

**W-Series
WDU 50N**

Weidmüller Interface GmbH & Co. KG
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The versatile and extensive range of products - from 0.05 mm² to 300 mm² - means that you have diverse options for your applications at your disposal. Hardened steel for mechanical strength and high-quality tinned copper for optimum conductivity. All materials comply with RoHS requirements and have been tested to current environment guidelines.

General ordering data

Type	WDU 50N
Order No.	1820840000
Version	W-Series, Feed-through terminal, Rated cross-section: 50 mm ² , Screw connection, Direct mounting, Dark Beige
GTIN (EAN)	4032248318117
Qty.	10 pc(s).

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Technische Daten

Dimensions and weights

Length	70 mm	Width	18.5 mm
Height	69.6 mm	Height of lowest version	70.6 mm
Net weight	84.38 g		

Temperatures

Operating temperature		Storage temperature	
Continuous operating temp., min.	-50 °C	Continuous operating temp., max.	120 °C

Rated data IECEx/ATEX

Certificate No. (ATEX)	KEMA98ATEX1683U	ATEX certificate	KEMA98ATEX1683U_d.pdf
ATEX certificate	KEMA98ATEX1683U_e.pdf	Max. voltage (ATEX)	690 V
Current (ATEX)	126 A	Wire cross section max. (ATEX)	50 mm ²
Voltage, cross-connection		Operating temperature range	For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity
	CrossConnectionGuide.pdf		
Marking EN 60079-7	Ex e II	Marking ATEX Directive 94/9/EC	II 2 G D

2 clampable wires (H05V/H07V) same 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
Number of similar terminals	1	Open sides	closed
Type of mounting		Version	Screw connection, for screwable cross-connection, closed
	Snap-on		

CSA ratings data

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

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Clampable wires (rated connection)

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

Rated data

Rated cross-section	50 mm ²	Rated voltage	1,000 V
Rated impulse withstand voltage	8 kV	Rated current	150 A
Current at maximum wires	192 A	Standards	IEC 60947-7-1
Pollution severity	3	Surge voltage category	III

UL ratings data

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

Material data

Material	Wemid	Colour	Dark Beige
UL 94 flammability rating	V-0		

System specifications

Product family	W-Series	Type of connection	Screw connection
Connection direction	on side	Number of levels	1
Number of connections	2	No. of clamping points per level	2
Number of potentials per level	1	Levels cross-connected internally	No
Mounting rail	TS 35	End cover plate required	No

Classifications

ETIM 3.0	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		

Datenblatt

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Product information

Descriptive text ordering data	1000 VDC rated voltage tested. 1000 V UL and CSA for use groups B and C: can be used with isolating DIN rails and when using WTW-type partitions.
Descriptive text accessories	Auxiliary connection for additional conductor "WZAD 50N" 1872720000 (up to 10 mm ² , 41 A).

Approvals

Approvals



ROHS

Conform

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Zeichnungen

