²	1000 mm ²	1100 mm ²	1000 mm ²	1100 mm ²	1000 mm ²	1100 mm ²	1000 mm ²	1100 mm ²
1100 mm ²	1200 mm ²	1100 mm ²	1200 mm ²	1100 mm ²	1200 mm ²	1100 mm ²	1200 mm ²	1100 mm ²	1200 mm ²
1200 mm ²	1300 mm ²	1200 mm ²	1300 mm ²	1200 mm ²	1300 mm ²	1200 mm ²	1300 mm ²	1200 mm ²	1300 mm ²
1300 mm ²	1400 mm ²	1300 mm ²	1400 mm ²	1300 mm ²	1400 mm ²	1300 mm ²	1400 mm ²	1300 mm ²	1400 mm ²
1400 mm ²	1500 mm ²	1400 mm ²	1500 mm ²	1400 mm ²	1500 mm ²	140			

Conductor connection data according to UL 1059 (Al-Cu)					
Certificate no. (UK)		XCFR2.EB0693			
Input line	Line		Load		Aluminum
	Copper	Aluminum	Copper	Aluminum	
					
AWG 6		70 Lb 1/2 in			
AWG 8		53 Lb 1/2 in			53 Lb 1/2 in
AWG 8	31 Lb 1/2 in	53 Lb 1/2 in			35 Lb 1/2 in
AWG 10		31 Lb 1/2 in	22.1 Lb 1/2 in		
AWG 12				22.1 Lb 1/2 in	
AWG 14					
AWG 16					
max. current		125 A	90 A	85 A	65 A
Voltage size B.C (kV)	600 V				
					
Stranded	Solid	Flexible with braid			

CSA Rating data according to CSA 22.2 No. 158				
Certificate no. (cURus)		XCPR2.E60693		
Input (line)	Line	Aluminium	Copper	Aluminium
	Copper			
AWG 4	3.5 Nnn	8 Nnn	3.5 Nnn	6 Nnn
AWG 6		6 Nnn		4 Nnn
AWG 8		4 Nnn		
AWG 10				
AWG 12				
AWG 14				
AWG 16				
max. current	125 A	85 A	85 A	65 A
Voltage size B.C (UR)	600 V			
Standard	Solid	Flexible with female		



Power distribution Screw connection

W-Series

WPD 401 2X25/2X16 4XGY



Application range

WPD 102

35 mm²



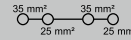
WPD 302

35 mm²



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

22.2 / 49.3 / 55.7
125 / 35
2.5...35



66.6 / 49.3 / 55.7
125 / 35
2.5...35



Technical data

Rated data		
Rated voltage	V	
Rated current	A	
for wire cross-section	35 mm ²	mm ²
Rated impulse withstand voltage / Pollution severity		
Overvoltage category / UL 94 flammability rating		
Approvals		
Clamped conductors (H05V/H07V)		
Solid / Stranded	35 mm ²	mm ²
	25 mm ²	mm ²
Flexible with ferrule	35 mm ²	mm ²
	25 mm ²	mm ²
Stripping length / Blade size	35 mm ²	mm/-
	25 mm ²	mm/-
Tightening torque		Nm
Note		

IEC 60947-7-1, DIN EN 0603-3-1

IEC	UL	CSA	EN 60079-7
1000	600	600	
125	115	125	
35	AWG 14...2	AWG 14...2	
	8 kV / 3		
	III / V-0		
Rated connection			
4...35 / 4...35			
4...35 / 4...35			
2.5...25			
2.5...25			
22 / M6 (+/- PZ2)			
18 / M6 (+/- PZ2)			
see appendix at the end of the chapter			

IEC 60947-7-1, DIN EN 0603-3-1

IEC	UL	CSA	EN 60079-7
1000	600	600	
125	115	125	
35	AWG 14...2	AWG 14...2	
	8 kV / 3		
	III / V-0		
Rated connection			
4...35 / 4...35			
4...35 / 4...35			
2.5...25			
2.5...25			
22 / M6 (+/- PZ2)			
18 / M6 (+/- PZ2)			
see appendix at the end of the chapter			

Ordering data

Version	
	light grey
	blue
	green
	brown
	black
Note	

Type	Qty.	Order No.
WPD 102 2X35/2X25 GY	5	1561680000
WPD 102 2X35/2X25 BL	5	1561640000
WPD 102 2X35/2X25 GN	5	1561670000
WPD 102 2X35/2X25 BN	5	1561650000
WPD 102 2X35/2X25 BK	5	1561630000

Type	Qty.	Order No.
WPD 302 2X35/2X25 3XGY	2	1561740000

Accessories

End bracket	
	dark beige
	dark beige
Screwdriver	

Type	Qty.	Order No.
WEW 35/2	100	1061200000
AEB 35 SC/1	50	1991920000
SDK PZ2	1	9008540000

Type	Qty.	Order No.
WEW 35/2	100	1061200000
AEB 35 SC/1	50	1991920000
SDK PZ2	1	9008540000

Conductor connection data according to VDE 0603-2 (Cu), IEC 61238-1 Class A (Al)

Input (x2) / Output (x2)	Copper		Aluminium
2x35 mm ² (round conductor)			
35 mm ²	3,5 Nm	3,5 Nm	8 Nm
25 mm ²			6 Nm
16 mm ²			4 Nm
10 mm ²			
6 mm ²			
4 mm ²			
2.5 mm ²			
1.5 mm ²			
Stripping lengths	22 mm		
screw	M6 (+/- PZ2)		

 Stranded
  Solid
  Flexible with ferrule

Input (x2) / Output (x2)	Copper		Aluminium
2x25 mm ² (Rundleiter)			
35 mm ²	3,5 Nm	3,5 Nm	
25 mm ²			6 Nm
16 mm ²			4 Nm
10 mm ²			
6 mm ²			
4 mm ²			
2.5 mm ²			
1.5 mm ²			
Stripping lengths	18 mm		
screw	M6 (+/- PZ2)		

UL Rating data according to UL 1059

Certificate no. (UR)	XCFR2.E60693	
Voltage size B,C (UR) - CU	600 V	
	Current size B,C (UR) - CU / Tightening torque	
	Line	Load
AWG 2	115 A / 31 Lb In.	85 A / 22.1 Lb In.
AWG 4		
AWG 6		
AWG 8		
AWG 10		
AWG 12		
AWG 14		

	600 V	
	Current size B,C (UR) - AL / Tightening torque	
	Line	Load
AWG 2	65 A / 70.8 Lb In.	65 A / 53 Lb In.
AWG 4	50 A / 70.8 Lb In.	50 A / 35 Lb In.
AWG 6		
AWG 8		
AWG 10		
AWG 12		
AWG 14		

CSA rating data according to CSA 22.2 No. 158

Certificate No. (cURus)	XCFR8.E60693	
Voltage size B,C (cURus) - Cu	600 V	
	Current size B,C (cURus) - CU / CU / Tightening torque	
	Line	Load
AWG 2	125 A / 3,5 Nm	85 A / 2,5 Nm
AWG 4		
AWG 6		
AWG 8		
AWG 10		
AWG 12		
AWG 14		

	600 V	
	Current size B,C (cURus) - AL / AL / Tightening torque	
	Line	Load
AWG 2	90 A / 8 Nm	90 A / 8 Nm
AWG 4	65 A / 6 Nm	65 A / 8 Nm
AWG 6	50 A / 4 Nm	65 A / 6 Nm
AWG 8		
AWG 10		
AWG 12		
AWG 14		

