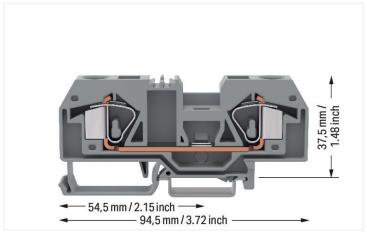
2-conductor through terminal block; 16 mm²; center marking; for DIN-rail 35 x 15 and 35 x 7.5; CAGE CLAMP[®]; 16,00 mm²; gray



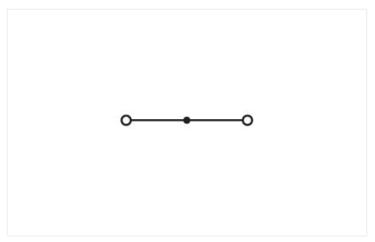
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Color: ■ gray





Similar to illustration

Through terminal block, 283 Series, operating tool

Easily, quickly and safely connect conductors with this through terminal block (item number 283-901). Whether in industrial or building applications, our rail-mount through terminal blocks are the perfect solution to quickly and securely connect electrical conductors. Depending on the version, you can use them for either typical through-wiring or potential distribution. Our through rail-mount terminal block is rated for 800 V and is designed to handle a rated current of up to 76 A. Conductors should only be connected to this through terminal block if their strip length is between 16 mm and 17 mm. This product incorporates conductor terminals and utilizes CAGE CLAMP®. Our proven universal connection known as CAGE CLAMP® is the industry standard when it comes to connection technology and electrical interconnections. This through terminal block is suitable for conductor cross sections ranging from 0.2 mm² to 16 mm². It has one level. The single potential can connect using the two clamping points The gray housing is made of polyamide (PA66) for insulation. An operating tool is used to operate this through rail-mount terminal block. These through rail-mount terminal blocks are mounted using DIN-35 rails.. The front-entry wiring allows you to connect copper conductors.

Electrical data			
Ratings per	IEC/	EN 60947-	7-1
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	800 V	-	-
Rated surge voltage	8 kV	-	-
Rated current	76 A	-	-

Power Loss	
Power loss, per pole (potential)	2.4259 W
Rated current I_N for specified power loss	76 A
Resistance value for specified, current- dependent power loss	0.00042 Ω



nection data				
mping units	2	Conn	nection 1	
tal number of potentials	1	Conne	ection technology	CAGE CLAMP®
umber of levels	1	Actua	tion type	Operating tool
		Conne	ectable conductor materials	Copper
		Nomin	nal cross-section	16 mm²
		Solid	conductor	0.2 16 mm² / 24 6 AWG
		Fine-s	tranded conductor	0.2 16 mm² / 24 6 AWG
		Strip le	ength	16 17 mm / 0.63 0.67 inches
		Wiring	direction	Front-entry wiring

Physical data	
Width	12 mm / 0.472 inches
Height	94.5 mm / 3.72 inches
Depth from upper-edge of DIN-rail	37.5 mm / 1.476 inches

Mechanical data	
Mounting type	DIN-35 rail
Marking level	Center marking

Material data	
Note (material data)	
	Information on material specifications can be found here
Color	gray
Material group	
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.536 MJ
Weight	35.6 g

Environmental requirements	
Processing temperature	-35 +85 °C
Continuous operating temperature	-60 +105 °C

Commercial data	
Product Group	1 (Rail Mounted Terminal Blocks)
eCl@ss 10.0	27-14-11-20
eCl@ss 9.0	27-14-11-20
ETIM 9.0	EC000897
ETIM 8.0	EC000897
PU (SPU)	20 pcs
Packaging type	Box
Country of origin	DE
GTIN	4044918297615
Customs tariff number	85369010000

https://www.wago.com/283-901



Environmental Product Compliance

RoHS Compliance Status Compliant,No Exemption

Approvals / Certificates

General approvals







Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR NL 7895
CSA DEKRA Certification B.V.	C22.2 No. 158	1536072
KEMA/KEUR DEKRA Certification B.V.	EN 60947	71-120777
UL UL International Germany GmbH	UL 1059	E45172

Declarations of conformity and manufacturer's declarations

Approval Standard Certificate Name

EU-Declaration of Conformity

WAGO GmbH & Co. KG

Approvals for marine applications







VERITAS		
Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	-	20-HG1941090-PDA
BV Bureau Veritas S.A.	EN 60947	07436/F0 BV
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00001V2

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 283-901



Documentation

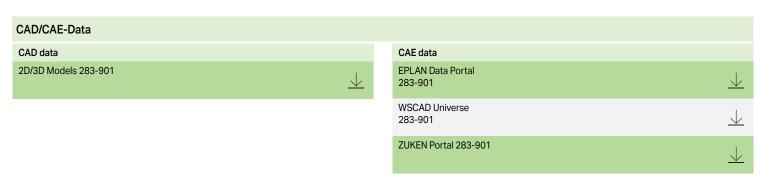
Additional Information

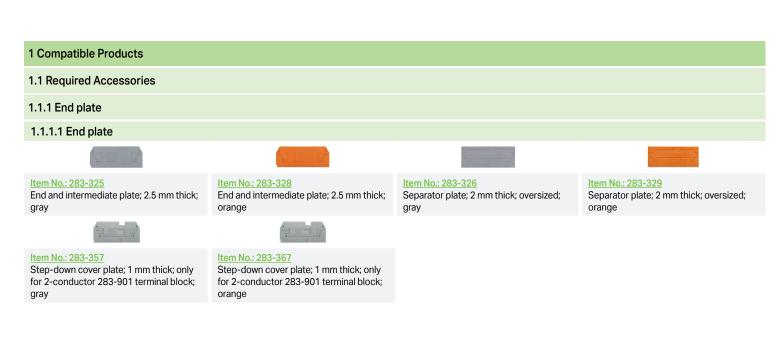
Technical Section pdf
2246.92 KB

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283-901	19.02.2019	xml 3.18 KB	<u>↓</u>
283-901	28.02.2017	doc 24.50 KB	$\overline{\downarrow}$

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1.2 Optional Accessories

1.2.1 Cover

1.2.1.1 Cover



Item No.: 283-400

Finger guard; touchproof cover protects unused conductor entries; yellow

1.2.2 DIN-rail

1.2.2.1 Mounting accessories



Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm

thick; 2 m long; unslotted; similar to EN

Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored



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



Item No.: 210-197

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

Item No.: 210-196

60715; silver-colored

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

Item No.: 210-198

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.: 210-118

Item No.: 210-508

Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored



Item No.: 210-115

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; $2\,m$ long; slotted; according to EN 60715; "Hole width 18 mm; silver-colored

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1.2.2.1 Mounting accessories



Item No.: 210-112

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm; silver-colored



Item No.: 210-504

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715; silver-colored



Item No.: 210-113

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored



Item No.: 210-505

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715; silver-colored

1.2.3 Ferrule

1.2.3.1 Ferrule

Item No.: 216-284



Ferrule; Sleeve for 1.5 mm² / AWG 16; in-

sulated; electro-tin plated; electrolytic

copper; gastight crimped; acc. to DIN

Item No.: 216-289

Ferrule; Sleeve for 10 mm² / AWG 8; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red



Item No.: 216-286

Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue



Item No.: 216-287

Ferrule; Sleeve for 4 mm² / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray



46228, Part 4/09.90; black

Ferrule; Sleeve for 6 mm² / AWG 10; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; yellow

1.2.4 Installation

1.2.4.1 Cover



Item No.: 709-154

Cover; Type 2; suitable for cover carrier, type 2; 1 m long; transparent

1.2.4.2 Cover carrier



Item No.: 709-168

Cover carrier; Type 2; incl. fixing/retaining screws and knurled nut; suitable for 283 to 285 Series rail-mounted terminal blocks; suitable for 279 to 281 Series double- and triple-deck terminal blocks; suitable for 780 to 785, 775, 776 and 777 Series TOPJOB® rail-mounted terminal blocks; suitable for 280 Series sensor and actuator terminal blocks; suitable for 282 Series disconnect/test terminal blocks for transformer circuits; gray

1.2.4.3 Mounting accessories





Item No.: 209-106

Mounting carrier; for isolated mounting on DIN 35 rails; gray

Item No.: 249-116

Screwless end stop; 6 mm wide; for DINrail 35 x 15 and 35 x 7.5; gray

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1.2.5 Jumper

1.2.5.1 Jumper

Item No.: 283-402



Item No.: 285-435



Item No.: 283-414

Step-down jumper; from 283 to 281 series; insulated; gray

1.2.6 Marking

1.2.6.1 Group marker carrier



Item No.: 249-105

1.2.6.2 Marker



Item No.: 793-5501/000-006

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 -5.2 mm; plain; snap-on type; blue



WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 -5.2 mm; plain; snap-on type; orange



Item No.: 793-5501/000-002

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 -5.2 mm; plain; snap-on type; yellow



Item No.: 793-501/000-017

WMB marking card; as card; not stretchable; plain; snap-on type; light green



Item No.: 793-501

WMB marking card; as card; not stretchable; plain; snap-on type; white



Item No.: 2009-115/000-023

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green



Item No.: 2009-115

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white



Item No.: 283-409

Jumper; insulated; gray



Jumper; insulated; gray



Item No.: 283-422

Jumper; insulated; yellow-green

Item No.: 793-5501/000-017

Item No.: 793-5501

WMB marking card; as card; for terminal

block width 5 - 17.5 mm; stretchable 5 -5.2 mm; plain; snap-on type; light green

WMB marking card; as card; for terminal

block width 5 - 17.5 mm; stretchable 5 -

WMB marking card; as card; not stretcha-

WMB marking card; as card; not stretcha-

5.2 mm; plain; snap-on type; white

Item No.: 793-501/000-023

ble; plain; snap-on type; green

Item No.: 793-501/000-024

ble; plain; snap-on type; violet



Group marker carrier; gray





Item No.: 793-5501/000-012





Item No.: 793-501/000-012

Item No.: 793-5501/000-007

Item No.: 793-5501/000-005

5.2 mm; plain; snap-on type; red

Item No.: 793-501/000-006

ble; plain; snap-on type; blue

WMB marking card; as card; for terminal

block width 5 - 17.5 mm; stretchable 5 -

WMB marking card; as card; for terminal

block width 5 - 17.5 mm; stretchable 5 -

WMB marking card; as card; not stretcha-

5.2 mm; plain; snap-on type; gray

WMB marking card; as card; not stretchable; plain; snap-on type; orange



Item No.: 793-501/000-002



WMB marking card; as card; not stretchable; plain; snap-on type; yellow



WMB-Inline; for Smart Printer; 1500 piesnap-on type; blue

Item No.: 2009-115/000-006

Item No.: 793-5501/000-023

Item No.: 793-5501/000-024

Item No.: 793-501/000-007

ble; plain; snap-on type; gray

Item No.: 793-501/000-005

ble; plain; snap-on type; red

WMB marking card; as card; for terminal

block width 5 - 17.5 mm; stretchable 5 -

WMB marking card; as card; for terminal

block width 5 - 17.5 mm; stretchable 5 -

WMB marking card; as card; not stretcha-

5.2 mm; plain; snap-on type; violet

5.2 mm; plain; snap-on type; green

ces on roll; stretchable 5 - 5.2 mm; plain;



WMB marking card; as card; not stretcha-

Item No.: 2009-115/000-007

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray



Item No.: 2009-115/000-012

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange



Item No.: 2009-115/000-024

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet



WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain;

Item No.: 2009-115/000-002

Item No.: 2009-115/000-017

snap-on type; light green

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

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1.2.7 Power tap

1.2.7.1 Power tap



Item No.: 283-407

Power tap; with 500 mm cable; for 16 mm² (283/783 Series) and 35 mm²; gray

1.2.8 Protective warning marker

1.2.8.1 Cover



Item No.: 283-415

Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow

1.2.9 Test and measurement

1.2.9.1 Testing accessories



Item No.: 283-404

Test plug adapter; 11.6 mm wide; for 4 mm Ø test plugs; gray

1.2.10 Tool

1.2.10.1 Operating tool



Item No.: 210-721

Operating tool; Blade: 5.5 x 0.8 mm; with a partially insulated shaft; multicoloured

Installation Notes

Installation



Snapping a terminal block onto the DIN-rail.



Quick assembly keys prevent reverse mounting.



Removing a terminal block from the assembly.



Steel DIN-rails are not suited for PEN (ground and N-conductor) applications per EN 60947-7-2 (VDE 0611, Part 3).

https://www.wago.com/283-901



Conductor termination



CAGE CLAMP® connection Inserting a conductor.



CAGE CLAMP® connection Inserting a conductor. With ferruled conductors, it is necessary to use a terminal block one size larger than the conductor's nominal cross-section



CAGE CLAMP® connection Removing a solid conductor.

Commoning



Commoning using an adjacent jumper. Push jumper down until fully inserted!



Commoning terminal blocks of different sizes via step-down jumpers.

Testing



Testing with a test plug. Picture shows a test plug adapter (209-170).

Cover



Protective warning markers inserted into the operating slots



Finger guard seals an unused conductor entry.

Marking



Labeling via WMB Multi Marking System.

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

Current addresses can be found at:: www.wago.com

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