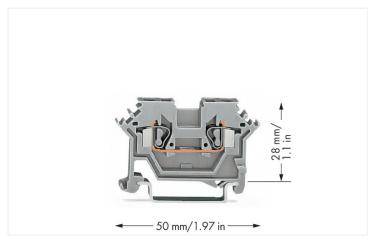
2-conductor through terminal block; 2.5 mm²; lateral marker slots; for DIN-rail 35 x 15 and 35 x 7.5; CAGE CLAMP[®]; 2,50 mm²; gray



https://www.wago.com/280-601





Color: ■ gray



Similar to illustration

Through terminal block, 280 Series, gray

This through terminal block (item number 280-601) is designed for easy and secure connections. Whether for use in industry or building installations, our rail-mount through terminal blocks allow you to quickly and securely connect electrical conductors. They're perfect for either classic through-wiring or distributing potential, depending on the variant. This through rail-mount terminal block has a rated voltage of 800 V and can handle currents up to 24 A. Strip lengths must be between 8 mm and 9 mm when connecting conductors to this through terminal block. This product features conductor terminals and utilizes CAGE CLAMP®. Our reliable 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. This through terminal block is suitable for conductor cross sections ranging from 0.08 mm² to 2.5 mm². It has one level. The single potential can connect using the two clamping points The gray 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.. The front-entry wiring means you can connect copper, aluminum 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	24 A	-	-

Approvals per		UL 1059	
Use group	В	С	D
Rated voltage	-	600 V	-
Rated current	-	20 A	-

Data Sheet | Item Number: 280-601 https://www.wago.com/280-601



Approvals per	CSA 22.2 No 158		
Use group	В	С	D
Rated voltage	-	600 V	-
Rated current	-	24 A	-

Power Loss	
Power loss, per pole (potential)	0.7661 W
Rated current I_N for specified power loss	24 A
Resistance value for specified, current- dependent power loss	0.00133 Ω

during clamping. Prevents fresh oxidation at the ping point. Prevents electrolytic corrosis ween aluminum and copper concentration (in the same terminal block). Provides long-term protection corrosion. Using terminal blocks with CAC CLAMP® Spring Pressure Content Cache Clamp Pressure Content Cache Clamp Pressure Content Prevention (in the content Prevention				
Connectable conductor materials Copper Aluminum Connectable conductor materials (note) Terminating Aluminum Condu WAGO Spring-Clamp Terminal suitable for solid aluminum condupt of 4 mm²/12 AWG if WAGO Contact Paste 249-130 is us mination. "Alu-Plus" Contact Paste Adva Automatically destroys the oduring clamping. Prevents electrolytic corrosi ween aluminum and copper co (in the same terminal block). Provides long-term protectic corrosion. Using terminal blocks with CAC CLAMP® Spring Pressure Con Technology, aluminum conduct first be cleaned with a blade immediately inserted into the units filled with "Alu-Plus" cont It is also possible to apply WAC Plus" additionally on the whole of the aluminum conductor be nation. Please note that the nominal c must be adapted to the reduce tivity of the aluminum conduct 2.5 mm² = 16 A 4 mm² = 22 A Solid conductor O.08 2.5 mm² / 28 12 AWG Fine-stranded conductor O.08 2.5 mm² / 28 12 AWG Note (conductor cross-section)				
Actuation type Connectable conductor materials Copper Aluminum Connectable conductor materials (note) Connectable conductor materials (note) Terminating Aluminum Condu WAGO Spring-Clamp Terminal suitable for solid aluminum ou up to 4 mm²/12 AWG if WAGO Contact Paste 249-130 is use mination. "Alu-Plus" Contact Paste Adva • Automatically destroys the ordering clamping. • Prevents fresh oxidation at the ping point. • Prevents electrolytic corrosi ween aluminum and copper core (in the same terminal block). • Provides long-term protectic corrosion. Using terminal blocks with CAC CLAMP® Spring Pressure Com Technology, aluminum conduct first be cleaned with a blade immediately inserted into the ordering in the destroy of the aluminum conduct of the aluminum conductor be nation. Please note that the nominal comust be adapted to the reduce tivity of the aluminum conduct 2.5 mm² = 16 A 4 mm² = 22 A Solid conductor O.08 2.5 mm² / 28 12 AWG Note (conductor cross-section) 12 AWG: THHN, THWN		2	Connection 1	
Connectable conductor materials Copper Aluminum Connectable conductor materials (note) Terminating Aluminum Condu WAGO Spring-Clamp Terminal suitable for solid aluminum coup to 4 mm²/12 AWG if WAGO Contact Paste 249-130 is use mination. "Alu-Plus" Contact Paste Adva • Automatically destroys the ordering clamping. • Prevents fresh oxidation at the ping point. • Prevents electrolytic corrosis ween aluminum and copper core (in the same terminal block). • Provides long-term protectic corrosion. Using terminal blocks with CAC CLAMP® Spring Pressure Contection (and the contection of the contection of the contection of the content of the contection of the aluminum conduct of the aluminum conductor be nation. Please note that the nominal comust be adapted to the reduce tivity of the aluminum conduct 2.5 mm² = 16 A 4 mm² = 22 A Solid conductor O.082.5 mm² / 28 12 AWG Tine-stranded conductor Note (conductor cross-section) 12 AWG: THHN, THWN	1		Connection technology	CAGE CLAMP®
Connectable conductor materials (note) Terminating Aluminum Condu WAGO Spring-Clamp Terminal suitable for solid aluminum con up to 4 mm²/12 AWG if WAGO Contact Paste 249-130 is us mination. "Alu-Plus" Contact Paste Adva • Automatically destroys the oduring clamping. • Prevents fresh oxidation at the ping point. • Prevents electrolytic corrosi ween aluminum and copper co (in the same terminal block). • Provides long-term protectic corrosion. Using terminal blocks with CAC CLAMP® Spring Pressure Contection (in the same terminal block) and the units filled with "Alu-Plus" contection (in the clamber of the aluminum conductor be nation. It is also possible to apply WAC Plus" additionally on the whole of the aluminum conductor be nation. Please note that the nominal comust be adapted to the reduce tivity of the aluminum conductor 2.5 mm² = 16 A 4 mm² = 22 A Solid conductor O.08 2.5 mm² / 28 12 AWC Fine-stranded conductor O.08 2.5 mm² / 28 12 AWC Note (conductor cross-section)	1		Actuation type	Operating tool
WAGO Spring-Clamp Terminal suitable for solid aluminum con up to 4 mm²/12 AWG if WAGO Contact Paste 249-130 is us mination. "Alu-Plus" Contact Paste Adva • Automatically destroys the ordering clamping. • Prevents fresh oxidation at the ping point. • Prevents electrolytic corrosis ween aluminum and copper correction (in the same terminal block). • Provides long-term protectic corrosion. Using terminal blocks with CAC CLAMP* Spring Pressure Contract Delay, aluminum conduct first be cleaned with a blade immediately inserted into the ordering additionally on the whole of the aluminum conduct 2.5 mm² = 16 A 4 mm² = 22 A Solid conductor O.08 2.5 mm² / 28 12 AWC Fine-stranded conductor Note (conductor cross-section) 12 AWG: THHN, THWN			Connectable conductor materials	
Automatically destroys the oduring clamping. Prevents fresh oxidation at the ping point. Prevents electrolytic corrosing ween aluminum and copper of (in the same terminal block). Provides long-term protectic corrosion. Using terminal blocks with CACLAMP® Spring Pressure Contection Technology, aluminum conductifirst be cleaned with a blade immediately inserted into the units filled with "Alu-Plus" content in the intention of the aluminum conductor be nation. Please note that the nominal of the aluminum conductor be nation. Please note that the nominal of the aluminum conductor be nation. Solid conductor O.08 2.5 mm² / 28 12 AWG. Note (conductor cross-section) 12 AWG: THHN, THWN			Connectable conductor materials (note)	WAGO Spring-Clamp Terminal suitable for solid aluminum co up to 4 mm²/12 AWG if WAGO Contact Paste 249-130 is us
during clamping. Prevents fresh oxidation at toping point. Prevents electrolytic corrosis ween aluminum and copper or (in the same terminal block). Provides long-term protectic corrosion. Using terminal blocks with CAC CLAMP® Spring Pressure Con Technology, aluminum conductifirst be cleaned with a blade immediately inserted into the units filled with "Alu-Plus" cont It is also possible to apply WAC Plus" additionally on the whole of the aluminum conductor be nation. Please note that the nominal or must be adapted to the reductivity of the aluminum conduct 2.5 mm² = 16 A 4 mm² = 22 A Solid conductor O.08 2.5 mm² / 28 12 AWC Note (conductor cross-section) 12 AWG: THHN, THWN				"Alu-Plus" Contact Paste Adva
CLAMP® Spring Pressure Control Technology, aluminum conduction first be cleaned with a blade immediately inserted into the cunits filled with "Alu-Plus" control It is also possible to apply WAC Plus" additionally on the whole of the aluminum conductor be nation. Please note that the nominal comust be adapted to the reduce tivity of the aluminum conduct 2.5 mm² = 16 A 4 mm² = 22 A Solid conductor O.08 2.5 mm² / 28 12 AWC Fine-stranded conductor 0.08 2.5 mm² / 28 12 AWC Note (conductor cross-section)				 Prevents fresh oxidation at the ping point. Prevents electrolytic corrosio ween aluminum and copper cor (in the same terminal block). Provides long-term protection
Plus" additionally on the whole of the aluminum conductor be nation. Please note that the nominal comust be adapted to the reduce tivity of the aluminum conduct 2.5 mm² = 16 A 4 mm² = 22 A Solid conductor Fine-stranded conductor Note (conductor cross-section) Please note that the nominal comust the nominal comust be adapted to the reduce tivity of the aluminum conduct 2.5 mm² / 28 12 AWG				Using terminal blocks with CAG CLAMP® Spring Pressure Conn Technology, aluminum conduc first be cleaned with a blade a immediately inserted into the clunits filled with "Alu-Plus" conta
must be adapted to the reduce tivity of the aluminum conduct $2.5 \text{ mm}^2 = 16 \text{ A}$ $4 \text{ mm}^2 = 22 \text{ A}$ Solid conductor $0.08 \dots 2.5 \text{ mm}^2 / 28 \dots 12 \text{ AWC}$ Fine-stranded conductor $0.08 \dots 2.5 \text{ mm}^2 / 28 \dots 12 \text{ AWC}$ Note (conductor cross-section) 12 AWG : THHN, THWN				It is also possible to apply WAG Plus" additionally on the whole of the aluminum conductor befination.
Fine-stranded conductor 0.08 2.5 mm² / 28 12 AWG Note (conductor cross-section) 12 AWG: THHN, THWN				
Note (conductor cross-section) 12 AWG: THHN, THWN			Solid conductor	0.08 2.5 mm² / 28 12 AWG
			Fine-stranded conductor	0.08 2.5 mm ² / 28 12 AWG
Strip length 8 9 mm / 0.31 0.35 inches			Note (conductor cross-section)	12 AWG: THHN, THWN
			Strip length	8 9 mm / 0.31 0.35 inches

Physical data	
Width	5 mm / 0.197 inches
Height	50 mm / 1.969 inches
Depth from upper-edge of DIN-rail	28 mm / 1.102 inches

Wiring direction

Front-entry wiring

Data Sheet | Item Number: 280-601 https://www.wago.com/280-601



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

Maradalan	
Material data	
Note (material data)	Information on material specifications can be found here
Color	gray
Material group	
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.093 MJ
Weight	4.8 g

vironmental requirements			
cessing temperature	-35 +85 °C	Environmental Testing (Environmental Conditions)	
Continuous operating temperature -60 +105 °C	-60 +105 °C	Test specification Railway applications – Rolling stock – Electronic equipment	DIN EN 50155 (VDE 0115-200):2022
		Test procedure Railway applications – Rolling stock equipment – Shock and vibration tests	DIN EN 61373 (VDE 0115-0106):201
		Spectrum/Installation location	Service life test, Category 1, Class A
		Function test with noise-like vibration	Test passed according to Section 8 of the standard
		Frequency	$f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$ $f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$
		Acceleration	O.101g (highest test level used for al axes) O.572g (highest test level used for al axes) 5g (highest test level used for all axe
		Test duration per axis	10 min. 5 h
		Test directions	X, Y and Z axes X, Y and Z axes X, Y and Z axes
		Monitoring for contact faults/interruptions	Passed
		Voltage drop measurement before and after each axis	Passed
		Simulated service life test through increased levels of noise-like vibration	Test passed according to Section 9 the standard
		Extended test scope: Monitoring for contact faults/interruptions	Passed Passed
		Extended test scope: Voltage drop measurement before and after each axis	Passed Passed
		Shock test	Test passed according to Section 10 the standard
		Shock form	Half sine
		Shock duration	30 ms
		Number of shocks per axis	3 pos. und 3 neg.
		Vibration and shock stress for rolling stock equipment	Passed

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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)	100 pcs
Packaging type	Box
Country of origin	DE
GTIN	4044918465298
Customs tariff number	85369010000

Environmental Product Compliance

RoHS Compliance Status Compliant,No Exemption

Approvals / Certificates

General approvals







Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	2157201.01
CSA DEKRA Certification B.V.	C22.2	1536071
UL Underwriters Laboratories Inc.	UL 1059	E45172

Declarations of conformity and manufacturer's declarations



Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
Railway WAGO GmbH & Co. KG	-	Z00004418.000
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Approvals for marine applications









Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	EN 60947	20-HG1941090-PDA
BV Bureau Veritas S.A.	EN 60947	07436/F0 BV
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00001V2
LR Lloyds Register	EN 60947	91/20112 (E9)

https://www.wago.com/280-601



Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 280-601



Documentation

Additional Information

Technical Section

pui

2246.92 KB



CAD/CAE-Data

CAD data

2D/3D Models 280-601



CAE data

EPLAN Data Portal 280-601



280-601

ZUKEN Portal 280-601



1 Compatible Products

1.1 Required Accessories

1.1.1 End plate

1.1.1.1 End plate

Item No.: 280-330

gray



End and intermediate plate; 2.5 mm thick;





End and intermediate plate; 2.5 mm thick; orange





Item No.: 280-338
Separator plate; 2 mm thick; oversized; gray



Item No.: 280-328

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



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; 35×15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored



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



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

https://www.wago.com/280-601



1.2.1.1 Mounting accessories



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



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



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 End plate

1.2.2.1 End plate





Item No.: 284-334

Step-down cover plate; 1 mm thick; for 2-, 3- and 4-conductor terminal blocks; gray

Item No.: 284-344

Item No.: 210-504

Step-down cover plate; 1 mm thick; for 2-, 3- and 4-conductor terminal blocks; orange

1.2.3 Ferrule

1.2.3.1 Ferrule



Item No.: 216-301

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

Item No.: 216-202

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

1.2.4 Installation

1.2.4.1 Cover



Item No.: 709-153

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

https://www.wago.com/280-601



1.2.4.2 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

1.2.4.3 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

1.2.5 Insulation stop

1.2.5.1 Insulation stop



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

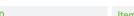
Insulation stop; 0.75 - 1 mm²; 5 pieces/ strip; black

1.2.6 Jumper

1.2.6.1 Jumper

Item No.: 280-470





Jumper; 10-way; insulated; gray



Jumper; 2-way; insulated; gray



Jumper; 2-way; insulated; gray

Item No.: 280-483

Jumper; 3-way; insulated; gray





Jumper; 4-way; insulated; gray



Jumper; 5-way; insulated; gray

Item No.: 280-402

Jumper; insulated; gray

Item No.: 280-409 Jumper; insulated; gray



Item No.: 280-422

Jumper; insulated; yellow-green

Item No.: 780-452

Item No.: 780-456

Staggered jumper; from 1 to 2; insulated; gray

Item No.: 780-453

Staggered jumper; from 1 to 3; insulated; gray

Item No.: 780-454

Staggered jumper; from 1 to 4; insulated; gray



Item No.: 780-455

Staggered jumper; from 1 to 5; insulated; gray



Item No.: 780-457

Staggered jumper; from 1 to 7; insulated; gray

Item No.: 780-458

Staggered jumper; from 1 to 8; insulated;



Item No.: 284-414

Step-down jumper; from 284/282 to 281/280/279 series; insulated; gray



Staggered jumper; from 1 to 6; insulated;

Item No.: 709-110

Wire commoning chain; 2.5 mm²; insulated; black



Item No.: 709-111

Wire commoning chain; 2.5 mm²; insulated; black



Item No.: 709-112

Wire commoning chain; 2.5 mm²; insula-



Item No.: 210-103

Wire commoning chain; insulated; black



Item No.: 210-123

Wire commoning chain; insulated; blue

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1.2.7 Marking

1.2.7.1 Double marker carrier



Item No.: 209-128 Adaptor; gray

1.2.7.2 Group marker carrier









Item No.: 209-142 Group marker carrier; gray

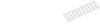


Group marker carrier; gray

1.2.7.3 Marker

Item No.: 793-5501

Item No.: 209-140



WMB marking card; as card; for terminal

block width 5 - 17.5 mm; stretchable 5 -

5.2 mm; plain; snap-on type; white

Group marker carrier; gray



Item No.: 209-141

Group marker carrier; gray

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

Item No.: 2009-115

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

4

1.2.8 Plug

1.2.8.1 Component module with diode



Item No.: 280-803/281-411

Component plug; 2-pole; with diode 1N4007; 10 mm wide; gray





Component plug; 2-pole; with rectifier diode and LED; 10 mm wide; gray



Item No.: 280-803/281-421

Component plug; 2-pole; with rectifier diode and LED; 10 mm wide; gray

1.2.8.2 Component module with LED





Component plug; 2-pole; LED (red); 10





Component plug; 2-pole; LED (red); 24 VDC; 10 mm wide; gray

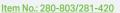


Item No.: 280-803/281-414

Component plug; 2-pole; LED (red); 48 VDC; 10 mm wide; gray



Component plug; 2-pole; LED (red); 10



Item No.: 280-803/281-415

mm wide; gray

Component plug; 2-pole; with rectifier diode and LED; 10 mm wide; gray

Item No.: 280-803/281-421

Item No.: 280-803/281-416

mm wide; gray

Component plug; 2-pole; with rectifier diode and LED; 10 mm wide; gray

1.2.8.3 Empty component plug housing



Item No.: 280-803

Empty component plug housing; 10 mm wide; Type 4; 2-pole; gray

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1.2.8.4 Neon indicator module



Item No.: 280-803/281-417

Component plug; 2-pole; 10 mm wide; gray

Item No.: 280-803/281-418

Component plug; 2-pole; 10 mm wide; gray

1.2.9 Protective warning marker

1.2.9.1 Cover



Item No.: 280-415

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

1.2.10 Push-in type wire jumper

1.2.10.1 Jumper



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

1.2.11 Test and measurement

1.2.11.1 Testing accessories



Item No.: 249-107

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

<u>Item No.: 249-106</u>

B-type test plug module; modular; 1,50 mm²; gray

Item No.: 249-147

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

<u>Item No.: 249-142</u>

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

Item No.: 249-143

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

Item No.: 249-141

L-type test plug module; modular; with spring-loaded contact pin; Center module; 1,50 mm²; gray

Item No.: 280-419

Spacer module; modular; bridging commoned terminal blocks; 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.: 209-170

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plugs; suitable for 1.5 mm² - 10 mm² tbs; gray

Item No.: 280-418

Test plug module; modular; suitable for all WAGO 280 and 780 Series rail-mounted terminal blocks with jumper slots in the current bar; gray

Item No.: 281-407

Test plug; 6 mm wide; Nominal current 24 A; for 0.08 mm² - 2.5 mm²; 2,50 mm²; gray



1.2.12 Tool

1.2.12.1 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 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; 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).

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.



Inserting insulation stops.



CAGE CLAMP® connection Removing a solid conductor.

Commoning



Commoning using an adjacent jumper. Push jumper down until fully inserted!

Testing



Testing with a test plug. Picture shows a test plug fitted with CAGE CLAMP®.



L-type test plug modules fitted with CAGE CLAMP®



B-type test plug modules fitted with CAGE CLAMP $^{\!\scriptscriptstyle{(\!0\!)}}$



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

https://www.wago.com/280-601



Testing



Test plugs modules are directly plugged into the jumper contact slot of the current bar.

Cover



Protective warning markers inserted into the operating slots

Marking



Labeling via WMB Multi Marking System.



Terminal block marking with double marker carriers (209-128) Terminal blocks with side marking

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