Data sheet

WDU 95N/120N

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, dark beige, 120 mm², 269 A, 1000 V, Number of connections: 2
Order No.	1820550000
Type	WDU 95N/120N
GTIN (EAN)	4032248369300
Qty.	5 ST

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Technical data

Approvals

Approvals	
ROHS	Conform
UL File Number Search	UL Website
Certificate No. (UR)	E60693

Dimensions and weights

Depth	90 mm	Depth (inches)	3.5433 inch
Depth including DIN rail	91 mm	Height	91 mm
Height (inches)	3.5827 inch	Width	27 mm
Width (inches)	1.063 inch	Net weight	261.8 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

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

Material data

Material	Wemid	Colour	dark beige
UL 94 flammability rating	V-0		

Rating data IECEx/ATEX

Certificate No. (ATEX)	DEMKO14ATEX1338U	Certificate No. (IECEX)	IECEXULD14.0005U
Max. voltage (ATEX)	880 V	Current (ATEX)	221 A
Wire cross section max. (ATEX)	120 mm²	Max. voltage (IECEX)	880 V
Current (IECEX)	221 A	Wire cross section max. (IECEX)	120 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	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	No
PE function	No	PEN function	Yes

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

Cross-section for connected wire, solid, two clampable wires, max.	10 mm²	Cross-section for connected wire, solid, two clampable wires, min.	35 mm²
Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, max.	35 mm²	Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, min.	10 mm²
Wire cross-section, finely stranded, two clampable wires, max.	35 mm²	Wire connection cross section, finely stranded, two clampable wires, min.	16 mm²
Cross-section for connected wire, stranded, two clampable wires, max.	35 mm²	Cross-section for connected wire, stranded, two clampable wires, min.	10 mm²

Additional technical data

Open sides	closed	Number of similar terminals	1
Installation advice	Direct mounting	Explosion-tested version	Yes
Type of mounting	Snap-on		

CSA rating data

Wire cross section max. (CSA)	0000 AWG	Voltage size C (CSA)	1000 V
Current size C (CSA)	220 A	Certificate No. (CSA)	200039-1057876
Wire cross section min. (CSA)	4 AWG		

Conductors for clamping (additional connection)

Connection type, additional connection	Screw connection		

Conductors for clamping (rated connection)

Gauge to IEC 60947-1	B13	Wire connection cross section AWG, max.	kcmil 250
Connection direction	on side	Tightening torque, max.	20 Nm
Tightening torque, min.	12 Nm	Stripping length	27 mm
Type of connection	Screw connection	Number of connections	2
Clamping range, max.	150 mm²	Clamping range, min.	16 mm²
Clamping screw	M 10	Blade size	S6 (DIN 6911)
Wire connection cross section AWG, min.	AWG 4	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	95 mm²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	16 mm²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	95 mm²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	16 mm²	Wire connection cross section, finely stranded, max.	120 mm²
Wire connection cross section, finely stranded, min.	16 mm²	Connection cross-section, stranded, max.	150 mm²
Connection cross-section, stranded, min.	16 mm²	Wire connection cross-section, solid core, max.	16 mm²
Wire connection cross-section, solid core, min.	16 mm²		

Dimensions

TS 32 offset	64.5 mm

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Technical data

General

Wire connection cross section AWG, max.	kcmil 250	Installation advice	Direct mounting
Wire connection cross section AWG, min.	AWG 4	Standards	IEC 60947-7-1
Rail	TS 35		

Rating data

Rated cross-section	120 mm²	Rated voltage	1000 V
Rated DC voltage	1000 V	Rated current	269 A
Current at maximum wires	290 A	Standards	IEC 60947-7-1
Volume resistance according to IEC 60947-7-x	0.12 mΩ	Rated impulse withstand voltage	8 kV
Power loss in accordance with IEC 60947-7-x	8.61 W	Pollution severity	3

UL rating data

Wire cross section min. (UR)	4 AWG	Wire cross section max. (UR)	250 kcmil
Conductor size Factory wiring max. (UR)	250 kcmil	Current size C (UR)	228 A
Voltage size C (UR)	1000 V	Conductor size Factory wiring min. (UR)	4 AWG
Certificate No. (UR)	E60693	Conductor size Field wiring min. (UR)	4 AWG
Conductor size Field wiring max. (UR)	250 kcmil		

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		

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Drawings