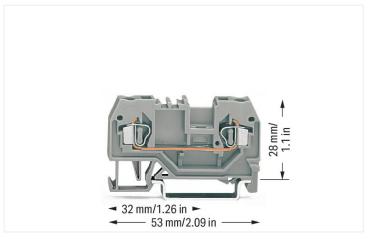
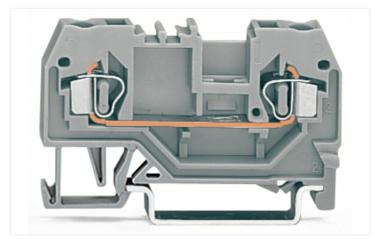
2-conductor through terminal block; 2.5 mm²; center marking; for DIN-rail 35 x 15 and 35 x 7.5; CAGE CLAMP®; 2,50 mm²; gray

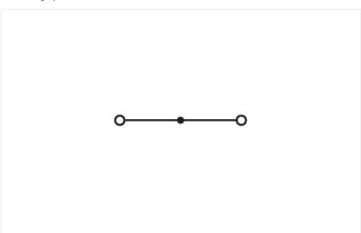


https://www.wago.com/280-901









Similar to illustration

Through terminal block, 280 Series, operating tool

Our through terminal block (item number 280-901) makes connections quick and easy. Whether for industrial or building applications, you can use our through terminal blocks to connect electrical conductors quickly and safely. We offer variants for both classic through-wiring and potential distribution. Our through rail-mount terminal block is rated for 800 V and is designed to handle a rated current of up to 24 A. Ensure that the strip lengths are between 8 mm and 9 mm when connecting conductors to this through terminal block. This product features 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. Depending on the type of conductor, this through terminal block is suitable for conductor cross sections ranging from 0.08 mm² to 2.5 mm². It comes with one level and two clamping points that you can use to connect a single potential. The gray housing is made of polyamide (PA66) for insulation. An operating tool is used to operate this through rail-mount terminal block. 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: 280-901 https://www.wago.com/280-901



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

CLAMP® Spring Pres Technology, aluminu first be cleaned with immediately inserted units filled with "Alu-F It is also possible to a Plus" additionally on of the aluminum cond nation. Please note that the i must be adapted to t tivity of the aluminum 2.5 mm² = 16 A 4 mm² = 22 A Solid conductor 0.08 2.5 mm² / 28 . Fine-stranded conductor 0.08 2.5 mm² / 28 . Note (conductor cross-section) 12 AWG: THHN, THW				
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$\begin{array}{c} \text{must be adapted to t} \\ \text{tivity of the aluminum} \\ 2.5 \text{ mm}^2 = 16 \text{ A} \\ 4 \text{ mm}^2 = 22 \text{ A} \\ \\ \text{Solid conductor} \\ \text{Fine-stranded conductor} \\ \text{Note (conductor cross-section)} \\ \end{array}$				Plus" additionally of the aluminum of
Fine-stranded conductor 0.08 2.5 mm² / 28 Note (conductor cross-section) 12 AWG: THHN, THW				must be adapted tivity of the alumin 2.5 mm ² = 16 A
Note (conductor cross-section) 12 AWG: THHN, THW			Solid conductor	0.08 2.5 mm ² /
			Fine-stranded conductor	0.08 2.5 mm ² /
Strip length 8 9 mm / 0.31 0.3			Note (conductor cross-section)	12 AWG: THHN, T
			Strip length	8 9 mm / 0.31

Physical data	
Width	5 mm / 0.197 inches
Height	53 mm / 2.087 inches
Depth from upper-edge of DIN-rail	28 mm / 1.102 inches

Wiring direction

Front-entry wiring

https://www.wago.com/280-901



Mechanical data

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	0.096 MJ
Weight	5.4 g

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	27-14-11-20
eCl@ss 9.0	27-14-11-20
ETIM 9.0	EC000897
ETIM 8.0	EC000897
PU (SPU)	100 pcs
Packaging type	Вох
Country of origin	PL
GTIN	4044918391726
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 Confor- mity WAGO GmbH & Co. KG	-	-
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Data Sheet | Item Number: 280-901 https://www.wago.com/280-901



Approvals for marine applications









VERITAS	DMACOWWE	
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)

Downloads	
Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 280-901	\perp

Documentation						
Additional Information			Bid Text			
Technical Section	pdf 2246.92 KB	$\overline{\downarrow}$	280-901	19.02.2019	xml 3.27 KB	<u>↓</u>
			280-901	28.02.2017	doc 24.00 KB	$\underline{\downarrow}$

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 280-901	EPLAN Data Portal 280-901
	WSCAD Universe 280-901
	ZUKEN Portal 280-901



1 Compatible Products

1.1 Required Accessories

1.1.1 End plate

1.1.1.1 End plate



<u>Item No.: 280-308</u> <u>Item No.: 280-309</u>

End and intermediate plate; 2.5 mm thick; grav



End and intermediate plate; 2.5 mm thick; orange

Item No.: 280-310

Separator plate; 2 mm thick; oversized; gray

Item No.: 280-311

Separator plate; 2 mm thick; oversized; orange

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



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 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

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

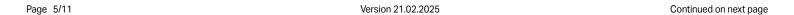
Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise

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



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1.2.3.1 Ferrule

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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

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

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



.111.)

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 35×15 and 35×7.5 ; gray

1.2.5 Insulation stop

1.2.5.1 Insulation stop



Item No.: 280-470

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

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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

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1.2.6 Jumper

1.2.6.1 Jumper

Item No.: 280-490

Jumper; 10-way; insulated; gray

Item No.: 280-482

Jumper; 2-way; insulated; gray

Item No.: 280-492

Jumper; 2-way; insulated; gray

Item No.: 280-483

Jumper; 3-way; insulated; gray

Item No.: 280-484

Jumper; 4-way; insulated; gray

Item No.: 280-485

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

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.: 780-456

Staggered jumper; from 1 to 6; 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; gray

Item No.: 284-414

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

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; insulated; black

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Item No.: 210-103

Wire commoning chain; insulated; black

Item No.: 210-123

Wire commoning chain; insulated; blue

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.: 209-140

Group marker carrier; gray

Item No.: 209-141

Group marker carrier; gray

Item No.: 209-142

Group marker carrier; gray

5

Item No.: 249-105

Group marker carrier; gray

1.2.7.3 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 Item No.: 793-501

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

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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 Item No.: 280-803/281-420 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



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Item No.: 280-803/281-416 Component plug; 2-pole; LED (red); 10

ltem No.: 280-803/281-413 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.: 280-803/281-420

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

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

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

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1.2.10 Push-in type wire jumper

1.2.10.1 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

1.2.11 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

Item No.: 249-106

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

Item No.: 249-147

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

Item No.: 249-142

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 Ø); 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

Item No.: 210-658

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).

MAGO

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!



Staggered jumpers are suitable for sophisticated circuit requirements. Push jumpers down until fully inserted!



Push-In Type Wire Jumpers

When installing machines or control systems, it is often necessary to make an additional connection between two terminal blocks that are not next to each other on the rail. In such cases, WAGO's touchproof, push-in type wire jumpers are the ideal solution.

These jumpers are compatible with the following rail-mount terminal blocks:

- 279 Series (1.5 mm²/16 AWG),
- 280/775/780 Series (2.5 mm²/14 AWG)
- 281/769/776/777/781 and 880 Series (4 mm²/12 AWG)

They are available in three conductor lengths (60, 110 and 250 mm), allowing up to 60 terminal blocks to be commoned depending on their width (see table on the right).

The 280/775/780 and 281/776/777/781 Series Terminal Blocks accept two wire jumpers, allowing the use of commoning chains. Furthermore, the 280/769/775/780/880 and 281/776/777/781 Series allow both wire jumper and adjacent jumper to be simultaneously plugged into a same terminal



Commoning using comb-style jumper bars:

Push comb-style jumper bars down until fully inserted.



Commoning terminal blocks of different sizes via step-down jumpers.

https://www.wago.com/280-901



Testing



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



L-type test plug modules fitted with CA-GE CLAMP®



B-type test plug modules fitted with CAGE CLAMP $^{\! \odot}$



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



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



 ${\bf Labeling\ via\ WMB\ Multi\ Marking\ System}.$



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

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