

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

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image

More and more components need to be housed within a confined space, in switchgear and panels. As part of the power feed-in, connecting conductors is becoming increasingly challenging, especially for large cross-sections. Our comprehensive range of connection solutions also enables convenient wiring in challenging space conditions. The compact design and the combination of many practical handling benefits make the supply of power to switchgear and panels simple, efficient, and space-saving.

General ordering data

Version	Feed-through terminal block, Screw connection, black, 50 mm ² , 150 A, 1000 V, Number of connections: 2
Order No.	1298070000
Type	WDU 50N SW
GTIN (EAN)	4050118096347
Qty.	10 items

Technical data

Approvals

Approvals



ROHS Conform

Dimensions and weights

Depth	69.6 mm	Depth (inches)	2.7402 inch
Depth including DIN rail	70.6 mm	Height	70 mm
Height (inches)	2.7559 inch	Width	18.5 mm
Width (inches)	0.7283 inch	Net weight	84.5 g

Temperatures

Storage temperature	-25 °C...55 °C	Ambient temperature	-60 °C...85 °C
Continuous operating temp., min.	-60 °C	Continuous operating temp., max.	130 °C

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption		
REACH SVHC	No SVHC above 0.1 wt%		
Product Carbon Footprint	Cradle to gate	0,792 kg CO2 eq.	

Material data

Basic material	Wemid	Colour	black
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
Mounting rail	TS 35	N-function	No
PE function	No	PEN function	Yes

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Technical data

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

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 cross-section, finely stranded, two clampable wires, max.	16 mm ²	Wire connection cross section, finely stranded, two clampable wires, min.	6 mm ²
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

Additional technical data

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

Conductors for clamping (additional connection)

Connection type, additional connection Screw connection

Conductors for clamping (rated connection)

Gauge to IEC 60947-1	B10	Wire connection cross section AWG, max.	AWG 0
Connection direction	on side	Tightening torque, max.	6 Nm
Tightening torque, min.	3.5 Nm	Stripping length	24 mm
Type of connection	Screw connection	Number of connections	2
Clamping range, max.	70 mm ²	Clamping range, min.	10 mm ²
Clamping screw	M 6	Blade size	S4 (DIN 6911)
Wire connection cross section AWG, min.	AWG 8	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	50 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	10 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 46228/1, min.	10 mm ²	Wire connection cross section, finely stranded, max.	50 mm ²
Wire connection cross section, finely stranded, min.	10 mm ²	Connection cross-section, stranded, max.	70 mm ²
Connection cross-section, stranded, min.	10 mm ²	Wire connection cross-section, solid core, max.	16 mm ²
Wire connection cross-section, solid core, min.	10 mm ²	Connection cross-section, finely stranded, min.	10 mm ²

General

Wire connection cross section AWG, max.	AWG 0	Installation advice	Direct mounting
Wire connection cross section AWG, min.	AWG 8	Standards	IEC 60947-7-1
Mounting rail	TS 35		

Rating data

Rated cross-section	50 mm ²	Rated voltage	1000 V
Rated DC voltage	1000 V	Nominal 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

Technical data

Power loss in accordance with IEC 60947-7-x	4.80 W	Surge voltage category	III
Pollution severity	3		

Classifications

ETIM 8.0	EC000897	ETIM 9.0	EC000897
ETIM 10.0	EC000897	ECLASS 14.0	27-25-01-01
ECLASS 15.0	27-25-01-01		

Drawings

