

WPD 231 2X95/2X95 BN**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image

Klippon® Connect power feed-in terminal blocks WPD allow for an easy and safe installation of aluminium and copper conductors on a small footprint. A power supply or monitoring connection can also be used as an option. Customers can use the power feed-in terminal blocks WPD, regardless of the conductor material. They can be mounted either directly or on DIN rail TS35.

General ordering data

Version	Potential distributor terminal, Screw connection, brown, 95 mm ² , 232 A, 1000 V, Number of connections: 4, Number of levels: 1
Order No.	2502730000
Type	WPD 231 2X95/2X95 BN
GTIN (EAN)	4050118516555
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Depth	57 mm	Depth (inches)	2.244 inch
Height	93 mm	Height (inches)	3.661 inch
Width	47 mm	Width (inches)	1.85 inch
Net weight	178 g		

Temperatures

Storage temperature	-25 °C...55 °C	Ambient temperature	-5 °C...40 °C
Continuous operating temp., min.	-50 °C	Continuous operating temp., max.	120 °C

Material data

Material	Wemid	Colour	brown
UL 94 flammability rating	V-0		

Rating data IECEx/ATEX

Certificate No. (ATEX)	CNEX18ATEX0016U	Certificate No. (IECEX)	IECEXNEX18.0010U
Max. voltage (ATEX)	880 V	Current (ATEX)	232 A
Wire cross section max. (ATEX)	95 mm ²	Max. voltage (IECEX)	880 V
Current (IECEX)	232 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	4	Levels cross-connected internally	No
PE connection	No	Rail	TS 35
PE function	No		

Additional technical data

Explosion-tested version	Yes	Installation advice	Terminal rail / mounting plate
Type of mounting	Snap-on		

Conductors for clamping (additional connection)

Connection type, additional connection Screw connection

Conductors for clamping (rated connection)

Clamping range, max.	95 mm ²	Clamping range, min.	10 mm ²
Connection cross-section, stranded, max.	95 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 3/0
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.	70 mm ²	Wire connection cross-section, solid core, max.	95 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, UL 1059, CSA
Wire connection cross section AWG, max.	AWG 3/0	Wire connection cross section AWG, min.	AWG 16

Rating data

Rated cross-section	95 mm ²	Rated voltage	1,000 V
Rated AC voltage	1,000 V	Rated DC voltage	1,000 V
Rated current	232 A	Current at maximum wires	232 A
Standards	IEC 60947-7-1, UL 1059, CSA	Volume resistance according to IEC 60947-7-x	0.14 mΩ
Rated impulse withstand voltage	8 kV	Power loss in accordance with IEC 60947-7-x	7.42 W
Short-time withstand current resistance	8/20μs with 50 kA	Pollution severity	3
Surge voltage category	III		

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 without exemption
REACH SVHC	No SVHC above 0.1 wt%

Important note

Product information	You will find additional information in the downloadsection of the onlinecatalogue
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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_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_319236/-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

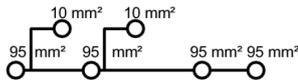
Approval/Certificate/Document of Conformity	UKCA Ex Attestation of Conformity CB Certificate FIMKO certificate CCC Ex Certificate ATEX Certificate IECEX Certificate UKCA Ex Certificate LMP 23.0563U- WPD (Rev. 0) DNV Certificate CE Declaration of Conformity UKCA declaration of conformity Confirmation of Standards EN 45545-2_2020-10
Engineering Data	CAD data – STEP
User Documentation	DATA SHEET WPD 231 StorageConditionsTerminalBlocks NTI WPD 231 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

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Drawings



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

Input (x1) / Output (x1)	Copper		Aluminum	
	Stranded	Solid	Stranded	Sector shaped
95 mm ²				
70 mm ²	19 Nm	19 Nm	22.6 Nm	22.6 Nm
50 mm ²				
35 mm ²				
25 mm ²				
16 mm ²	14 Nm	14 Nm		
10 mm ²				
max. current with 2 x 95 mm ² (acc. to IEC)	464 A		200 A	
Stripping lengths	26 mm			
Allen screw	M14 (SW 6 mm)			

Auxiliary connection

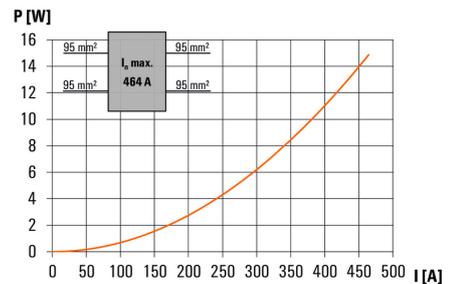
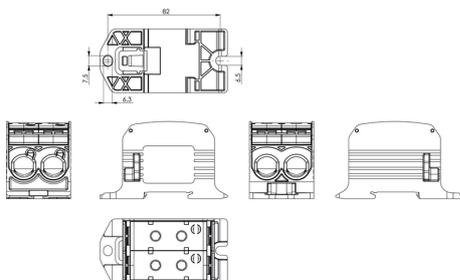
	Copper	
	Stranded	Solid
10 mm ²		
6 mm ²		
4 mm ²	1,2 Nm	1,2 Nm
2,5 mm ²		
1,5 mm ²		
max. current	57 A	
Stripping lengths	10 mm	
screw	M4 (+/- PZ2)	

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

Input (x1) / Output (x1)	Copper		Aluminum	
	Stranded	Solid	Stranded	Sector shaped
AWG 3/0				
AWG 2/0				
AWG 1/0	200 lb In.	200 lb In.	200 lb In.	123 lb In.
AWG 2				
AWG 4				
AWG 6				
AWG 8				
max. current at 1 x 95 mm ² (acc. to UL)	200 A		155 A	
Stripping lengths	26 mm			
Allen screw	M14 (SW 6 mm)			

Auxiliary connection

	Copper	
	Stranded	Solid
AWG 8		
AWG 10		
AWG 12	20.3 lb In.	20.3 lb In.
AWG 14		
AWG 16		
max. current	57 A	
Stripping lengths	10 mm	
screw	M4 (+/- PZ2)	



Power feed-in Screw connection

W-Series

WPD 131 1X95/1X95 GY



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

Technical data

Rated data		
Rated voltage		V
Rated current		A
for wire cross-section	95 mm ²	mm ²
	Auxiliary connection 6 mm ²	mm ²
Rated impulse withstand voltage / Pollution severity		
Overvoltage category / UL 94 flammability rating		
Approvals		
Clamped conductors (H05V/H07V)		
Solid / Stranded	95 mm ²	mm ²
	Auxiliary connection 6 mm ²	mm ²
Flexible with ferrule	95 mm ²	mm ²
	Auxiliary connection 6 mm ²	mm ²
Stripping length / Blade size	95 mm ²	mm/-
	Auxiliary connection 6 mm ²	mm/-
Tightening torque		Nm
Note		

Ordering data

Version	
	light grey
	blue
	green
	brown
	black
Note	

Accessories

Protective cover	light grey
End bracket	grey
	black
Screwdriver	SET
Identification systems	

WPD 131

95 mm²

28 / 57 / 93	10 mm ²
232 / 95	95 mm ²
10...95	95 mm ²

IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
1000	1000	1000	880
232	200	200	232
95	AWG 8...3/0	AWG 8...3/0	95
6	AWG 16...8	AWG 16...8	6
8 kV / 3			
III / V-0			

Bemessungsanschluss

10...95 / 10...95	
1.5...10 / 1.5...10	
16...70	
1.5...6	
26 / M14 (SW 6)	
10 / M4 (+/- PZ2)	
siehe Anhang am Kapitelende	

WPD 231

95 mm²

47 / 57 / 93	10 mm ²
232 / 95	95 mm ²
10...95	95 mm ²

IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
1000	1000	1000	880
464	200	200	232
95	AWG 8...3/0	AWG 8...3/0	95
6	AWG 16...8	AWG 16...8	6
8 kV / 3			
III / V-0			

Bemessungsanschluss

10...95 / 10...95	
1.5...10 / 1.5...10	
16...70	
1.5...6	
26 / M14 (SW 6)	
10 / M4 (+/- PZ2)	
siehe Anhang am Kapitelende	

B



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

Input (x1) / Output (x1)	Copper		Aluminium	
				
95 mm ²	19 Nm	19 Nm	22,6 Nm	22,6 Nm
70 mm ²				
50 mm ²				
35 mm ²				
25 mm ²	14 Nm	14 Nm		
16 mm ²				
10 mm ²				
max. current with 2 x 95 mm ² (acc. to IEC)	464 A		200 A	
Stripping lengths	26 mm			
Allen screw	M14 (SW 6 mm)			

Input (x1) / Output (x1)	Copper		Aluminium	
				
AWG 3/0	200Lb In.	200Lb In.	200Lb In.	123.9Lb In.
AWG 2/0				
AWG 1/0				
AWG 2				
AWG 4	200Lb In.	200Lb In.		
AWG 6				
AWG 8				
max. current at 1 x 95 mm ² (acc. to UL)	200 A		155 A	
Stripping lengths	26 mm			
Allen screw	M14 (SW 6 mm)			

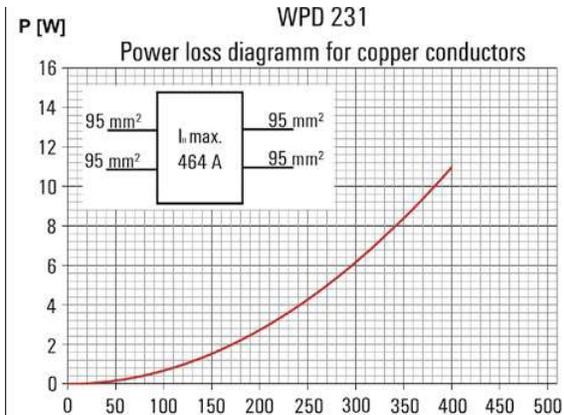
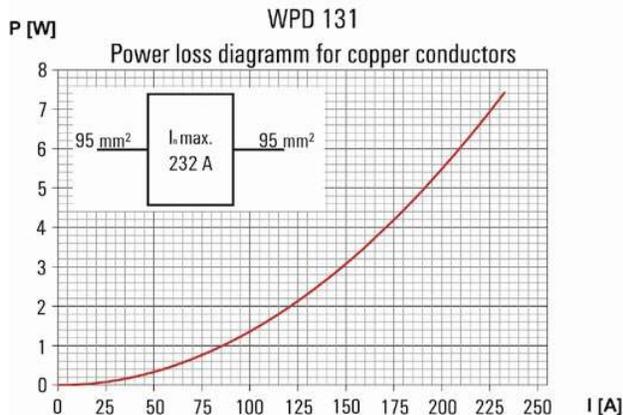
Auxiliary connection

	Copper	
		
10 mm ²	1,2 Nm	1,2 Nm
6 mm ²		
4 mm ²		
2.5 mm ²		
1.5 mm ²		
max. current	57 A	
Stripping lengths	10 mm	
screw	M4 (+/-PZ2)	

	Copper	
		
AWG 8	20.3Lb In.	20.3Lb In.
AWG 10		
AWG 12		
AWG 14		
AWG 16		
max. current	57 A	
Stripping lengths	10 mm	
screw	M4 (+/-PZ2)	



Diagrams



B

