

**W-Series
WPE 50N**

Weidmüller Interface GmbH & Co. KG
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**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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Material data

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

Rating data IECEx/ATEX

Certificate No. (ATEX)	DEMKO14ATEX1338U	ATEX certificate	ACF-ATEX_4786180920.pdf
Certificate No. (IECEX)	IECEXULD14.0005U	IEC Ex certificate	IECEXULD14.0005U_e.pdf
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 e II
Ex 2014/34/EU label	II 2 G D		

System specifications

Version	Screw connection, With PE connection, closed	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

CSA rating data

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

Creation date July 11, 2017 5:12:14 PM CEST

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Technical data
Conductors for clamping (rated connection)

Blade size	S4 (DIN 6911)	Clamping range, rated connection, max.	70 mm ²
Clamping range, rated connection, min.	5.26 mm ²	Clamping screw	M 6
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 with wire-end ferrules DIN 46228/1, rated connection, max.	50 mm ²
Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, min.	10 mm ²	Wire connection cross section, finely stranded, max.	50 mm ²
Wire connection cross section, solid core max. rated connection	16 mm ²	Wire connection cross section, solid core, min. rated connection	10 mm ²
Wire connection cross section, stranded, rated connection, max.	70 mm ²	Wire connection cross section, stranded, rated connection, min.	10 mm ²
Wire connection cross-section, finely stranded, 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.
Descriptive text accessories	Rail support protective insulation for installation of mounting rail "SH 2" order No. 0494920000 (QTY 10).

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
Engineering Data	EPLAN, WSCAD, Zuken E3.S
User Documentation	NTI_IECEX_WDU-WPE 50N.pdf

Safety note

Safety notice [Safety Information](#)

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Drawings

