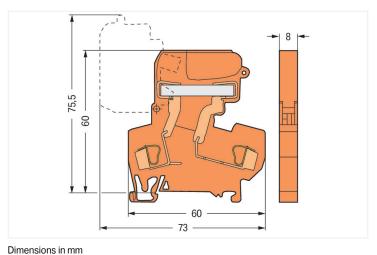
2-conductor disconnect terminal block; for DIN-rail 35 x 15 and 35 x 7.5; 4 mm²; CAGE CLAMP[®]; 4,00 mm²; orange



https://www.wago.com/281-672





Color: ■ orange Similar to illustration

Disconnect terminal block, 281 Series, operating tool

or. orange Similar to inustration Dimensions in

Our disconnect terminal block (item number 281-672) makes connections quick and easy. Strip lengths must be between 9 mm and 10 mm when connecting conductors to this disconnect terminal block. This product features conductor terminals and utilizes CAGE CLAMP®. Our CAGE CLAMP® connection offers a safe and maintenance-free way to connect all types of conductors. You do not need to prepare the conductor in any way, such as crimping ferrules. This disconnect terminal block is suitable for conductor cross sections ranging from 0.08 mm² to 4 mm². It has one level. You can connect two potentials using the two clamping points. The orange housing is made of polyamide (PA66) for insulation. These function terminal blocks are mounted using DIN-35 rails..

Electrical data Ratings per IEC/EN **Power Loss** Nominal voltage (III/3) 800 V Power loss, per pole (potential) 0.256 W 8 kV Rated current I_N for specified power loss Rated impulse withstand voltage (III / 3) Resistance value for specified, current-Rated current 0.001Ω dependent power loss (III / 3) ≙ Overvoltage category III / Polluti-Legend (ratings) on degree 3

Connection data				
lamping units	2	Conne	ection 1	
Total number of potentials	2	Connec	ction technology	CAGE CLAMP®
lumber of levels	1	Actuation	on type	Operating tool
		Connec	ctable conductor materials	Copper Aluminum

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W/AGO

Connection 1

Connectable conductor materials (note)

Terminating Aluminum ConductorsWAGO Spring-Clamp Terminal Blocks are suitable for solid aluminum conductors up to 4 mm²/12 AWG if WAGO "Alu-Plus" Contact Paste 249-130 is used for ter-

"Alu-Plus" Contact Paste Advantages:

- Automatically destroys the oxide film during clamping.
- Prevents fresh oxidation at the clamping point.
- Prevents electrolytic corrosion between aluminum and copper conductors (in the same terminal block).
- Provides long-term protection against corrosion.

Using terminal blocks with CAGE CLAMP® Spring Pressure Connection Technology, aluminum conductors must first be cleaned with a blade and then immediately inserted into the clamping units filled with "Alu-Plus" contact paste.

It is also possible to apply WAGO "Alu-Plus" **additionally** on the whole surface of the aluminum conductor before termination.

Please note that the nominal currents must be adapted to the reduced conductivity of the aluminum conductors:: 2.5 mm² = 16 A 4 mm² = 22 A

 Solid conductor
 0.08 ... 4 mm² / 28 ... 12 AWG

 Fine-stranded conductor
 0.08 ... 4 mm² / 28 ... 12 AWG

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

Wiring direction Front-entry wiring

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

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

Material data	
Note (material data)	Information on material specifications can be found here
Color	orange
Material group	I .
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	VO
Fire load	0.328 MJ
Weight	18.5 g

https://www.wago.com/281-672



Environmental requirements

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

Commercial data	
Product Group	1 (Rail Mounted Terminal Blocks)
PU (SPU)	50 pcs
Packaging type	Вох
Country of origin	CN
GTIN	4045454871611
Customs tariff number	85365080000

Product classification	
UNSPSC	39121402
eCl@ss 10.0	27-14-11-26
eCl@ss 9.0	27-14-11-26
ETIM 9.0	EC000902
ETIM 8.0	EC000902
ECCN	NO US CLASSIFICATION

Environmental Product Compliance

RoHS Compliance Status Compliant,No Exemption

Approvals / Certificates

General approvals





Approval	Standard	Certificate Name
CSA CSA Group	C22.2	1505034
UR UL International Germany GmbH	UL 1059	E45172

Approvals for marine applications



manischer Lloyd





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-	-	TAE00001V2

Downloads

Environmental Product Compliance

Compliance Search

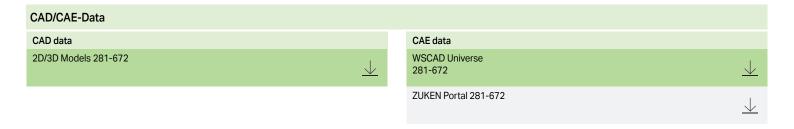
Environmental Product Compliance 281-672



https://www.wago.com/281-672



Documentation Bid Text 281-672 xml 3.12 KB ✓ 281-672 doc 24.50 KB ✓



1 Compatible Products

1.1 Required Accessories

1.1.1 End plate

1.1.1.1 End plate





Item No.: 281-311

End and intermediate plate; 2.5 mm thick; gray

Item No.: 281-309

End and intermediate plate; 2.5 mm thick; orange

1.2 Optional Accessories

1.2.1 DIN-rail

1.2.1.1 Mounting accessories



Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm

thick; 2 m long; unslotted; similar to EN





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



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.: 210-114

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 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



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

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

https://www.wago.com/281-672



1.2.2 Ferrule

1.2.2.1 Ferrule

Item No.: 216-241

Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white



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.: 216-243

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

Item No.: 216-244

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black



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

1.2.3 Installation

1.2.3.1 Cover



Item No.: 709-153

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

1.2.3.2 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

1.2.3.3 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

1.2.4 Jumper

1.2.4.1 Jumper



Item No.: 281-490

Jumper; 10-way; insulated; gray



Jumper; 2-way; insulated; gray



Item No.: 281-492 Jumper; 2-way; insulated; gray



Jumper; 3-way; insulated; gray



Item No.: 281-485

Jumper; 5-way; insulated; gray

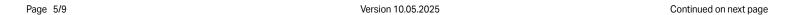




Item No.: 709-111 Wire commoning chain; 2.5 mm²; insula-



Item No.: 709-110 Jumper; insulated; gray Wire commoning chain; 2.5 mm²; insulated; black



https://www.wago.com/281-672



1.2.4.1 Jumper



Item No.: 709-112

Wire commoning chain; 2.5 mm²; insulated; black

Item No.: 210-103

Wire commoning chain; insulated; black

Item No.: 210-123

Wire commoning chain; insulated; blue

1.2.5 Locking system

1.2.5.1 Locking system



Item No.: 210-254

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

1.2.6 Marking

1.2.6.1 Marker





WMB marking card; as card; for terminal

block width 5 - 17.5 mm; stretchable 5 -

5.2 mm; plain; snap-on type; gray

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



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.: 793-5501/000-005

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; red



Item No.: 793-501/000-006 WMB marking card; as card; not stretchable; plain; snap-on type; blue



Item No.: 793-501/000-007

Item No.: 793-5501/000-023

Item No.: 793-5501/000-024

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 -

5.2 mm; plain; snap-on type; violet

5.2 mm; plain; snap-on type; green

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



Item No.: 793-501/000-023

Item No.: 793-5501

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



Item No.: 793-501/000-017

Item No.: 793-5501/000-002

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



Item No.: 793-501/000-012

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



Item No.: 793-501/000-005

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



Item No.: 793-501/000-024

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

WMB marking card; as card; for terminal

block width 5 - 17.5 mm; stretchable 5 -

5.2 mm; plain; snap-on type; white

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



Item No.: 793-501/000-002

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



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

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https://www.wago.com/281-672



1.2.7 Push-in type wire jumper

1.2.7.1 Jumper

Item No.: 249-126

Push-in type wire jumper; 0.75 mm²; insulated; 110 mm long; black

Item No.: 249-123

Push-in type wire jumper; 0.75 mm²; insulated; 180 mm long; black

Item No.: 249-127

Push-in type wire jumper; 0.75 mm²; insulated; 250 mm long; black

Item No.: 249-125

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

1.2.8 Test and measurement

1.2.8.1 Testing accessories

Item No.: 249-147

B-type test plug module; modular; 2,50 mm²; gray

Item No.: 280-404

Test plug adapter; 5 mm wide; for test plug (2.3 mm \emptyset); suitable for 1.5 mm² - 4 mm² tbs; gray

Item No.: 281-407

Test plug; 6 mm wide; Nominal current 24 A; for 0.08 mm² - 2.5 mm²; gray

1.2.9 Tool

1.2.9.1 Operating tool



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

Item No.: 210-720

Operating tool; Blade: 3.5 x 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; multicolou-

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-section.

Commoning



Commoning

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

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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 test slot.



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).

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).



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.

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Marking







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

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