

**WDU 6 GN****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, green, 6 mm <sup>2</sup> , 41 A, 800 V, Number of connections: 2, Number of levels: 1, TS 35, V-0, Wemid, 130 °C
Order No.	<a href="#">1020290000</a>
Type	WDU 6 GN
GTIN (EAN)	4008190861292
Qty.	100 pc(s).

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## Technical data

### Dimensions and weights

Depth	46.5 mm	Depth (inches)	1.831 inch
Depth including DIN rail	47 mm	Height	60 mm
Height (inches)	2.362 inch	Width	7.9 mm
Width (inches)	0.311 inch	Net weight	12 g

### Temperatures

Storage temperature		Operating temperature range	For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity
	-25 °C...55 °C		
Continuous operating temp., min.	-60 °C	Continuous operating temp., max.	130 °C

### Material data

Material	Wemid	Colour	green
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)	41 A
Wire cross section max. (ATEX)	10 mm <sup>2</sup>	Max. voltage (IECEX)	690 V
Current (IECEX)	41 A	Wire cross section max. (IECEX)	10 mm <sup>2</sup>
Operating temperature range	For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity	Marking EN 60079-7	
Ex 2014/34/EU label	II 2 G D		Ex eb II C Gb

### System specifications

Version	Screw 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	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	No

### 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.	2.5 mm <sup>2</sup>	Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, min.	0.5 mm <sup>2</sup>
Wire connection cross section, finely stranded, two clampable wires, min.	0.5 mm <sup>2</sup>	Wire cross-section, finely stranded, two clampable wires, max.	2.5 mm <sup>2</sup>

### Additional technical data

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

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### CSA rating data

Certificate No. (CSA)	200039-1057876	Current size C (CSA)	50 A
Voltage size C (CSA)	600 V	Wire cross section max. (CSA)	8 AWG
Wire cross section min. (CSA)	22 AWG		

### Conductors for clamping (additional connection)

Connection type, additional connection Screw connection

### Conductors for clamping (rated connection)

Blade size	0.8 x 4.0 mm		
Clampable conductor	Connection specification		Screw connection
	Cross-section for conductor connection		Type solid, H05(07) V-U
			min. 0.5 mm <sup>2</sup>
			max. 10 mm <sup>2</sup>
			nominal 6 mm <sup>2</sup>
	wire end ferrule		Stripping length
			min. 12 mm
			max. 12 mm
			nominal 12 mm
			Tightening torque
			min. 0.8 Nm
			max. 1.6 Nm
			Recommended wire-end ferrule
	Connection specification		Screw connection
	Cross-section for conductor connection		Type stranded, H07V-R
			min. 1.5 mm <sup>2</sup>
			max. 10 mm <sup>2</sup>
			nominal 6 mm <sup>2</sup>
	wire end ferrule		Stripping length
			min. 12 mm
		max. 12 mm	
		nominal 12 mm	
		Tightening torque	
		min. 0.8 Nm	
		max. 1.6 Nm	
		Recommended wire-end ferrule	
Connection specification		Screw connection	
Cross-section for conductor connection		Type flexible, H05(07) V-K	
		min. 0.5 mm <sup>2</sup>	
		max. 10 mm <sup>2</sup>	
		nominal 6 mm <sup>2</sup>	
wire end ferrule		Stripping length	
		min. 12 mm	
		max. 12 mm	
		nominal 12 mm	
		Tightening torque	
		min. 0.8 Nm	
		max. 1.6 Nm	
		Recommended wire-end ferrule	
Clamping range, max.	10 mm <sup>2</sup>		
Clamping range, min.	0.22 mm <sup>2</sup>		
Clamping screw	M 3.5		
Connection cross-section, stranded, max.	10 mm <sup>2</sup>		
Connection cross-section, stranded, min.	1.5 mm <sup>2</sup>		
Connection direction	on side		
Gauge to IEC 60947-1	A5		

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Number of connections	2
Stripping length	12 mm
Tightening torque, max.	1.6 Nm
Tightening torque, min.	0.8 Nm
Torque level with DMS electric screw-driver	3
Twin wire-end ferrules, max.	4 mm <sup>2</sup>
Twin wire-end ferrules, min.	0.5 mm <sup>2</sup>
Type of connection	Screw connection
Wire connection cross section AWG, max.	AWG 8
Wire connection cross section AWG, min.	AWG 26
Wire connection cross section, finely stranded, max.	10 mm <sup>2</sup>
Wire connection cross section, finely stranded, min.	0.5 mm <sup>2</sup>
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	6 mm <sup>2</sup>
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	0.5 mm <sup>2</sup>
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	6 mm <sup>2</sup>
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.5 mm <sup>2</sup>
Wire connection cross-section, solid core, max.	10 mm <sup>2</sup>
Wire connection cross-section, solid core, min.	0.5 mm <sup>2</sup>

## Dimensions

TS 35 offset	32 mm
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## General

Rail	TS 35	Standards	IEC 60947-7-1
Wire connection cross section AWG, max.	AWG 8	Wire connection cross section AWG, min.	AWG 26

## Rating data

Rated cross-section	6 mm <sup>2</sup>	Rated voltage	800 V
Rated DC voltage	800 V	Rated current	41 A
Current at maximum wires	57 A	Standards	IEC 60947-7-1
Volume resistance according to IEC 60947-7-x	0.78 mΩ	Rated impulse withstand voltage	8 kV
Power loss in accordance with IEC 60947-7-x	1.31 W	Pollution severity	3

## UL rating data

Certificate No. (UR)	E60693	Conductor size Factory wiring max. (UR)	8 AWG
Conductor size Factory wiring min. (UR)	22 AWG	Conductor size Field wiring max. (UR)	8 AWG
Conductor size Field wiring min. (UR)	22 AWG	Current size C (UR)	50 A
Voltage size C (UR)	600 V		

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### Classifications

ETIM 6.0	EC000897	ETIM 7.0	EC000897
ETIM 8.0	EC000897	ETIM 9.0	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		

### Environmental Product Compliance

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

### Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (UR)	E60693
Certificate No. (cURusEX)	E184763

### Downloads

Approval/Certificate/Document of Conformity	<a href="#">Attestation of Conformity</a> <a href="#">IECEX Certificate</a> <a href="#">UKCA Ex Attestation of Conformity</a> <a href="#">CB Testreport</a> <a href="#">CB Certificate</a> <a href="#">NEMKO certificate</a> <a href="#">Lloyds Register Certificate</a> <a href="#">POLSKIREJ certificate</a> <a href="#">UKCA Ex Certificate</a> <a href="#">16-AV4B0-0265U.</a> <a href="#">DNV Certificate</a> <a href="#">CCC Ex Certificate</a> <a href="#">CE Declaration of Conformity</a> <a href="#">ATEX Certificate</a> <a href="#">UKCA declaration of conformity</a> <a href="#">Confirmation of Standards EN 45545-2_2020-10</a>
Engineering Data	<a href="#">CAD data – STEP</a>
User Documentation	<a href="#">NTI WDU/WPE 6</a> <a href="#">StorageConditionsTerminalBlocks</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>

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**Data sheet**

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**Drawings**

