



Color: I green-yellow

Ground terminal block, 285 Series, green-yellow

Our ground terminal block (item number 285-137) makes connections quick and easy. Strip lengths must be 25 mm when connecting conductors to this ground terminal block. This product features conductor terminals and utilizes POWER CAGE CLAMP. The POWER CAGE CLAMP is a powerful, maintenance-free, and universal way to connect large conductor cross-sections. It's also suitable for all conductor types. The clamping point can be locked open and you do not need to use a torque wrench or prepare the conductor in any way, e.g., by crimping the ferrule. This ground terminal block is suitable for conductor cross sections ranging from 6 mm² to 35 mm². It has one level. You can connect a single potential using the two clamping points. The green-yellow housing is made of polyamide (PA66) for insulation. These high-current terminal blocks are mounted using DIN-rails 35 x 15.

onnection data			
Clamping units	2	Connection 1	
Total number of potentials	1	Connection technology	POWER CAGE CLAMP
Number of levels	1	Actuation type	Operating tool
Number of jumper slots	2	Connectable conductor materials	Copper
		Nominal cross-section	35 mm ²
		Solid conductor	6 35 mm² / 8 2 AWG
		Stranded conductor	6 35 mm² / 8 2 AWG
		Fine-stranded conductor	6 35 mm² / 8 2 AWG
		Fine-stranded conductor; with insulated ferrule	6 35 mm² / 8 2 AWG
		Fine-stranded conductor; with uninsula- ted ferrule	6 35 mm² / 8 2 AWG
		Strip length	25 mm / 0.98 inches
		Wiring direction	Side-entry wiring
Physical data			
Width		16 mm / 0.63 inches	

Width	16 mm / 0.63 inches
Height	86 mm / 3.386 inches
Depth from upper-edge of DIN-rail	63 mm / 2.48 inches

Data Sheet | Item Number: 285-137 https://www.wago.com/285-137

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Mechanical data	
Mounting type	DIN-rail 35 x 15
Mounting (note)	only suitable for DIN 35 x 15 rail
Marking level	Side marking

Material data	
Note (material data)	
	Information on material specifications can be found here
Color	green-yellow
Material group	1
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	Vo
Fire load	0.154 MJ
Weight	108.3 g

cessing temperature	-35 +85 ℃	Environmental Testing (Enviror	mental Conditions)
Continuous operating temperature	-60 +105 °C	Test specification Railway applications – Rolling stock – Electronic equipment	DIN EN 50155 (VDE 0115-200):2022-06
		Test procedure Railway applications – Rolling stock equipment – Shock and vibration tests	DIN EN 61373 (VDE 0115-0106):2011-04
		Spectrum/Installation location	Service life test, Category 1, Class A/B
		Function test with noise-like vibration	Test passed according to Section 8 of the standard
		Frequency	$f_1 = 5 Hz \text{ to } f_2 = 150 Hz$ $f_1 = 5 Hz \text{ to } f_2 = 150 Hz$
		Acceleration	0.101g (highest test level used for all axes) 0.572g (highest test level used for all axes) 5g (highest test level used for all axes)
		Test duration per axis	10 min. 5 h
		Test directions	X, Y and Z axes X, Y and Z axes X, Y and Z axes
		Monitoring for contact faults/interrupions	i- Passed
		Voltage drop measurement before an after each axis	d Passed
		Simulated service life test through inc ased levels of noise-like vibration	re- Test passed according to Section 9 of the standard
		Extended test scope: Monitoring for c tact faults/interruptions	on- Passed Passed
		Extended test scope: Voltage drop me surement before and after each axis	ea- Passed Passed
		Shock test	Test passed according to Section 10 of the standard
		Shock form	Halfsine
		Shock duration	30 ms
		Number of shocks per axis	3 pos. und 3 neg.
		Vibration and shock stress for rolling stock equipment	Passed

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Commercial data	
Product Group	1 (Rail Mounted Terminal Blocks)
PU (SPU)	15 pcs
Packaging type	Box
Country of origin	PL
GTIN	4045454507404
Customs tariff number	85369010000

UNSPSC	39121410

Environmental Product Compliance	
RoHS Compliance Status C	Compliant,No Exemption

Approvals / Certificates

Product classification

General approvals



Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR NL-7707
CSA DEKRA Certification B.V.	C22.2 No. 158	154112
KEMA/KEUR DEKRA Certification B.V.	EN 60947	71-105562
UL Underwriters Laboratories Inc.	UL 1059	E45172

Declarations of conformity and manufacturer's declarations



Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
Railway WAGO GmbH & Co. KG	-	Z00004420.000
UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-

Approvals for marine applications

Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	EN 60947	20-HG1941090-PDA
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00001V2
LR Lloyds Register	EN 60947	91/20112 (E9)

Approvals for hazardous areas

AEx

Approval	Standard	Certificate Name
AEx Underwriters Laboratories Inc.	-	E185892 (AEx eb II C resp. Ex eb II C)

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Downloads	
Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 285-137	\downarrow

Documentation						
Additional Information			Bid Text			
Technical Section	pdf 2246.92 KB	<u> </u>	285-137	19.02.2019	xml 3.08 KB	\downarrow
			285-137	04.01.2018	doc 23.50 KB	\downarrow

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 285-137	EPLAN Data Portal 285-137
	WSCAD Universe 285-137
	ZUKEN Portal 285-137

1 Compatible Products		
1.1 Optional Accessories		
1.1.1 Cover		
1.1.1.1 Cover		
1		
Item No.: 285-421 Finger guard; touchproof cover protects unused conductor entries; for 35 mm ² high-current tbs; yellow		



1.1.2.1 Mounting accessories

Item No.: 210-198 Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN

60715; copper-colored

Item No.: 210-114 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored



Item No.: 210-508 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715; silver-colored



Item No.: 210-118 Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored



Item No.: 210-197 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored



Item No.: 210-506 Stool corrier rail: 25 x 1

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715; silver-colored

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1.1.3.1 Ferrule

Item No.: 216-413

Ferrule; Sleeve for 25 mm² / AWG 4; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored Item No.: 216-414 Ferrule; Sleeve for 35 mm² / AWG 2; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored

1.1.4 Installation

1.1.4.1 Mounting accessories



Item No.: 249-117 Screwless end stop; 10 mm wide; for DINrail 35 x 15 and 35 x 7.5; gray Item No.: 249-197 Screwless end stop; 14 mm wide; for DINrail 35 x 15 and 35 x 7.5; gray

1.1.5 Jumper

1.1.5.1 Jumper

Item No.: 285-435 Jumper; insulated; gray



Item No.: 285-430 Step-down jumper; from 285 (35mm²) to 2016/2010 series; insulated; gray

1.1.6 Marking

1.1.6.1 Group marker carrier



Item No.: 249-105 Group marker carrier; gray



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1.1.9 Test and measurement

1.1.9.1 Testing accessories

Item No.: 283-404 Test plug adapter; 11.6 mm wide; for 4 mm Ø test plugs; gray

1.1.10 Tool

1.1.10.1 Operating tool



Item No.: 210-721 Operating tool; Blade: 5.5 x 0.8 mm; with a partially insulated shaft; multicoloured

Installation Notes

Installation





Removing a terminal block from the assembly (to the left or to the right).



Conductor termination



Conductor termination – step 1: Rotate the operating tool (5.5 mm blade width) counter-clockwise. Next, push in the orange locking tab. The clamp is locked open for hands-free wiring.



Conductor termination – step 2: Insert a stripped conductor into the clamping unit until it hits the backstop. Hold in this position.



Conductor termination – step 3: A short counter-clockwise rotation closes the clamp, securing the conductor . When unlocked, allow the operating tool to rotate clockwise to securely terminate the conductor.



Side-entry wiring means that even larger conductors, which have limited flexibility, can be easily connected.

Commoning



Commoning adjacent terminal blocks using a centrally positioned push-in jumper.



Slide the marking strip laterally to remove the jumper.



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Power tap





The power tap is inserted into the jumper contact slot. It can be fitted with a strain relief plate.



Power tap inserted in a jumper contact slot



Always push voltage tap (Item No. 283-407) down into the terminal block until fully inserted!

Testing



Testing Voltage measurements can be performed, e.g., using a 2-pole voltage tester (Item No. 206-707).



Testing with test plug adapter (Item No. 283-404).

Marking



WMB markers or self-adhesive, printable marking strips can be accommodated on 35, 50 and 95 mm² high-current terminal blocks.



Marker carrier (Item No. 285-442) for marking strips (Item No. 2009-110) or 2 WMB markers for 285-13x, 285-15x and 285-19x Terminal Blocks

Subject to changes. Please also observe the further product documentation!