WPD 130 1X50/1X50 GY

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

www.weidmueller.com

Product image



Power feed-in
Our wide range of W-Series terminal blocks with our WPD main line branch terminals, which are optimised to guarantee both convenience and space gains, ensures a secure and convenient connection at the power feed-in.

General ordering data

Version	W-Series, Distribution block, Rated cross-section: 50 mm², Terminal rail / mounting plate
Order No.	2502530000
Type	WPD 130 1X50/1X50 GY
GTIN (EAN)	4050118516258
Qty.	9 pc(s).

WPD 130 1X50/1X50 GY

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Technical data

Dimensions and weights

Depth	45 mm	Depth (inches)	1.772 inch
Height	70 mm	Height (inches)	2.756 inch
Width	22 mm	Width (inches)	0.866 inch
Net weight	39 g		

Temperatures

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

Material data

Material	Wemid	Colour	Light Grey
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)	150 A
Wire cross section max. (ATEX)	50 mm²	Max. voltage (IECEX)	880 V
Current (IECEX)	150 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	Levels cross-connected internally	No

Additional technical data

Installation advice	Terminal rail / mounting plate	Type of mounting	Snap-on

General

Installation advice	Terminal rail / mounting plate	Number of poles	1
Standards	IEC 60947-7-1, UL 1059, CSA		

Rating data

Rated cross-section	50 mm²	Rated voltage	1,000
Rated AC voltage	1,000 V	Rated DC voltage	1,000 V DC
Rated current	150 A	Standards	IEC 60947-7-1, UL 1059, CSA
Volume resistance according to IEC 60947-7-x	0.21 mΩ	Rated impulse withstand voltage	8 kV
Power loss in accordance with IEC 60947-7-x	4.8 W	Pollution severity	3
Surge voltage category	III		

UL rating data

Certificate No. (cURus)	E60693

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Technical data

Classifications

ETIM 6.0	EC000897	ETIM 7.0	EC000897
ETIM 8.0	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		

Important note

Product information	You will find additional information in the downloadsection of the onlinecatalogue

Approvals

Approvals	
ROHS	Conform
UL File Number Search	E60693

Downloads

Approval/Certificate/Document of Conformity	CB Certificate FIMKO certificate EAC EX Certificate CCC Ex Certificate ATEX Certificate IECEx Certificate DNV Certificate CE Declaration of Conformity
Engineering Data	CAD data – STEP
Engineering Data	EPLAN
User Documentation	DATA SHEET WPD 130 StorageConditionsTerminalBlocks NTI WPD 130
Catalogues	Catalogues in PDF-format

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Drawings



Power feed-in
Screw connection

W-Series
WPD 130 1X50/1X50 GY

WPD 130	50 mm²



WPD 230	50 mm²



Width / Height / Depth	**mm**	**22 / 45 / 70**	**35,6 / 45 / 70**
max. current / max. conductor	**A/mm²**	**150 / 50**	**150 / 50**
max. clamping range	**mm²**	**4...50**	**4...50**

Technical data

Rated data		IEC 60947-7-1				IEC 60947-7-1			
		IEC	UL	CSA	EN 60079-7	IEC	UL	CSA	EN 60079-7
Rated voltage	V	1000	1000	1000	880	1000	1000	1000	880
Rated current	A	150	150	150	150	300	150	150	150
for wire cross-section	mm²	50	AWG 12...1/0	AWG 12...1/0	50	50	AWG 12...1/0	AWG 12...1/0	50
Rated impulse withstand voltage / Pollution severity				8 kV / 3				8 kV / 3	
Overvoltage category / UL 94 flammability rating				III / V-0				III / V-0	
Approvals									
Clamped conductors (H05V/H07V)		**Bemessungsanschluss**				**Rated connection**			
Solid / Stranded	mm²	6...50 / 6...50				6...50 / 6...50			
Flexible with ferrule	mm²	4...35				4...35			
Stripping length / Blade size	mm/-	16 / M10 (SW 5 mm)				16 / M10 (SW 5 mm)			
Tightening torque	Nm	see appendix at the end of the chapter				see appendix at the end of the chapter			
Note									

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Ordering data

Version		Type	Qty.	Order No.	Type	Qty.	Order No.
	light grey	WPD 130 1X50/1X50 GY	9	**2502530000**	WPD 230 2X50/2X50 GY	5	**2502580000**
	blue	WPD 130 1X50/1X50 BL	9	**2502540000**	WPD 230 2X50/2X50 BL	5	**2502590000**
	green	WPD 130 1X50/1X50 GN	9	**2502550000**	WPD 230 2X50/2X50 GN	5	**2502600000**
	brown	WPD 130 1X50/1X50 BN	9	**2502560000**	WPD 230 2X50/2X50 BN	5	**2502610000**
	black	WPD 130 1X50/1X50 BK	9	**2502570000**	WPD 230 2X50/2X50 BK	5	**2502950000**
	brown / black / light grey						
	green / light grey / blue						
Note							

Accessories

Protective cover		Type	Qty.	Order No.	Type	Qty.	Order No.
	light grey	WPDPC X30 GY	54	**2503330000**	WPDPC X30 GY	54	**2503330000**
End bracket							
	grey	WEW 35/2 GR 7042	100	**1859200000**	WEW 35/2 GR 7042	100	**1859200000**
	black	AEB 35 SC/1 BK	50	**2475310000**	AEB 35 SC/1 BK	50	**2475310000**
Screwdriver							
	SET	SK WSD-S 1,5-10,0	1	**9008850000**	SK WSD-S 1,5-10,0	1	**9008850000**
Identification systems							
		DEK 5/5 MC NE WS	1000	**1609801044**	DEK 5/5 MC NE WS	1000	**1609801044**
		WS 8/5 MM WS	800	**2007150000**	WS 8/5 MM WS	800	**2007150000**

WPD 330 — 50 mm²





56,5 / 45 / 70
150 / 50
4...50

IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
1000	1000	1000	880
150	150	150	150
50	AWG 12...1/0	AWG 12...1/0	50
	8 kV / 3		
	III / V-0		

Rated connection
6...50 / 6...50
4...35
16 / M10 (SW 5 mm)
see appendix at the end of the chapter



Type	Qty.	Order No.
WPD 330 3X50/3X50 3XGY	3	**2502620000**
WPD 330 3X50/3X50 1XBN/1XBK/1XGY	3	**2502650000**
WPD 330 1XGY/1XBL/1XGN	3	**2502640000**



Type	Qty.	Order No.
WPDPC X30 GY	54	**2503330000**
WEW 35/2 GR 7042	100	**1859200000**
AEB 35 SC/1 BK	50	**2475310000**
SK WSD-S 1,5-10,0	1	**9008850000**
DEK 5/5 MC NE WS	1000	**1609801044**
WS 8/5 MM WS	800	**2007150000**



Power feed-in
Screw connection

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

Input (x1) / Output (x1)	Copper		Aluminium	
50 mm²	10 Nm		14 Nm	14 Nm
35 mm²		10 Nm		
25 mm²	8 Nm	8 Nm	12 Nm	10 Nm
16 mm²			10 Nm	
10 mm²	6 Nm	6 Nm		
6 mm²				
4 mm²				
max. current with 2 x 50 mm² (acc. to IEC)	300 A		270 A	
Stripping lengths	16 mm			
Allen screw	M10 (SW 5 mm)			

Input (x1) / Output (x1)	Copper		Aluminium	
AWG 1/0	123.9Lb In.		123.9Lb In.	123.9Lb In.
AWG 2		123.9Lb In.		
AWG 4				
AWG 6				
AWG 8				
AWG 10				
AWG 12				
max. current at 1 x 50 mm² (acc. to UL)	150 A		120 A	
Stripping lengths	16 mm			
Allen screw	M10 (SW 5 mm)			

Stranded | Solid | Flexible with ferrule | Sector shaped

Diagrams





