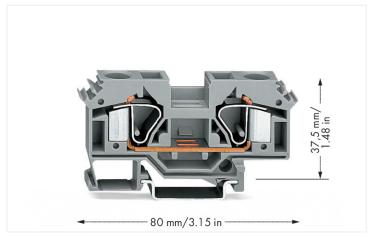
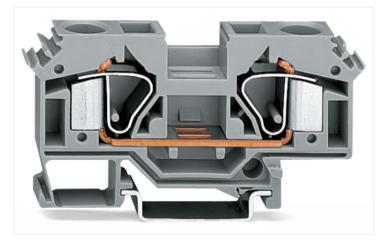
2-conductor through terminal block; 16 mm<sup>2</sup>; lateral marker slots; for DIN-rail 35 x 15 and 35 x 7.5; CAGE CLAMP®; 16,00 mm<sup>2</sup>; gray

MAGO

https://www.wago.com/283-601





Color: ■ gray

Through terminal block, 283 Series, CAGE CLAMP®

Connecting conductors is quick and easy with this through terminal block (item number 283-601). Whether for use in industry or building installations, our rail-mount through terminal blocks make it easy to quickly and securely connect electrical conductors. They're perfect for either classic throughwiring or distributing potential, depending on the variant. Our through rail-mount terminal block is rated for 800 V and is designed for use with a rated current of up to 76 A. Ensure that the strip lengths are between 16 mm and 17 mm when connecting conductors to this through terminal block. Featuring conductor terminals along with CAGE CLAMP®, this connector delivers reliable performance. Our tried-and-tested universal connection known as CAGE CLAMP® is industry-leading when it comes to connection technology and electrical interconnections. Depending on the type of conductor, this through terminal block is ideal for conductor cross sections ranging from 0.2 mm² to 16 mm². It features one level and two clamping points that you can use to connect a single potential. 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

Connection data		
Clamping units	2	
Total number of potentials	1	
Number of levels	1	

Connection 1	
Connection technology	CAGE CLAMP®
Actuation type	Operating tool
Connectable conductor materials	Copper
Solid conductor	0.2 16 mm² / 24 6 AWG
Fine-stranded conductor	0.2 16 mm² / 24 6 AWG
Strip length	16 17 mm / 0.63 0.67 inches
Wiring direction	Front-entry wiring

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#### Physical data

Width12 mm / 0.472 inchesHeight80 mm / 3.15 inchesDepth from upper-edge of DIN-rail37.5 mm / 1.476 inches

#### Mechanical data

Designhorizontal typeMounting typeDIN-35 railMarking levelSide marking

# Material data

Note (material data)

Information on material specifications can be found here

Color gray
Material group I

Insulation material (main housing) Polyamide (PA66)

Flammability class per UL94 V0
Fire load 0.468 MJ
Weight 31.8 g

# **Environmental requirements**

Processing temperature  $-35 \dots +85 \,^{\circ}\text{C}$ Continuous operating temperature  $-60 \dots +105 \,^{\circ}\text{C}$ 

# Commercial data

Product Group1 (Rail Mounted Terminal Blocks)PU (SPU)25 pcsPackaging typeBoxCountry of originCNGTIN4050821413134Customs tariff number85369010000

## **Product classification**

 UNSPSC
 39121410

 eCl@ss 10.0
 27-14-11-20

 eCl@ss 9.0
 27-14-11-20

 ETIM 9.0
 EC000897

 ETIM 8.0
 EC000897

 ECCN
 NO US CLASSIFICATION

## **Environmental Product Compliance**

RoHS Compliance Status Compliant, No Exemption

https://www.wago.com/283-601



# 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
UR 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







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 283-601



# CAD/CAE-Data CAD data CAE data 2D/3D Models 283-601 **EPLAN Data Portal** 283-601 WSCAD Universe 283-601 ZUKEN Portal 283-601

https://www.wago.com/283-601



#### 1 Compatible Products

#### 1.1 Required Accessories

#### 1.1.1 End plate

#### 1.1.1.1 End plate

Item No.: 283-316

arav



End and intermediate plate; 4 mm thick;

Item No.: 283-317

End and intermediate plate; 4 mm thick; orange



Item No.: 283-337

Separator plate; 2 mm thick; oversized; grav



Item No.: 283-327

Separator plate; 2 mm thick; oversized; orange



#### Item No.: 283-334

Step-down cover plate; 1 mm thick; only for 2-conductor 283-601 terminal block; gray

#### Item No.: 283-336

Step-down cover plate; 1 mm thick; only for 2-conductor 283-601 terminal block; orange

# 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



#### Item No.: 210-196

Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored



#### 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.: 210-508

Item No.: 210-118

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

Steel carrier rail; 35 x 15 mm; 2.3 mm

thick; 2 m long; unslotted; according to



#### 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

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



# Item No.: 210-114

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



# Item No.: 210-115

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



# 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

EN 60715; silver-colored

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



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

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#### 1.2.3 Ferrule

#### 1.2.3.1 Ferrule



Item No.: 216-284
Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; 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 mm<sup>2</sup> / 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 mm<sup>2</sup> / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray



Item No.: 216-288

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 TOP-JOB® 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





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



# <u>Item No.: 249-116</u>

Screwless end stop; 6 mm wide; for DIN-rail 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.: 283-409

Jumper; insulated; gray

Item No.: 285-435

Jumper; insulated; gray

Item No.: 283-422 Jumper; insulated; yellow-green



Jumper; insulated; gray

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

Group marker carrier; gray

#### 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



Item No.: 793-5501/000-012

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.: 793-5501/000-007

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



Item No.: 793-5501/000-005

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



Item No.: 793-501/000-006

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



Item No.: 793-501/000-012

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



Item No.: 2009-115/000-017

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



Item No.: 2009-115/000-002

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



Item No.: 793-5501/000-023

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



Item No.: 793-5501/000-024

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



Item No.: 793-501/000-007

Item No.: 793-501/000-005

ble; plain; snap-on type; red

Item No.: 2009-115/000-006

Item No.: 2009-115/000-012

snap-on type; orange

snap-on type; blue

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

WMB marking card; as card; not stretcha-

WMB-Inline; for Smart Printer; 1500 pie-

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

WMB-Inline; for Smart Printer; 1500 pie-

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





Item No.: 793-501/000-023

ble; plain; snap-on type; 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-

5.2 mm; plain; snap-on type; white

Item No.: 793-501/000-024 WMB marking card; as card; not stretcha-



ble; plain; snap-on type; violet

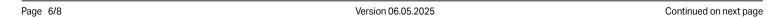
Item No.: 2009-115/000-007 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain;



Item No.: 2009-115/000-024

snap-on type; gray

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



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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).

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#### 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

# Marking



Labeling via WMB Multi Marking System.

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

Current addresses can be found at::  $\underline{www.wago.com}$ 

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