

WDU 2.5/1.5/ZR 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, 2.5 mm ² , 24 A, 800 V, Number of connections: 1
Order No.	1024780000
Type	WDU 2.5/1.5/ZR BL
GTIN (EAN)	4008190173586
Qty.	100 pc(s).

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Technical data

Dimensions and weights

Depth	46.5 mm	Depth (inches)	1.831 inch
Height	60 mm	Height (inches)	2.362 inch
Width	5.1 mm	Width (inches)	0.201 inch
Net weight	7.5 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. (IECEX)	IECEXULD14.0005U	Max. voltage (IECEX)	550 V
Current (IECEX)	20 A	Wire cross section max. (IECEX)	2.5 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, Additional connection, for screwable cross-connection, One end without connector	End cover plate required	Yes
Number of potentials	1	Number of levels	1
Number of clamping points per level	3	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	No

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

Cross-section for connected wire, solid, two clampable wires, max.	2.5 mm ²	Cross-section for connected wire, solid, two clampable wires, min.	0.5 mm ²
Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, max.	1.5 mm ²	Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, min.	0.5 mm ²
Wire connection cross section, finely stranded, two clampable wires, min.	0.5 mm ²	Wire cross-section, finely stranded, two clampable wires, max.	1.5 mm ²

Additional technical data

Explosion-tested version	Yes	Number of similar terminals	1
Open sides	right	Type of mounting	Snap-on

CSA rating data

Certificate No. (CSA)	12400-240	Current size C (CSA)	20 A
Voltage size C (CSA)	300 V	Wire cross section max. (CSA)	14 AWG
Wire cross section min. (CSA)	26 AWG		

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Technical data**Conductors for clamping (additional connection)**

Blade size, additional connection	SD 0.6 x 3.5	Clamping range, further connection, max.	2.5 mm ²
Clamping range, further connection, min.	0.13 mm ²	Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, max.	1.5 mm ²
Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, min.	0.5 mm ²	Conductor cross-section, flexible, further connection, min.	0.5 mm ²
Connection direction	on side	Connection type, additional connection	Screw connection
Cross-section for connected wire, AWG, additional connection, max.	AWG 12	Cross-section for connected wire, AWG, additional connection, min.	AWG 26
Cross-section for connected wire, flexible, further connection, max.	1.5 mm ²	Cross-section for connected wire, multi-core, further connection, max.	2.5 mm ²
Cross-section for connected wire, multi-core, further connection, min.	0.5 mm ²	Cross-section for connected wire, solid-core, further connection, max.	2.5 mm ²
Cross-section for connected wire, solid-core, further connection, min.	0.5 mm ²	Number of connections, additional connection	2
Rated cross-section, further connection	1.5 mm ²	Rated current, additional connection	17.5 A
Stripping length, additional connection	7 mm	Terminal screw, additional connection	M 2.5
Tightening torque, additional connection, max.	0.6 Nm	Tightening torque, additional connection, min.	0.4 Nm

Conductors for clamping (rated connection)

Blade size	0.6 x 3.5 mm
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Clampable conductor	Connection specification		Screw connection		
	Cross-section for conductor connection	Type	solid, H05(07) V-U		
		min.	0.5 mm ²		
		max.	4 mm ²		
		nominal	2.5 mm ²		
	wire end ferrule	Stripping length	min.	10 mm	
			max.	10 mm	
			nominal	10 mm	
		Tightening torque	min.	0.4 Nm	
			max.	0.6 Nm	
		Recommended wire-end ferrule			
		Connection specification		Screw connection	
	Cross-section for conductor connection	Type	stranded, H07V-R		
		min.	1.5 mm ²		
		max.	4 mm ²		
		nominal	2.5 mm ²		
	wire end ferrule	Stripping length	min.	10 mm	
			max.	10 mm	
			nominal	10 mm	
		Tightening torque	min.	0.4 Nm	
			max.	0.6 Nm	
		Recommended wire-end ferrule			
		Connection specification		Screw connection	
	Cross-section for conductor connection	Type	flexible, H05(07) V-K		
		min.	0.5 mm ²		
		max.	4 mm ²		
		nominal	2.5 mm ²		
wire end ferrule	Stripping length	min.	10 mm		
		max.	10 mm		
		nominal	10 mm		
	Tightening torque	min.	0.4 Nm		
		max.	0.6 Nm		
	Recommended wire-end ferrule				
	Clamping range, max.		4 mm ²		
Clamping range, min.		0.05 mm ²			
Clamping screw		M 2.5			
Connection cross-section, stranded, max.		4 mm ²			
Connection cross-section, stranded, min.		1.5 mm ²			
Connection direction		on side			
Gauge to IEC 60947-1		A3, A1			
Number of connections		1			
Stripping length		10 mm			
Tightening torque, max.		0.6 Nm			
Tightening torque, min.		0.4 Nm			
Torque level with DMS electric screw-driver		1			
Twin wire-end ferrules, max.		1.5 mm ²			
Twin wire-end ferrules, min.		0.5 mm ²			
Type of connection		Screw connection			
Wire connection cross section AWG, max.		AWG 12			
Wire connection cross section AWG, min.		AWG 30			
Wire connection cross section, finely stranded, max.		4 mm ²			

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Wire connection cross section, finely stranded, min.	0.5 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	2.5 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	0.5 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	2.5 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.5 mm ²
Wire connection cross-section, solid core, max.	4 mm ²
Wire connection cross-section, solid core, min.	0.5 mm ²

General

Rail	TS 35	Standards	IEC 60947-7-1
Wire connection cross section AWG, max.	AWG 12	Wire connection cross section AWG, min.	AWG 30

Rating data

Rated cross-section	2.5 mm ²	Rated voltage	800 V
Rated DC voltage	800 V	Rated current	24 A
Current at maximum wires	32 A	Standards	IEC 60947-7-1
Volume resistance according to IEC 60947-7-x	1.33 mΩ	Rated impulse withstand voltage	8 kV
Power loss in accordance with IEC 60947-7-x	0.77 W	Pollution severity	3
Surge voltage category	III		

UL rating data

Certificate No. (UR)	E60693	Conductor size Factory wiring max. (UR)	12 AWG
Conductor size Factory wiring min. (UR)	30 AWG	Conductor size Field wiring max. (UR)	12 AWG
Conductor size Field wiring min. (UR)	30 AWG	Current size B (UR)	20 A
Current size C (UR)	20 A	Voltage size B (UR)	300 V
Voltage size C (UR)	300 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

0.107 kg CO₂eq.

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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@39789576

Approvals

Approvals



Approvals MAMID

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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
	NEMKO certificate
	Lloyds Register Certificate
	POLSKIREJ certificate
	UKCA Ex Certificate
	DNV Certificate
	CCC Ex Certificate
	CE Declaration of Conformity
	ATEX Certificate
	UKCA declaration of conformity
	Confirmation of Standards EN 45545-2_2020-10
Engineering Data	CAD data – STEP
User Documentation	NTI WDU/WPE 2.5 1.5 ZR
	StorageConditionsTerminalBlocks
Catalogues	Catalogues in PDF-format
Brochures	

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Drawings

