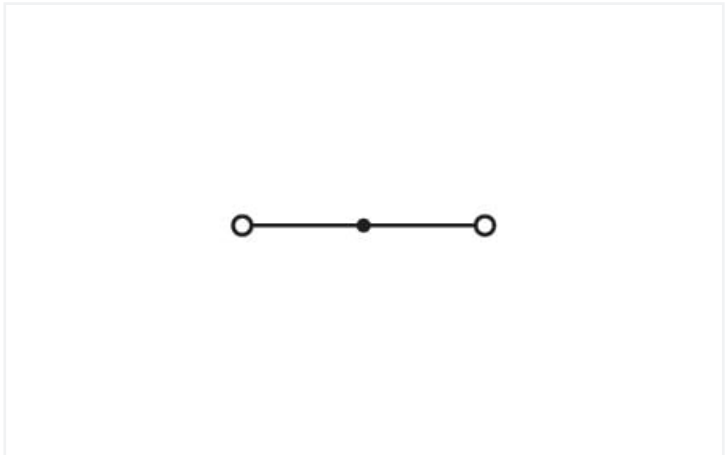




Color: ■ blue

Similar to illustration



Similar to illustration

Through terminal block, 284 Series, CAGE CLAMP®

Connect conductors quickly and securely with this through terminal block (item number 284-104). 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. Rated current and voltage are key factors to consider when selecting a through rail-mount terminal block, as they indicate possible applications and uses. This product has a rated voltage of 800 V and a rated current of 57 A. Strip lengths must be between 12 mm and 13 mm when connecting conductors to this through terminal block. This product incorporates conductor terminals and utilizes CAGE CLAMP®. Our highly-rated and maintenance-free CAGE CLAMP® connection makes it easy to connect all types of conductors without having to prepare the conductor. For example, you don't need to crimp ferrules. This through terminal block is suitable for conductor cross sections ranging from 0.2 mm² to 10 mm². It has one level. You can connect a single potential using the two clamping points. The blue housing is made of polyamide (PA66) for insulation. This through rail-mount terminal block is operated with an operating tool. These through rail-mount terminal blocks are mounted using DIN-35 rails.. You can connect copper conductors thanks to side-entry wiring.

Electrical data

Ratings per	IEC/EN 60947-7-1			Power Loss	
Overvoltage category	III	III	II	Power loss, per pole (potential)	1.8194 W
Pollution degree	3	2	2	Rated current I _N for specified power loss	57 A
Nominal voltage	800 V	-	-	Resistance value for specified, current-dependent power loss	0.00056 Ω
Rated surge voltage	8 kV	-	-		
Rated current	57 A	-	-		

Connection data

Clamping units	2	Connection 1	
Total number of potentials	1	Connection technology	CAGE CLAMP®
Number of levels	1	Actuation type	Operating tool
		Connectable conductor materials	Copper
		Solid conductor	0.2 ... 10 mm ² / 24 ... 8 AWG
		Fine-stranded conductor	0.2 ... 10 mm ² / 24 ... 8 AWG
		Strip length	12 ... 13 mm / 0.47 ... 0.51 inches
		Wiring direction	Side-entry wiring



Physical data	
Width	10 mm / 0.394 inches
Height	52 mm / 2.047 inches
Depth from upper-edge of DIN-rail	41.5 mm / 1.634 inches

Mechanical data	
Design	horizontal type
Mounting type	DIN-35 rail
Marking level	Side marking

Material data	
Note (material data)	Information on material specifications can be found here
Color	blue
Material group	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.291 MJ
Weight	18.2 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)	50 pcs
Packaging type	Box
Country of origin	DE
GTIN	4044918323413
Customs tariff number	85369010000

Environmental Product Compliance	
RoHS Compliance Status	Compliant, No Exemption

Approvals / Certificates		
General approvals		General approvals
		UL Underwriters Laboratories Inc.
		UL 1059
		E45172
Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR NL-7379
CSA CSA Group	C22.2	1536073
KEMA/KEUR DEKRA Certification B.V.	EN 60947	2178517.01



Declarations of conformity and manufacturer's declarations

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

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 284-104

Documentation

Additional Information
Technical Section
pdf 2246.92 KB

Bid Text			
284-104	19.02.2019	xml 3.23 KB	
284-104	12.06.2017	doc 24.00 KB	

CAD/CAE-Data

CAD data
2D/3D Models 284-104

CAE data
EPLAN Data Portal 284-104
WSCAD Universe 284-104
ZUKEN Portal 284-104

1 Compatible Products

1.1 Required Accessories

1.1.1 End plate

1.1.1.1 End plate



Item No.: 284-301
End and intermediate plate; 2.5 mm thick;
gray



Item No.: 284-302
End and intermediate plate; 2.5 mm thick;
orange



Item No.: 284-332
Separator plate; 2 mm thick; oversized;
gray



Item No.: 284-322
Separator plate; 2 mm thick; oversized;
orange



Item No.: 284-333
Step-down cover plate; 1 mm thick; gray



Item No.: 284-343
Step-down cover plate; 1 mm thick; oran-
ge



1.2 Optional Accessories

1.2.1 DIN-rail

1.2.1.1 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 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.: 216-262
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.: 216-263
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.: 216-264
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.: 216-266
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.: 216-267
Ferrule; Sleeve for 4 mm² / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray



Item No.: 216-208
Ferrule; Sleeve for 6 mm² / AWG 10; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; yellow



Item No.: 216-108
Ferrule; Sleeve for 6 mm² / AWG 10; uninsulated; electro-tin plated; silver-colored

1.2.3 Installation

1.2.3.1 Cover



Item No.: 709-154
Cover; Type 2; suitable for cover carrier, type 2; 1 m long; transparent



1.2.3.2 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

1.2.3.3 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 DIN-rail 35 x 15 and 35 x 7.5; gray

1.2.4 Jumper

1.2.4.1 Jumper



Item No.: 284-402
Jumper; insulated; gray



Item No.: 284-409
Jumper; insulated; gray



Item No.: 284-422
Jumper; insulated; yellow-green



Item No.: 284-414
Step-down jumper; from 284/282 to 281/280/279 series; insulated; gray



Item No.: 284-413
Step-down jumper; from 284/282 to 282/281 series; insulated; gray

1.2.5 Marking

1.2.5.1 Group marker carrier



Item No.: 249-105
Group marker carrier; gray

1.2.5.2 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.: 793-5501/000-007
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.: 793-5501/000-023
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.: 793-5501/000-017
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.: 793-5501/000-012
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.: 793-5501/000-005
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.: 793-5501/000-024
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
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white

1.2.5.2 Marker

 <div><div>Item No.: 793-5501/000-002</div><div>WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; yellow</div></div>	 <div><div>Item No.: 793-501/000-006</div><div>WMB marking card; as card; not stretchable; plain; snap-on type; blue</div></div>	 <div><div>Item No.: 793-501/000-007</div><div>WMB marking card; as card; not stretchable; plain; snap-on type; gray</div></div>	 <div><div>Item No.: 793-501/000-023</div><div>WMB marking card; as card; not stretchable; plain; snap-on type; green</div></div>
 <div><div>Item No.: 793-501/000-017</div><div>WMB marking card; as card; not stretchable; plain; snap-on type; light green</div></div>	 <div><div>Item No.: 793-501/000-012</div><div>WMB marking card; as card; not stretchable; plain; snap-on type; orange</div></div>	 <div><div>Item No.: 793-501/000-005</div><div>WMB marking card; as card; not stretchable; plain; snap-on type; red</div></div>	 <div><div>Item No.: 793-501/000-024</div><div>WMB marking card; as card; not stretchable; plain; snap-on type; violet</div></div>
 <div><div>Item No.: 793-501</div><div>WMB marking card; as card; not stretchable; plain; snap-on type; white</div></div>	 <div><div>Item No.: 793-501/000-002</div><div>WMB marking card; as card; not stretchable; plain; snap-on type; yellow</div></div>	 <div><div>Item No.: 2009-115/000-006</div><div>WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue</div></div>	 <div><div>Item No.: 2009-115/000-007</div><div>WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray</div></div>
 <div><div>Item No.: 2009-115/000-023</div><div>WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green</div></div>	 <div><div>Item No.: 2009-115/000-017</div><div>WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; light green</div></div>	 <div><div>Item No.: 2009-115/000-012</div><div>WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange</div></div>	 <div><div>Item No.: 2009-115/000-024</div><div>WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet</div></div>
 <div><div>Item No.: 2009-115</div><div>WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white</div></div>	 <div><div>Item No.: 2009-115/000-002</div><div>WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow</div></div>		

1.2.6 Protective warning marker

1.2.6.1 Cover

 <div><div>Item No.: 284-405</div><div>Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow</div></div>

1.2.7 Test and measurement

1.2.7.1 Testing accessories

 <div><div>Item No.: 709-311</div><div>B-type spacer module; modular; e.g., for bridging commoned terminal blocks; gray</div></div>	 <div><div>Item No.: 709-310</div><div>B-type test plug module; modular; suitable for all WAGO 282 Series rail-mounted terminal blocks with jumper slots; 6,00 mm²; gray</div></div>	 <div><div>Item No.: 209-170</div><div>Test plug adapter; 8.3 mm wide; for 4 mm Ø test plugs; suitable for 1.5 mm² - 10 mm² tbs; gray</div></div>
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1.2.8 Tool

1.2.8.1 Operating tool

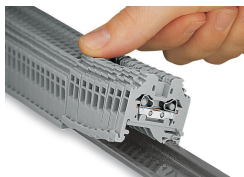


Item No.: 210-721

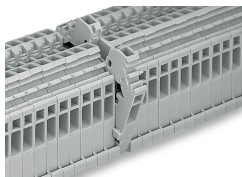
Operating tool; Blade: 5.5 x 0.8 mm; with a partially insulated shaft; multicoloured

Installation Notes

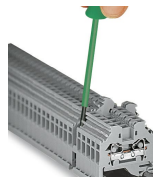
Installation



Snapping side-entry rail-mount terminal blocks onto the DIN-rail.

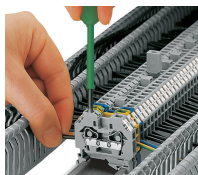


Quick assembly keys prevent reverse mounting.



Removing a terminal block from the assembly.

Conductor termination



CAGE CLAMP® connection

Inserting a conductor.

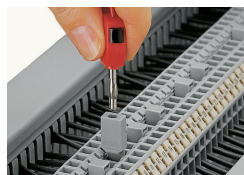
With ferruled conductors, it is necessary to use a terminal block one size larger than the conductor's nominal cross-section.

Commoning

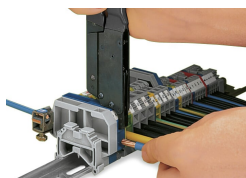


Commoning using an adjacent jumper (280-402). Push jumper down until fully inserted.

Testing



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



When operating the handles beyond the locked position, the ratchet allows the tool to open and be removed from the terminal block.

Marking



Labeling via WMB Multi Marking System.