

**W terminal feed-through terminal  
WDU 50N**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-2083  
 www.weidmueller.com



The versatile and extensive range of products - from 0.05 mm<sup>2</sup> to 300 mm<sup>2</sup> - 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**

Order No.	<a href="#">1820840000</a>
Part designation	WDU 50N
Version	W terminal feed-through terminal, Feed-through terminal, Rated cross-section: 50 mm <sup>2</sup> , Screw connection, Direct mounting
GTIN (EAN)	4032248318117
Qty.	10 pc(s).

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**Technical data**

**Dimensions**

Length	70 mm	Width	18.5 mm
Height of lowest version	70 mm		

**Temperature**

Ambient temperature (operational)	-50 °C...+120 °C	Storage temperature	
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**CSA ratings data**

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

**Strap connection**

Strap 1, min.	1 x 6 or 2 x 3 layers 9 x 0.8	Strap 1, max.	9 layers 9 x 0.8
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**UL ratings data**

Certificate no.	E60693VOL1SEC38	Voltage size C	600 V
Current size C (UR)	150 A	Conductor size Factory wiring, max	0 AWG
Conductor size Factory wiring, min	10 AWG	Conductor size Field wiring, max	0 AWG

**IECEX/ATEX rating data**

Certificate no.	KEMA98ATEX1683U	ATEX certificate	KEMA98ATEX1683U_d.pdf
ATEX certificate	KEMA98ATEX1683U_e.pdf	max. voltage	690 V
Current (ATEX)	126 A	Conductor cross-section, max.	50 mm <sup>2</sup>
Voltage when using cross-connections		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		

**Material data**

Material	Wemid	Colour	dark beige
Flammability class UL 94	V-0		

**System specifications**

Product family	W terminal feed-through terminal	Type of connection	Screw connection
Connection direction	on side	Number of levels	1
No. of clamping points per level	2	Levels cross-connected internally	No
End cover plate required	No		

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**Technical data**

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

Solid, max.	16 mm <sup>2</sup>	Conductor cross-section, stranded, 2 clampable conductor, min.	6 mm <sup>2</sup>
Conductor cross-section, stranded, 2 clampable conductor, max.	16 mm <sup>2</sup>	Flexible, min.	6 mm <sup>2</sup>
Flexible, max.	16 mm <sup>2</sup>	Conductor cross-section, flexible plus plastic collar DIN 46228/1, 2 clampable conductor, min.	6 mm <sup>2</sup>
Conductor cross-section, flexible plus plastic collar DIN 46228/1, 2 clampable conductor, max.	16 mm <sup>2</sup>		

**Additional technical data**

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

**Conductors for clamping (additional connection)**

Rated current	150 A	Type of connection	Screw connection
Clamping screw	M 6	Blade size	S4 (DIN 6911)
Tightening torque, max.	6 Nm	Tightening torque, min.	3.5 Nm

**Conductors for clamping (rated connection)**

Type of connection	Screw connection	Stripping length	24 mm
Blade size	S4 (DIN 6911)	Connection direction	on side
Clamping range, min.	10 mm <sup>2</sup>	Clamping range, max.	70 mm <sup>2</sup>
Clamping screw	M 6	Tightening torque, min.	3.5 Nm
Tightening torque, max.	6 Nm	Gauge to IEC 60947-1	B10
Conductor cross-section, solid, min.	10 mm <sup>2</sup>	Conductor cross-section, solid, max.	16 mm <sup>2</sup>
Stranded, min.	10 mm <sup>2</sup>	Stranded, max.	70 mm <sup>2</sup>
Conductor cross-section, flexible, max.	50 mm <sup>2</sup>	Conductor cross-section, flexible plus plastic collar DIN 46228/1, rated connection, min.	10 mm <sup>2</sup>
Conductor cross-section, flexible plus plastic collar DIN 46228/1, rated connection, max.	50 mm <sup>2</sup>		

**Rating data**

Rated cross-section	50 mm <sup>2</sup>	Rated voltage	1,000 V
Rated impulse withstand voltage	8 kV	Rated current	150 A
Current with max. conductor	192 A	Standards	IEC 60947-7-1
Pollution severity	3		

**Approvals**

Approvals institutes	CSA; CURUSEX; GERMLLOYD; GOSTEX; GOSTME25; KEMAATEX; UR; CE
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**Classifications**

ETIM 2.0	EC000897	ETIM 3.0	EC000897
UNSPSC	30-21-18-11	eClass 4.1	27-14-11-20
eClass 5.1	27-14-11-20	eClass 6.0	27-14-11-20

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**Technical data****Product notes**

Note, accessories	Auxiliary connection for the additional conductor "WZAD 50N", order no. 1872720000 (up to 10 mm <sup>2</sup> , 41 A)
Product description	Identical profiles from 2.5 to 10 mm <sup>2</sup> with uniform end and partition plates. An unsurpassed combination of many advantages!  Their small size compared to the respective rated cross-section makes the modular terminals with the compact design very popular.

**Downloads**

DXF	<a href="#">33981_WDU_50N_DXF.dxf</a>
STEP	<a href="#">1820840000_33981_WDU_50N_STP.stp</a>
<a href="#">3D model</a>	

**Datasheet**

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**Drawings**

