

**W-Series
WDU 50N BL**

Weidmüller Interface GmbH & Co. KG
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Product image**Klippon® Connect with clamping yoke Technology**

The high reliability and variety of designs of the terminal blocks with clamping yoke connections make planning easier and optimises operational safety. Klippon® Connect provides a proven response to a range of different requirements.

General ordering data

Type	WDU 50N BL
Order No.	1820850000
Version	Feed-through terminal, Screw connection, 50 mm², 1000 V, 150 A, blue
GTIN (EAN)	4032248317806
Qty.	10 pc(s).

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Technical data
Dimensions and weights

Width	18.5 mm	Width (inches)	0.728 inch
Height	70 mm	Height (inches)	2.756 inch
Depth	69.6 mm	Depth (inches)	2.74 inch
Depth including DIN rail	70.6 mm	Net weight	80.443 g

Temperatures

Operating temperature range	For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity	Storage temperature, max.	40 °C
Storage temperature, min.	10 °C	Storage temperature	10 °C...40 °C
Continuous operating temp., min.	-60 °C	Continuous operating temp., max.	130 °C

Material data

Material	Wemid	Colour	blue
UL 94 flammability rating	V-0		

Rating data IECEx/ATEX

Certificate No. (ATEX)	DEMKO14ATEX1338U	Certificate No. (IECEX)	IECEXULD14.0005U
Max. voltage (ATEX)	690 V	Current (ATEX)	126 A
Wire cross section max. (ATEX)	50 mm ²	Max. voltage (IECEX)	690 V
Current (IECEX)	126 A	Wire cross section max. (IECEX)	50 mm ²
Operating temperature range	For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity	Marking EN 60079-7	Ex eb II C Gb
Ex 2014/34/EU label	II 2 G D		

System specifications

Version	Screw connection, for screwable cross-connection, in closed state	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	No	PE connection	No
Rail	TS 35	N-function	Yes
PE function	No	PEN function	Yes

2 clampable conductors (H05V/H07V) with equal cross-section (rated connection)

Cross-section for connected wire, stranded, two clampable wires, min.	6 mm ²	Cross-section for connected wire, stranded, two clampable wires, max.	16 mm ²
Wire connection cross section, finely stranded, two clampable wires, min.	6 mm ²	Wire cross-section, finely stranded, two clampable wires, max.	16 mm ²
Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, min.	6 mm ²	Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, max.	16 mm ²

Additional technical data

Explosion-tested version	No	Installation advice	Direct mounting
Open sides	closed	Type of mounting	Snap-on

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Technical data
CSA rating data

Certificate No. (CSA)	200039-1057876	Current size B (CSA)	150 A
Current size C (CSA)	150 A	Current size D (CSA)	5 A
Voltage size B (CSA)	600 V	Voltage size C (CSA)	600 V
Voltage size D (CSA)	600 V	Wire cross section max. (CSA)	0 AWG
Wire cross section min. (CSA)	8 AWG		

Conductors for clamping (rated connection)

Blade size	S4 (DIN 6911)	Clamping range, max.	70 mm ²
Clamping range, min.	10 mm ²	Clamping screw	M 6
Connection cross-section, stranded, max.	70 mm ²	Connection cross-section, stranded, min.	6 mm ²
Connection direction	on side	Gauge to IEC 60947-1	B10
Number of connections	2	Stripping length	24 mm
Tightening torque, max.	6 Nm	Tightening torque, min.	3.5 Nm
Type of connection	Screw connection	Wire connection cross section AWG, max.	AWG 0
Wire connection cross section AWG, min.	AWG 8	Wire connection cross section, finely stranded, max.	50 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	50 mm ²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	6 mm ²
Wire connection cross-section, finely stranded, min.	10 mm ²	Wire connection cross-section, solid core, max.	16 mm ²
Wire connection cross-section, solid core, min.	6 mm ²		

Dimensions

TS 35 offset	40 mm
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Rating data

Rated cross-section	50 mm ²	Rated voltage	1,000 V
Rated current	150 A	Current at maximum wires	192 A
Standards	IEC 60947-7-1	Volume resistance according to IEC 60947-7-x	0.21 mΩ
Power loss in accordance with IEC 60947-7-x	4.8 W	Rated impulse withstand voltage	8 kV
Pollution severity	3	Surge voltage category	III

UL rating data

Certificate No. (UR)	E60693	Conductor size Factory wiring max. (UR)	0 AWG
Conductor size Factory wiring min. (UR)	10 AWG	Conductor size Field wiring max. (UR)	0 AWG
Conductor size Field wiring min. (UR)	10 AWG	Current size C (UR)	150 A
Voltage size C (UR)	600 V		

Classifications

ETIM 6.0	EC000897	ETIM 7.0	EC000897
eClass 9.0	27-14-11-20	eClass 9.1	27-14-11-20
eClass 10.0	27-14-11-20	UNSPSC	30-21-18-11

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Technical data**Approvals**

Approvals



ROHS	Conform
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Downloads

Approval/Certificate/Document of Conformity	Attestation of Conformity IECEX Certificate EAC certificate INMETRO certificate DE_PT1001_20160418_806_ISSUE01.pdf ATEX Certificate Declaration of Conformity Terminals
Brochure/Catalogue	CAT 1 TERM 16/17 EN
Engineering Data	EPLAN, WSCAD, Zuken E3.S
Engineering Data	STEP
User Documentation	NTI WDU/WPE 50N StorageConditionsTerminalBlocks Instruction

Safety note

Safety notice	Safety Information
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Data sheet**W-Series
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Drawings
