WPD 105 1X35+1X16/2X25+3X16 BL

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: Screw connection, Terminal rail / mounting plate
Order No.	2518540000
Type	WPD 105 1X35+1X16/2X25+3X16 BL
GTIN (EAN)	4050118531831
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Depth	53.7 mm	Depth (inches)	2.114 inch
Height	70 mm	Height (inches)	2.756 inch
Width	35.6 mm	Width (inches)	1.402 inch
Net weight	138 g		

Temperatures

Storage temperature	-25 °C...55 °C	Continuous operating temp., min.	-50 °C
Continuous operating temp., max.	130 °C		

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1

Material data

Material	Wemid	Colour	blue
UL 94 flammability rating	V-0		

Rating data IECEx/ATEX

Certificate No. (ATEX)	CNEX16ATEX0005U	Certificate No. (IECEX)	IECEXCNEX16.0005U
Max. voltage (ATEX)	690 V	Current (ATEX)	125 A
Wire cross section max. (ATEX)	35 mm²	Max. voltage (IECEX)	690 V
Current (IECEX)	125 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	Rail	Mounting plate, TS 35
PE function	No	PEN function	No

Additional technical data

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

CSA rating data

Certificate number (cCSAus)	70128467

Conductors for clamping (rated connection)

Connection direction	None, on side	Type of connection	Screw connection

General

Installation advice	Terminal rail / mounting plate	Number of poles	1
Rail	Mounting plate, TS 35	Standards	IEC 60947-7-1, UL 1059

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Technical data

Rating data

Rated AC voltage	1,000 V	Rated DC voltage	1,000 V DC
Rated current	214 A	Current at maximum wires	125 A
Standards	IEC 60947-7-1, UL 1059		

UL rating data

Certificate No. (UR)	E60693

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	Power distribution block (Bus Bar) also usable for distribution of neutral conductor and function earth.

Approvals

Approvals	
ROHS	Conform
UL File Number Search	E60693

Downloads

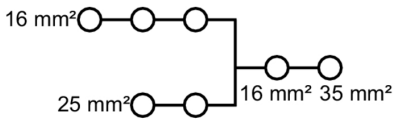
Approval/Certificate/Document of Conformity	Attestation of Conformity Attestation of Conformity CB Certificate ATEX Certificate IECEx Certificate EAC EX Certificate CCC Ex Certificate
Engineering Data	STEP
Engineering Data	EPLAN
User Documentation	StorageConditionsTerminalBlocks NTI WPD 105
Catalogues	Catalogues in PDF-format

WPD 105 1X35+1X16/2X25+3X16 BL

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Drawings



Power distribution
Screw connection

W-Series
WPD 105 1x35+1x16/2x25+3x16

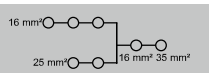
WPD 105	35 mm²

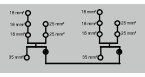


WPD 205	35 mm²



Width / Height / Depth	**35.6 / 53.7 / 70**	**71.2 / 53.7 / 70**
max. current / max. conductor	**125 / 35**	**125 / 35**
max. clamping range	**2.5...35**	**2.5...35**





Technical data

Rated data			IEC 60947-7-1 (Cu), UL 1059 (Cu+Al)				IEC 60947-7-1 (Cu), UL 1059 (Cu+Al)			
			IEC	UL	CSA	EN 60079-7	IEC	UL	CSA	EN 60079-7
Rated voltage		V	1000	600	600	690	1000	600	600	690
Rated current		A	125	115	85	125	125	115	85	125
for wire cross-section	35 mm²	mm²	35	AWG 12...2	AWG 12...2	35	35	AWG 12...2	AWG 12...2	35
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)			**Rated connection**				**Rated connection**			
Solid / Stranded	35 mm²	mm²	4...35 / 4...35				4...35 / 4...35			
	25 mm²	mm²	2.5...25 / 2.5...25				2.5...25 / 2.5...25			
	16 mm²	mm²	1.5...16 / 1.5...16				1.5...16 / 1.5...16			
Flexible with ferrule	35 mm²	mm²	2.5...25				2.5...25			
	25 mm²	mm²	1.5...16				1.5...16			
	16 mm²	mm²	1.5...10				1.5...10			
Stripping length / Blade size	35 mm²	mm/-	19 / M8				19 / M8			
	25 mm²	mm/-	14 / M6				14 / M6			
	16 mm²	mm/-	12 / M6				12 / M6			
Tightening torque		Nm	see appendix at the end of the chapter				see appendix at the end of the chapter			
Note										

Ordering data

Version		Type	Qty.	Order No.	Type	Qty.	Order No.
	grey	WPD 105 1x35+1x16/2x25+3x16 GY	1	**1562170000**	WPD 205 2x35/4x25+6x16 2xGY	1	**1562180000**
	blue	WPD 105 1x35+1x16/2x25+3x16 BL	1	**2518540000**	WPD 205 2x35/4x25+6x16 2xBL	1	**2519470000**
	red	WPD 105 1x35+1x16/2x25+3x16 RD	1	**2725310000**	WPD 205 2x35/4x25+6x16 2xRD	1	**2725320000**
	black	WPD 105 1x35+1x16/2x25+3x16 BK	1	**2725410000**	WPD 205 2x35/4x25+6x16 2xBK	1	**2725420000**
Note							

Accessories

Cross connection		Type	Qty.	Order No.	Type	Qty.	Order No.
	2-pole	WQB WPD X05/2	20	**1561960000**			
	3-pole	WQB WPD X05/3	20	**1561970000**			
End bracket							
	dark beige	WEW 35/2	100	**1061200000**	WEW 35/2	100	**1061200000**
	dark beige	AEB 35 SC/1	50	**1991920000**	AEB 35 SC/1	50	**1991920000**
Screwdriver							
		SDK PZ2 X 100	1	**2749450000**	SDK PZ2 X 100	1	**2749450000**
	SET	SK WSD-S 1,5-10,0	1	**9008850000**	SK WSD-S 1,5-10,0	1	**9008850000**

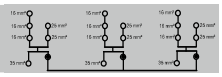
WPD 305 — 35 mm²









106.8 / 53.7 / 70	
125 / 35	
2.5...35	

IEC 60947-7-1 (Cu), UL 1059 (Cu+Al)

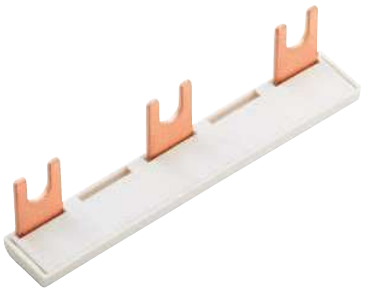
IEC	UL	CSA	EN 60079-7
1000	600	600	690
125	115	85	125
35	AWG 12...2	AWG 12...2	35
	8 kV / 3		
	III / V-0		

Rated connection
4...35 / 4...35
2.5...25 / 2.5...25
1.5...16 / 1.5...16
2.5...25
1.5...16
1.5...10
19 / M8
14 / M6
12 / M6
see appendix at the end of the chapter

Type	Qty.	Order No.
WPD 305 3x35/6x25+9x16 3xGY	1	**1562190000**
WPD 305 3x35/6x25+9x16 3xBL	1	**2521770000**
WPD 305 3x35/6x25+9x16 3xRD	1	**2725330000**
WPD 305 3x35/6x25+9x16 3xBK	1	**2725430000**

Type	Qty.	Order No.
WEW 35/2	100	**1061200000**
AEB 35 SC/1	50	**1991920000**
SDK PZ2 X 100	1	**2749450000**
SK WSD-S 1,5-10,0	1	**9008850000**

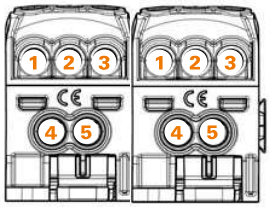




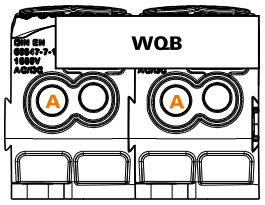
Power distribution
Screw connection

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

Input	connection point A			
	Copper		Aluminium*	
				
35 mm²	3,5 Nm		11,3 Nm	
25 mm²		3,5 Nm		11,3 Nm
16 mm²				
10 mm²				
6 mm²				
4 mm²				
2.5 mm²				
Stripping lengths	19 mm			
Allen screw	M8			
* Values according to UL 1059				



output



input

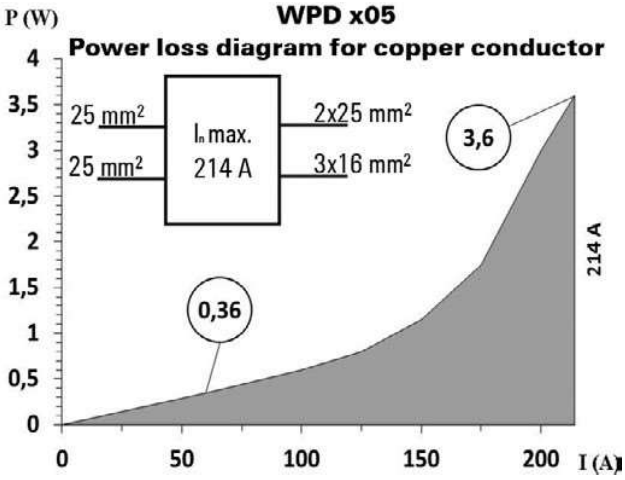
Output	connection point 1/2/3				connection point 4/5				connection point B			
	Copper		Aluminium*		Copper		Aluminium*		Copper		Aluminium*	
												
25 mm²					2,5 Nm							
16 mm²	2 Nm					2,5 Nm	5,1 Nm		2,5 Nm			
10 mm²		2 Nm	5,1 Nm					5,1 Nm		2,5 Nm	5,1 Nm	
6 mm²												
4 mm²												
2.5 mm²												
1.5 mm²												
Stripping lengths	12 mm				14 mm				19 mm			
Allen screw	M6				M6				M6			
* Values according to UL 1059												


Stranded

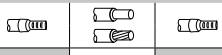

Solid


Flexible with ferrule


Sector shaped



UL Rating data according to UL 1059

Certificate no. (UR)	XCFR2.E60693			
	connection point A			
Input (line)	Copper		Aluminium	
				
AWG 2	31 Lb In.		100 Lb In.	
AWG 4		31 Lb In.		100 Lb In.
AWG 6				
AWG 8				
AWG 10				
AWG 12				
max. current	115 A	85 A	90 A	65 A
Voltage size B,C (UR)	600 V			

output (load)	connection point 1/2/3				connection point 4/5				connection point B			
	Copper		Aluminium		Copper		Aluminium		Copper		Aluminium	
												
AWG 4							45.1 Lb In.					
AWG 6	22.1 Lb In.		45.1 Lb In.		22.1 Lb In.			45.1 Lb In.	22.1 Lb In.		45.1 Lb In.	
AWG 8		22.1 Lb In.				22.1 Lb In.				22.1 Lb In.		
AWG 10												
AWG 12												
AWG 14												
AWG 16												
max. current	65 A	50 A	50 A		85 A	65 A	65 A	50 A	65 A	50 A	50 A	
Voltage size B,C (UR)	600 V											

 Stranded

 Solid

 Flexible with ferrule

 Sector shaped

CSA-Bemessungsdaten nach CSA 22.2 Nr. 158

Certificate No. (CSA)	269832			
	Input		Output	
	CP* A	CP* 1/2/3	CP* 4/5	CP*B
AWG 4	31 Lb In.			
AWG 4			22.1 Lb In.	
AWG 6		22.1 Lb In.		22.1 Lb In.
AWG 8				
AWG 10				
AWG 12				
AWG 14				
AWG 16				
max. current	115 A	85 A	85 A	85 A
Voltage size C (CSA)	600 V			
* CP - connection point				