W-Series
WDU 50N IR BL

Weidmüller Interface GmbH & Co. KG
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Product image



Power feed-in
Our wide range of W-Series terminal blocks with our WPD main line branch terminals, which are optimised to guarantee both convenience and space gains, ensures a secure and convenient connection at the power feed-in.

General ordering data

Type	WDU 50N IR BL
Order No.	1422440000
Version	Feed-through terminal, Screw connection, 50 mm², 1000 V, 150 A, blue
GTIN (EAN)	4050118226133
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	84.5 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	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 mm²	Max. voltage (IECEX)	690 V
Current (IECEX)	126 A	Wire cross section max. (IECEX)	50 mm²
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	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, min.	6 mm²	Cross-section for connected wire, stranded, two clampable wires, max.	16 mm²
Wire connection cross section, finely stranded, two clampable wires, min.	6 mm²	Wire cross-section, finely stranded, two clampable wires, max.	16 mm²
Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, min.	6 mm²	Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, max.	16 mm²

Additional technical data

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 mm²
Clamping range, min.	10 mm²	Clamping screw	M 6
Connection cross-section, stranded, max.	70 mm²	Connection cross-section, stranded, min.	10 mm²
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 mm²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	50 mm²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	10 mm²
Wire connection cross-section, finely stranded, min.	10 mm²	Wire connection cross-section, solid core, max.	16 mm²
Wire connection cross-section, solid core, min.	10 mm²		

Rating data

Rated cross-section	50 mm²	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 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	ATEX EAC IEC EX
ROHS	Conform

Downloads

Approval/Certificate/Document of Conformity	IECEx Certificate DE_PT1001_20160418_809_ISSUE01.pdf ATEX Certificate
Engineering Data	EPLAN, WSCAD, Zuken E3.S
Engineering Data	STEP
User Documentation	NTI WDU/WPE 50N

Safety note

Safety notice	Safety Information

Creation date May 27, 2019 6:19:05 PM CEST