

WDU 50N BL**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Product image**

To feed through power, signal, and data is the classical requirement in electrical engineering and panel building. The insulating material, the connection system and the design of the terminal blocks are the differentiating features. A feed-through terminal block is suitable for joining and/or connecting one or more conductors. They could have one or more connection levels that are on the same potential or insulated against one another.

General ordering data

Version	Feed-through terminal block, Screw connection, blue, 50 mm ² , 150 A, 1000 V, Number of connections: 2
Order No.	1820850000
Type	WDU 50N BL
GTIN (EAN)	4032248317806
Qty.	10 pc(s).

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Technical data

Dimensions and weights

Depth	69.6 mm	Depth (inches)	2.74 inch
Depth including DIN rail	70.6 mm	Height	70 mm
Height (inches)	2.756 inch	Width	18.5 mm
Width (inches)	0.728 inch	Net weight	80.443 g

Temperatures

Storage temperature	-25 °C...55 °C	Ambient temperature	-5 °C...40 °C
Continuous operating temp., min.	-60 °C	Continuous operating temp., max.	130 °C

Material data

Material	Wemid	Colour	blue
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 ²	Max. voltage (IECEX)	690 V
Current (IECEX)	126 A	Wire cross section max. (IECEX)	50 mm ²
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	End cover plate required	No
Number of potentials	1	Number of levels	1
Number 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	Yes
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, max.	16 mm ²	Cross-section for connected wire, stranded, two 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	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, two clampable wires, min.	6 mm ²	Wire cross-section, finely stranded, two clampable wires, max.	16 mm ²

Additional technical data

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

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CSA rating data

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

Current size B (CSA)	150 A
Current size D (CSA)	5 A
Voltage size C (CSA)	600 V
Wire cross section max. (CSA)	0 AWG

Conductors for clamping (additional connection)

Connection type, additional connection Screw connection

Conductors for clamping (rated connection)

Blade size	S4 (DIN 6911)
Clamping range, min.	10 mm ²
Connection cross-section, stranded, max.	70 mm ²
Connection direction	on side
Number of connections	2
Tightening torque, max.	6 Nm
Type of connection	Screw connection
Wire connection cross section AWG, min.	AWG 8
Wire connection cross section, finely stranded, min.	10 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	6 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	10 mm ²
Wire connection cross-section, solid core, min.	6 mm ²

Clamping range, max.	70 mm ²
Clamping screw	M 6
Connection cross-section, stranded, min.	6 mm ²
Gauge to IEC 60947-1	B10
Stripping length	24 mm
Tightening torque, min.	3.5 Nm
Wire connection cross section AWG, max.	AWG 0
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 46228/4, max.	50 mm ²
Wire connection cross-section, solid core, max.	16 mm ²

Dimensions

TS 35 offset	40 mm
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General

Installation advice	Direct mounting
Standards	IEC 60947-7-1
Wire connection cross section AWG, min.	AWG 8

Rail	TS 35
Wire connection cross section AWG, max.	AWG 0

Rating data

Rated cross-section	50 mm ²
Rated DC voltage	1,000 V
Current at maximum wires	192 A
Volume resistance according to IEC 60947-7-x	0.21 mΩ
Power loss in accordance with IEC 60947-7-x	4.8 W
Surge voltage category	III

Rated voltage	1,000 V
Rated current	150 A
Standards	IEC 60947-7-1
Rated impulse withstand voltage	8 kV
Pollution severity	3

Creation date May 16, 2025 1:25:43 AM CEST

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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	Current size C (UR)	150 A
Voltage size C (UR)	600 V		

Classifications

ETIM 6.0	EC000897	ETIM 7.0	EC000897
ETIM 8.0	EC000897	ETIM 9.0	EC000897
ETIM 10.0	EC000897	ECLASS 9.0	27-14-11-20
ECLASS 9.1	27-14-11-20	ECLASS 10.0	27-14-11-20
ECLASS 11.0	27-14-11-20	ECLASS 12.0	27-14-11-20
ECLASS 13.0	27-25-01-01	ECLASS 14.0	27-25-01-01
ECLASS 15.0	27-25-01-01		

Cradle to gate

1.098 kg CO₂eq.

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%
Product Carbon Footprint	de.myview.objectmodel.impl.BlockImpl@469f98b8

Approvals

Approvals



Approvals MAMID	https://mdcop.weidmueller.com/mediadelivery/rendition/900_319217/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319226/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319231/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319213/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319240/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319242/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319244/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319260/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319262/-T1z1mm-S800/
ROHS	Conform
UL File Number Search	UL Website
Certificate No. (UR)	E60693
Certificate No. (cURusEX)	E184763

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Approval/Certificate/Document of Conformity	Attestation of Conformity
	IECEX Certificate
	UKCA Ex Attestation of Conformity
	UKCA Ex Certificate
	CCC Ex Certificate
	CE Declaration of Conformity
	ATEX Certificate
	UKCA declaration of conformity
Engineering Data	Confirmation of Standards EN 45545-2_2020-10
	CAD data – STEP
User Documentation	NTI WDU/WPE 50N
	StorageConditionsTerminalBlocks
	Instruction
	Instruction
	User documentation WZAD
Catalogues	Catalogues in PDF-format
Brochures	

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Drawings
