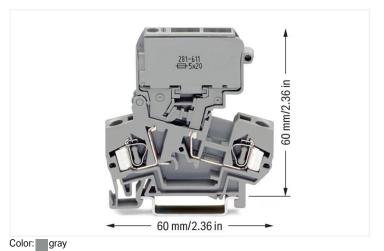
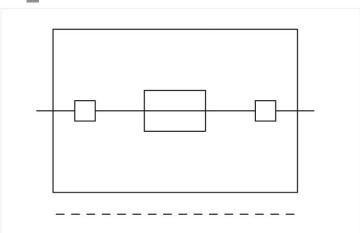
2-conductor fuse terminal block; with pivoting fuse holder; for  $5 \times 20 \text{ mm}$  miniature metric fuse; without blown fuse indication; for DIN-rail  $35 \times 15 \text{ and } 35 \times 7.5$ ;  $4 \text{ mm}^2$ ; CAGE CLAMP®;  $4,00 \text{ mm}^2$ ; gray

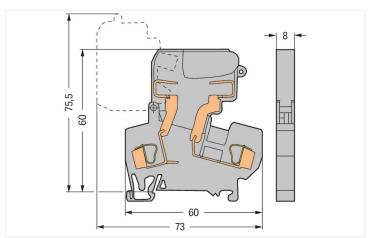


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Dimensions in mm

Power loss

Fused disconnect terminal block with a pivoting fuse holder, for (5 x 20) mm glass cartridge fuse, without blown fuse indication (281-611)

Electrical data	
Ratings per IEC/EN	
Ratings per	IEC/EN 60947-7-3
Ratings (note)	Electrical ratings are given by the fuse.
Nominal voltage (III/3)	800 V
Rated impulse voltage (III/3)	8 kV
Rated current	10 A
Operation status indicator	None
Legend (ratings)	(III / 3) ≙ Overvoltage category III / Pollution degree 3

Power loss (max.) P <sub>I (max.)</sub> (note)	When selecting glass cartridge fuses, make sure that the maximum power loss listed below is not exceeded. The power loss is determined according to IEC or EN 60947-7-3/VDE 0611-6 at 23°C. The temperature rise of the terminal block must be checked according to their application and mounting. Higher ambient temperatures represent an additional impact on miniature fuses. Therefore, in such applications, the rated current must be reduced if necessary. More details are available from the manufacturers.
Power loss P <sub>1</sub> max. overload and short-circuit protection (individual arrangement)	2.5 W
Power loss P <sub>I</sub> max. overload and short-circuit protection (group arrangement)	1.6 W
Power loss P <sub>I</sub> max. short-circuit protection (individual arrangement)	4 W
Power loss P <sub>I</sub> max. short-circuit protection (group arrangement)	4 W

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Fuse receptacle pivoting

Fuse type Cylindrical fuse; 5 x 20 mm



4 mm<sup>2</sup> = 22 A

Front-entry wiring

 $0.08 \dots 4 \text{ mm}^2 / 28 \dots 12 \text{ AWG}$ 

0.08 ... 4 mm<sup>2</sup> / 28 ... 12 AWG

9 ... 10 mm / 0.35 ... 0.39 inches

Connection data			
Connection points	2	Connection 1	
Total number of potentials	2	Connection technology	CAGE CLAMP®
lumber of levels	1	Actuation type	Operating tool
	C	Connectable conductor materials	Copper Aluminum
		Connectable conductor materials (note)	Terminating Aluminum Conductors WAGO spring clamp terminal blocks an suitable for solid aluminum conductors up to 4 mm²/12 AWG if WAGO "Alu-Plus Contact Paste <a href="https://www.wago.com/249-130">https://www.wago.com/249-130"&gt;249-130</a> is use for termination.
			"Alu-Plus" Contact Paste Advantages:
			<ul> <li>Automatically destroys the oxide film during clamping.</li> <li>Prevents fresh oxidation at the clamping point.</li> <li>Prevents electrolytic corrosion between aluminum and copper conductor (in the same terminal block).</li> <li>Provides long-term protection again corrosion.</li> </ul>
	Using terminal blocks with CAGE CLAMP® Spring Pressure Connection Technology, aluminum conductors mifirst be cleaned with a blade and their immediately be inserted into the clamping units filled with "Alu-Plus" Contac Paste.		
			It is also possible to apply WAGO "Alu- Plus" <b>additionally</b> on the whole surfact of the aluminum conductor before term nation.
			Please note that the nominal currents must be adapted to the reduced conditivity of the aluminum conductors::  2.5 mm² = 16 A

Physical data	
Width	8 mm / 0.315 inches
Height	60 mm / 2.362 inches
Depth from upper-edge of DIN-rail	60 mm / 2.362 inches

Solid conductor

Wiring direction

Strip length

Fine-stranded conductor

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

Material data	
Note (material data)	
	<u>Information on material specifications can be found here</u>
Color	gray
Material group	
Insulation material	Polyamide (PA66)
Flammability class per UL94	VO
Fire load	0.318 MJ
Weight	17 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	27-14-11-16
eCl@ss 9.0	27-14-11-16
ETIM 8.0	EC000899
ETIM 7.0	EC000899
PU (SPU)	50 pcs
Packaging type	Box
Country of origin	IN
GTIN	4045454614591
Customs tariff number	85369095000

# Approvals / Certificates

## General approvals









Approval	Standard	Certificate Name
CSA DEKRA Certification B.V.	C22.2 No. 158	1505034
KEMA/KEUR DEKRA Certification B.V.	EN 60947	NTR NL-7135
KEMA/KEUR DEKRA Certification B.V.	EN 60947	2160584.31
UR UL International Germany GmbH	UL 1059	E45172

## Declarations of conformity and manufacturer's declarations

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

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## Approvals for marine applications



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Approval Standard Certificate Name

ABS - 20-HG1941090-PDA

American Bureau of Ship-

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product
Compliance 281-611

 Documentation

 Additional Information
 Bid Text

 Technical Section
 pdf 2142.18 KB
 281-611
 xml 3.44 KB
 ⊥

 281-611
 09.03.2017
 doc 25.00 KB
 ↓

1 Compatible Products

1.1 Optional Accessories

1.1.1 DIN-rail

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#### 1.1.1.1 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 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

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.: 210-118

Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to FN 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



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

#### 1.1.2 Ferrule

#### 1.1.2.1 Ferrule



# Item No.: 216-301

Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow

# Item No.: 216-302

Ferrule; Sleeve for 0.34 mm<sup>2</sup> / 22 AWG; insulated; electro-tin plated; light turquoise

## Item No.: 216-241

Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white

#### Item No.: 216-201

Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; insulated; electro-tin plated; white



## Item No.: 216-242

Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray

## Item No.: 216-202

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray

## Item No.: 216-243

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

# Item No.: 216-203

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; red



#### Item No.: 216-204

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; black

# Item No.: 216-244

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228. Part 4/09.90; black

#### Item No.: 216-205

Ferrule; Sleeve for 2.08 mm<sup>2</sup> / AWG 14; insulated; electro-tin plated; yellow

#### Item No.: 216-206

Ferrule; Sleeve for 2.5 mm<sup>2</sup> / AWG 14; insulated; electro-tin plated; blue



## Item No.: 216-246

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.: 216-106

Ferrule; Sleeve for 2.5 mm² / AWG 14; uninsulated; electro-tin plated; silver-colored

## 1.1.3 Installation

## 1.1.3.1 Cover



#### Item No.: 709-153

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

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#### 1.1.3.2 Cover carrier



## Item No.: 709-167

Cover carrier; Type 1; incl. fixing/retaining screws and knurled nut; suitable for 279 to 282 and 880 Series rail-mounted terminal blocks; suitable for 264 Series miniature rail-mounted terminal blocks; suitable for 270 Series sensor and actuator terminal blocks; gray

#### 1.1.3.3 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

#### 1.1.4 Jumper

## 1.1.4.1 Jumper









Item No.: 281-402

Jumper; insulated; gray



Wire commoning chain; 2.5 mm<sup>2</sup>; insulated; black

Item No.: 709-111

Wire commoning chain; 2.5 mm²; insulated: black

Item No.: 709-112

Wire commoning chain; 2.5 mm<sup>2</sup>; insulated; black





Wire commoning chain; insulated; black

Item No.: 210-123

Wire commoning chain; insulated; blue

## 1.1.5 Locking system

## 1.1.5.1 Locking system



#### Item No.: 210-254

Interlocking link; mechanically locks multiple links; 1 m long; transparent

## 1.1.6 Marking

#### 1.1.6.1 Marker





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.: 793-5501/000-007

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.: 793-5501/000-023

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.: 793-5501/000-017

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



## 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; white

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#### 1.1.6.1 Marker









## 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



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

## Item No.: 793-501/000-007

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

## Item No.: 793-501/000-023

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



#### Item No.: 793-501/000-017

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



WMB marking card; as card; not stretcha-

WMB marking card; as card; not stretcha-

## Item No.: 793-501/000-005

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



# Item No.: 793-501/000-024

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



Item No.: 793-501 WMB marking card; as card; not stretchable; plain; snap-on type; white



ble; plain; snap-on type; yellow

Item No.: 793-501/000-012

ble; plain; snap-on type; orange

## Item No.: 2009-115/000-006

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

## 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.: 2009-115/000-023

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

## 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.: 2009-115/000-012

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



#### 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.: 2009-115/000-002 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

## 1.1.7 Push-in type wire jumper

#### 1.1.7.1 Jumper



lated; 110 mm long; black

Push-in type wire jumper; 0.75 mm<sup>2</sup>; insu-



# Item No.: 249-123

Push-in type wire jumper; 0.75 mm<sup>2</sup>; insulated; 180 mm long; black



## Item No.: 249-127

Push-in type wire jumper; 0.75 mm<sup>2</sup>; insulated; 250 mm long; black



#### Item No.: 249-125

Push-in type wire jumper; insulated; 60 mm long; black

## 1.1.8 Test and measurement

#### 1.1.8.1 Testing accessories



Item No.: 280-404 Test plug adapter; 5 mm wide; for test plug (2.3 mm Ø); suitable for 1.5 mm<sup>2</sup> - 4 mm² tbs; gray

## Item No.: 281-407

Test plug; 6 mm wide; Nominal current 24 A; for 0.08 mm<sup>2</sup> - 2.5 mm<sup>2</sup>; 2,50 mm<sup>2</sup>; gray

## 1.1.9 Tool



## 1.1.9.1 Operating tool



Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; angled; short; multicoloured

## Item No.: 210-720

Operating tool; Blade:  $3.5 \times 0.5$  mm; with a partially insulated shaft; multicoloured

## Item No.: 210-657

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; short; multicoloured

## **Installation Notes**

## Conductor termination



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

## Commoning



Commoning Distributing current to several fuse-protected circuits via insulated push-in type jumpers.

## Testing



Voltage test, either at input or output with fuse holder in closed position (live)



Through test with fuse holder in open position (no voltage)



Voltage test at input in the test slot of the current bar



Testing voltage at the output via separate



Measuring current between jumper slot and separate test slot.



Testing voltage (input side) via test plug adapter (280-404, shown) or test plug (281-407).





 $5\,x\,20$  mm,  $5\,x\,25$  mm and  $1\!/4"\,x\,1"$  fuse holders are fitted with stops on the inside of the cover.

## Security



Touch-proof protection in all positions of the fuse holder



Fuse holder will remain safely locked open in vertical assemblies.

## Locking system



Ganging several fuse holders with an interlocking link (example shows 8 mm wide terminal blocks).



Fuse replacement: Before replacing a fuse, pivot the fuse holder into the locked open position.



Fuse replacement: One end of the fuse is automatically ejected from the holder when opening the cover.



Fuse replacement: Easily removing a fuse by hand.



Fuse replacement: Insert a new fuse and snap the cover closed.



Storing a spare fuse (fuse holder without blown fuse indication).

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Fused disconnect or disconnect terminal blocks with a width of 8 mm can be assembled adjacently. At the end of an assembly, or if there is no adjacent fused disconnect or disconnect terminal block, an end or intermediate plate must be used.

## Marking







Each fuse holder features two marker slots for custom WMB Multi markers (example shows 8 mm wide terminal blocks).

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$