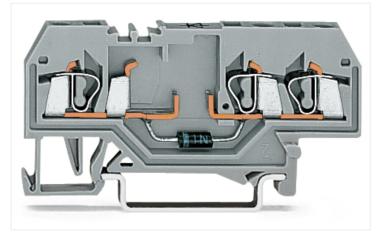
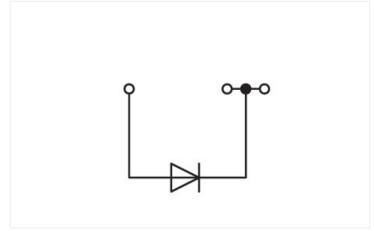
Component terminal block; 3-conductor; with diode 1N4007; anode, left side; for

DIN-rail 35 x 15 and 35 x 7.5; 2.5 mm²; CAGE CLAMP[®]; 2,50 mm²; gray

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Color: ■ gray

Component terminal block with diode, 280 Series, CAGE CLAMP®

Seamless electrical installations are guaranteed with component terminal block with diode (item number 280-673/281-410). Conductors can only be connected to component terminal block with diode if their strip length is between 8 mm and 9 mm. This product features conductor terminals and utilizes CAGE CLAMP®. Our highly-rated and maintenance-free CAGE CLAMP® connection makes it easy to connect all conductor types without having to prepare the conductor. For example, you don't need to crimp ferrules. Depending on the conductor type, component terminal block with diode is designed for conductor cross sections ranging from 0.08 mm² to 2.5 mm². He has one level. The single potential can connect using the three clamping points The gray housing is made of polyamide (PA66) for insulation. These function terminal blocks are mounted using DIN-35 rails...

Electrical data					
Ratings per	IEC	/EN 60947-	7-1	General information	
Overvoltage category	III	III	II	Nominal voltage	250 V
Pollution degree	3	2	2	Reverse voltage	1000 V
Nominal voltage	-	-	-		
Rated surge voltage	-	-	-		
Rated current	-	-	-		

Connection data			
Clamping units	3	Connection 1	
Total number of potentials	1	Connection technology	CAGE CLAMP®
Number of levels	1	Actuation type	Operating tool
		Connectable conductor materials	Copper Aluminum

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WAGO

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 ... 2.5 mm² / 28 ... 14 AWG

 Fine-stranded conductor
 0.08 ... 2.5 mm² / 28 ... 14 AWG

 Strip length
 8 ... 9 mm / 0.31 ... 0.35 inches

Wiring direction Front-entry wiring

Physical data	
Width	5 mm / 0.197 inches
Height	64 mm / 2.52 inches
Depth from upper-edge of DIN-rail	28 mm / 1.102 inches

Mechanical data	
Design	horizontal type
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	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.137 MJ
Weight	8 g

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Environmental requirements

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

Commercial data	
Product Group	1 (Rail Mounted Terminal Blocks)
eCl@ss 10.0	27-14-11-27
eCl@ss 9.0	27-14-11-27
ETIM 9.0	EC000903
ETIM 8.0	EC000903
PU (SPU)	100 pcs
Packaging type	Вох
Country of origin	CN
GTIN	4050821275459
Customs tariff number	85369010000

Environmental Product Compliance	
CAS-No.	7439-92-1 79-94-7
REACH Candidate List Substance	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol Lead
RoHS Compliance Status	Compliant, With Exemption
RoHS Exemption	7(a) 7(c)-l 7(c)-ll
SCIP notification number (Austria)	7924119f-5805-4277-8edd-a420765a34ac
SCIP notification number (Belgium)	fbacfe6a-18d6-415f-a9c7-b719b5a7fa3c
SCIP notification number (Bulgaria)	acbf6bdf-7b25-4424-9986-f2c60c6d65f7
SCIP notification number (Czech Republic)	3df6216e-5da1-4069-ae61-02731ae70717
SCIP notification number (Denmark)	2c48daf7-d566-40d3-be4e-aad84c2a8206
SCIP notification number (Finland)	c0df019f-94c0-4239-a175-829a12b7b95a
SCIP notification number (France)	a2affe31-b47c-4a0a-b424-78425d3e6d26
SCIP notification number (Germany)	9df19bb9-c8a1-4946-bec2-e9621c178bdd
SCIP notification number (Hungary)	cbec5cee-769e-401e-b1c4-a61ec7f853f4
SCIP notification number (Italy)	7ca35832-3cf4-42c5-9428-152a01c9da89
SCIP notification number (Netherlands)	c16f294e-f284-4466-884f-1afdac25740e
SCIP notification number (Poland)	6625224b-8dec-4e29-9577-f168bf996fbc
SCIP notification number (Romania)	a629d212-b38c-429a-8c2f-ea4154a09ddb
SCIP notification number (Sweden)	477cba4d-9408-44b6-8171-183a0e2c9e3e

Approvals / Certificates

General approvals

KEMA

Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	2157201.01

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





Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	EN 60947	20-HG1941090-PDA
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00001V2

Downloads Environmental Product Compliance Compliance Search Environmental Product Compliance 280-673/281-410



CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 280-673/281-410	EPLAN Data Portal 280-673/281-410
	WSCAD Universe 280-673/281-410
	ZUKEN Portal 280-673/281-410

https://www.wago.com/280-673/281-410



1 Compatible Products

1.1 Required Accessories

1.1.1 End plate

1.1.1.1 End plate

Item No.: 280-324

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End and intermediate plate; 2.5 mm thick;

Item No.: 280-326

End and intermediate plate; 2.5 mm thick; orange



Separator plate; 2 mm thick; oversized; gray

Item No.: 280-346

Separator plate; 2 mm thick; oversized; 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 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 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

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

1.2.2 Ferrule

1.2.2.1 Ferrule

Item No.: 216-301
Ferrule: Sleeve for 0.25 mm²

Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow

Item No.: 216-302

Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise

Item No.: 216-201

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

Item No.: 216-101

Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; silver-colored



Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray

Item No.: 216-102

Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated; silver-colored

Item No.: 216-203

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red

Item No.: 216-103

Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated



Item No.: 216-204

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black

Item No.: 216-104

Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; silver-colored

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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 Insulation stop

1.2.4.1 Insulation stop







Item No.: 280-470

Insulation stop; 0.08 - 0.2 mm² "s" (0.14 mm2 "f-st"); 5 pieces/strip; white

Item No.: 280-471

Insulation stop; 0.25 - 0.5 mm²; 5 pieces/ strip; light gray

Item No.: 280-472

Item No.: 280-492

Insulation stop; 0.75 - 1 mm²; 5 pieces/ strip; black

1.2.5 Jumper

1.2.5.1 Jumper

Item No.: 280-490





Item No.: 280-482

Jumper; 2-way; insulated; gray

Jumper; 5-way; insulated; gray



Item No.: 280-483 Jumper; 3-way; insulated; gray

Jumper; 10-way; insulated; gray



Item No.: 280-485 Item No.: 709-110

Wire commoning chain; 2.5 mm²; insula-



Item No.: 280-484

Jumper; 4-way; insulated; gray



ted; black

Jumper; 2-way; insulated; gray

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



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

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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



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; white



4

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

1.2.7 Protective warning marker

1.2.7.1 Cover



Item No.: 280-415

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

1.2.8 Test and measurement

1.2.8.1 Testing accessories



Item No.: 249-142

L-type end module; modular; with rigid contact pin; End module; 1,50 mm²; gray



L-type spacer module; modular; e.g., bridging commoned terminal blocks; gray



L-type test plug module; modular; with spring-loaded contact pin; Center module; 1,50 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: 3.5×0.5 mm; with a partially insulated shaft; short; multicoloured

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Installation Notes

Commoning



Commoning using comb-style jumper bars:

Push comb-style jumper bars down until fully inserted.



These diode terminal blocks have been specially developed for custom diode circuits, such as lamp test and collective fault signal circuits.



Polarized diode gates with a common cathode can be created using the following terminal blocks:

280-673/281-410 or 280-673/281-411

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