

**W-Series**  
**WDU 50N IR**

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

**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 IR
Order No.	<a href="#">1186630000</a>
Version	Feed-through terminal, Screw connection, 50 mm <sup>2</sup> , 1000 V, 150 A, dark beige
GTIN (EAN)	4050118031492
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	81.3 g

**Temperatures**

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	dark beige
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 <sup>2</sup>	Max. voltage (IECEX)	690 V
Current (IECEX)	126 A	Wire cross section max. (IECEX)	50 mm <sup>2</sup>
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	Tightening torque (clamping screw for aluminium conductors)	6 Nm
Tightening torque (clamping screw for copper conductors)	3...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	No
Rail	TS 35	N-function	No
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 <sup>2</sup>	Cross-section for connected wire, stranded, two clampable wires, max.	16 mm <sup>2</sup>
Wire connection cross section, finely stranded, two clampable wires, min.	6 mm <sup>2</sup>	Wire cross-section, finely stranded, two clampable wires, max.	16 mm <sup>2</sup>
Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, min.	6 mm <sup>2</sup>	Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, max.	16 mm <sup>2</sup>

**Additional technical data**

Explosion-tested version	No	Installation advice	Direct mounting
Number of similar terminals	1	Open sides	closed
Type of mounting	Snap-on		

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**Technical data****Conductors for clamping (rated connection)**

Blade size	TX 20	Clamping range, max.	70 mm <sup>2</sup>
Clamping range, min.	10 mm <sup>2</sup>	Clamping screw	M 6
Connection cross-section, stranded, max.	70 mm <sup>2</sup>	Connection cross-section, stranded, min.	10 mm <sup>2</sup>
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 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 <sup>2</sup>
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	50 mm <sup>2</sup>	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	10 mm <sup>2</sup>
Wire connection cross-section, finely stranded, min.	10 mm <sup>2</sup>	Wire connection cross-section, solid core, max.	16 mm <sup>2</sup>
Wire connection cross-section, solid core, min.	10 mm <sup>2</sup>		

**Rating data**

Rated cross-section	50 mm <sup>2</sup>	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
Rated impulse withstand voltage	8 kV	Pollution severity	3

**Classifications**

ETIM 3.0	EC000897	ETIM 4.0	EC000897
ETIM 5.0	EC000897	ETIM 6.0	EC000897
UNSPSC	30-21-18-11	eClass 5.1	27-14-11-20
eClass 6.2	27-14-11-20	eClass 7.1	27-14-11-20
eClass 8.1	27-14-11-20	eClass 9.0	27-14-11-20
eClass 9.1	27-14-11-20		

**Approvals**

Approvals



ROHS Conform

**Downloads**

Approval/Certificate/Document of Conformity	<a href="#">IECEX Certificate</a> <a href="#">DE_PT1001_20160418_808_ISSUE01.pdf</a> <a href="#">ATEX Certificate</a>
Brochure/Catalogue	<a href="#">CAT 1 TERM 16/17 EN</a>
Engineering Data	<a href="#">EPLAN, WSCAD, Zuken E3.S</a>
Engineering Data	<a href="#">STEP</a>
User Documentation	<a href="#">NTI WDU/WPE 50N</a>

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**Data sheet**

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**Technical data**

**Safety note**

Safety notice

[Safety Information](#)

**Data sheet**

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**Drawings**

