

**W-Series
WPE 50N**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

**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	WPE 50N
Order No.	1846040000
Version	PE terminal, Screw connection, 50 mm ² , 6000 A (50 mm ²), green / yellow
GTIN (EAN)	4032248394548
Qty.	10 pc(s).

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Technical data**Dimensions and weights**

Width	18.5 mm	Width (inches)	0.728 inch
Height	71 mm	Height (inches)	2.795 inch
Depth	69.6 mm	Depth (inches)	2.74 inch
Depth including DIN rail	70 mm	Net weight	126.143 g

Temperatures

Continuous operating temp., min.	-60 °C	Continuous operating temp., max.	130 °C
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Material data

Material	Wemid	Colour	green / yellow
UL 94 flammability rating	V-0		

Rating data IECEx/ATEX

Certificate No. (ATEX)	DEMKO14ATEX1338U	Certificate No. (IECEX)	IECEXULD14.0005U
Wire cross section max. (ATEX)	50 mm ²	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 2014/34/EU label	II 2 G D		Ex eb II C Gb

System specifications

Version	Screw connection, With PE connection, closed	Tightening torque (mounting screw)	3...4 Nm
Tightening torque (clamping screw for copper conductors)	4...6 Nm	End cover plate required	No
Number of potentials	1	Number of levels	1
No. of clamping points per level	2	Number of potentials per tier	1
Levels cross-connected internally	No	PE connection	Yes
Mounting rail	TS 35	N-function	No
PE function	Yes	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	Yes	Installation advice	Screwed
Interlock	for screw fixing	Number of similar terminals	1
Open sides	closed	Type of mounting	Screwed

Creation date October 26, 2018 8:34:54 PM CEST

Catalogue status 11.10.2018 / We reserve the right to make technical changes.

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Technical data**CSA rating data**

Certificate No. (CSA)	200039-1057876	Wire cross section max. (CSA)	0 AWG
Wire cross section min. (CSA)	14 AWG		

Conductors for clamping (rated connection)

Blade size	S4 (DIN 6911)	Clamping range, max.	70 mm ²
Clamping range, min.	5.26 mm ²	Clamping screw	M 6
Connection cross-section, stranded, max.	70 mm ²	Connection cross-section, stranded, min.	10 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.	4 Nm
Type of connection	Screw connection	Wire connection cross section AWG, max.	AWG 0
Wire connection cross section AWG, min.	AWG 14	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.	10 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.	10 mm ²		

PE rating data

Rated short-time current	6000 A (50 mm ²)	Centre screw on PE terminals	M 5
Tightening torque range for fixing screw	3.0...4.0 Nm	PEN function	Yes

Rating data

Rated cross-section	50 mm ²	Rated voltage to adjoining terminal	1,000 V
Standards	IEC 60947-7-2	Volume resistance according to IEC 60947-7-x	0.21 mΩ
Rated impulse withstand voltage to adjacent terminal	8 kV	Pollution severity	3

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		

Classifications

ETIM 3.0	EC000901	ETIM 4.0	EC000491
ETIM 5.0	EC000491	ETIM 6.0	EC000901
UNSPSC	30-21-18-11	eClass 5.1	27-14-03-05
eClass 6.2	27-14-03-05	eClass 7.1	27-14-03-05
eClass 8.1	27-14-11-41	eClass 9.0	27-14-11-41
eClass 9.1	27-14-11-41		

Product information

Descriptive text technical data	For 50 and 70 mm ² , the TS 35 x 15 (copper, 2.3 mm thick) mounting rail should be used.
Instructions for accessories	Rail support protective insulation for installation of mounting rail "SH 2" order No. 0494920000 (QTY 10).

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Data sheet

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Technical data

Approvals

Approvals



ROHS Conform

Downloads

Approval/Certificate/Document of Conformity	CFAT_WPE_50N.pdf IECEXULD14.0005U_e.pdf DE_PT1002_20160418_937_ISSUE01.pdf ACF-ATEX_4786180920
Brochure/Catalogue	CAT 1 TERM 16/17 EN
Engineering Data	EPLAN, WSCAD, Zuken E3.S
Engineering Data	STEP
User Documentation	NTI_IECEX_WDU-WPE 50N.pdf NTI_IECEX_WDU-WPE 120_150.pdf

Safety note

Safety notice [Safety Information](#)

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Drawings

