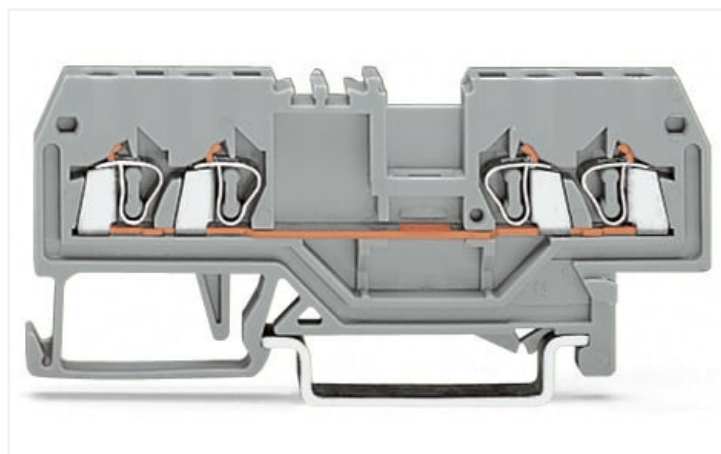
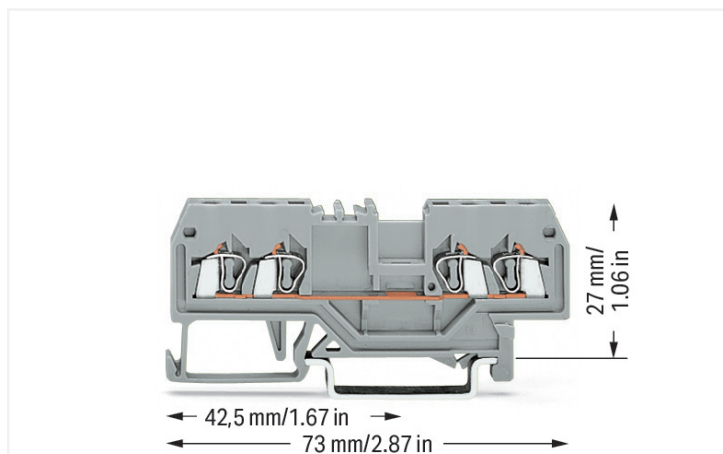


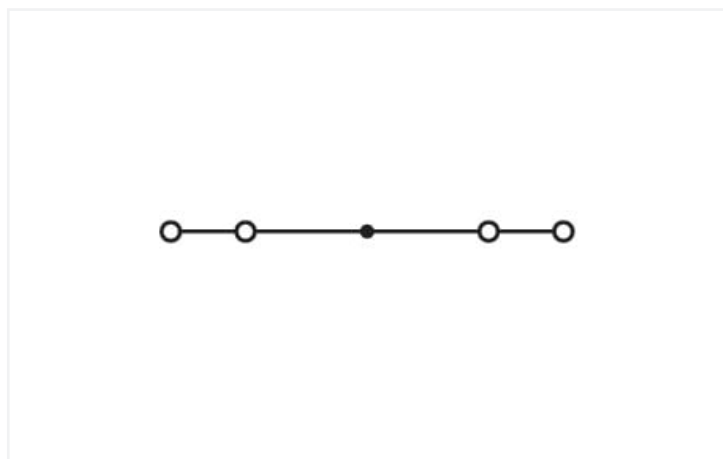
## Data Sheet | Item Number: 279-831

4-conductor through terminal block; 1.5 mm<sup>2</sup>; center marking; for DIN-rail 35 x 15 and 35 x 7.5; CAGE CLAMP®; 1,50 mm<sup>2</sup>; gray

<https://www.wago.com/279-831>



Color: ■ gray



Similar to illustration

### Electrical data

Ratings per	IEC/EN 60947-7-1		
Overtoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	800 V	-	-
Rated surge voltage	8 kV	-	-
Rated current	18 A	-	-

Approvals per	UL 1059		
Use group	B	C	D
Rated voltage	-	600 V	-
Rated current	-	10 A	-

Approvals per	CSA 22.2 No 158		
Use group	B	C	D
Rated voltage	-	600 V	-
Rated current	-	10 A	-

Power loss	
Power loss, per pole (potential)	0.5929 W
Rated current $I_N$ for specified power loss	18 A
Resistance value for specified, current-dependent power loss	0.00183 $\Omega$

### Connection data

Connection points	4
Total number of potentials	1
Number of levels	1

Connection 1	
Connection technology	CAGE CLAMP®
Actuation type	Operating tool
Connectable conductor materials	Copper
Solid conductor	0.08 ... 1.5 mm <sup>2</sup> / 28 ... 16 AWG
Fine-stranded conductor	0.08 ... 1.5 mm <sup>2</sup> / 28 ... 16 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches
Wiring direction	Front-entry wiring

### Physical data

Width	4 mm / 0.157 inches
Height	73 mm / 2.874 inches
Depth from upper-edge of DIN-rail	27 mm / 1.063 inches

### Mechanical data

Mounting type	DIN-35 rail
Marking level	Center marking

### Material data

Note (material data)	<a href="#">Information on material specifications can be found here</a>
Color	gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.116 MJ
Weight	6.3 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 8.0	EC000897
ETIM 7.0	EC000897
PU (SPU)	100 pcs
Packaging type	Box
Country of origin	DE
GTIN	4044918520423
Customs tariff number	85369010000

**Environmental Product Compliance**

RoHS Compliance Status	Compliant, No Exemption
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**Approvals / Certificates**

**General approvals** **Declarations of conformity and manufacturer's declarations**



Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR NL-7081
CSA DEKRA Certification B.V.	C22.2 No. 158	70133738
KEMA/KEUR DEKRA Certification B.V.	EN 60947	2160584.04
UL Underwriters Laboratories Inc.	UL 1059	E45172

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

**Approvals for marine applications**



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

**Downloads**

**Environmental Product Compliance**

Compliance Search
Environmental Product Compliance 279-831

**Documentation**

Additional Information		
Technical Section	pdf 2142.18 KB	<a href="#">↓</a>

Bid Text			
279-831	19.02.2019	xml 3.19 KB	<a href="#">↓</a>
279-831	28.02.2017	doc 23.50 KB	<a href="#">↓</a>

CAD/CAE-Data	
<b>CAD data</b>	<b>CAE data</b>
2D/3D Models 279-831 <a href="#">↓</a>	EPLAN Data Portal 279-831 <a href="#">↓</a>
	WSCAD Universe 279-831 <a href="#">↓</a>
	ZUKEN Portal 279-831 <a href="#">↓</a>

## 1 Compatible Products

### 1.1 Required Accessories

#### 1.1.1 End plate









##### 1.1.1.1 End plate

			
<a href="#">Item No.: 279-344</a> End and intermediate plate; 2 mm thick; gray	<a href="#">Item No.: 279-346</a> End and intermediate plate; 2 mm thick; orange	<a href="#">Item No.: 279-345</a> Separator plate; 2 mm thick; oversized; gray	<a href="#">Item No.: 279-347</a> Separator plate; 2 mm thick; oversized; orange
			
<a href="#">Item No.: 284-336</a> Step-down cover plate; 1 mm thick; for 4-conductor 279-831, 280-833 and 281-652 terminal blocks; gray	<a href="#">Item No.: 284-346</a> Step-down cover plate; 1 mm thick; for 4-conductor 279-831, 280-833 and 281-652 terminal blocks; orange		

## 1.2 Optional Accessories

### 1.2.1 DIN-rail

#### 1.2.1.1 Mounting accessories

			
<a href="#">Item No.: 210-196</a> Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored	<a href="#">Item No.: 210-198</a> Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored	<a href="#">Item No.: 210-508</a> Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715; silver-colored	<a href="#">Item No.: 210-197</a> Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored
			
<a href="#">Item No.: 210-506</a> Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715; silver-colored	<a href="#">Item No.: 210-114</a> Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored	<a href="#">Item No.: 210-118</a> Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored	<a href="#">Item No.: 210-115</a> 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

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



**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 mm<sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow



**Item No.: 216-302**  
Ferrule; Sleeve for 0.34 mm<sup>2</sup> / 22 AWG; insulated; electro-tin plated; light turquoise



**Item No.: 216-201**  
Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; insulated; electro-tin plated; white



**Item No.: 216-101**  
Ferrule; Sleeve for 0.5 mm<sup>2</sup> / AWG 22; un-insulated; electro-tin plated; silver-colored



**Item No.: 216-202**  
Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray



**Item No.: 216-102**  
Ferrule; Sleeve for 0.75 mm<sup>2</sup> / AWG 20; un-insulated; electro-tin plated; silver-colored



**Item No.: 216-203**  
Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; red



**Item No.: 216-103**  
Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; un-insulated; electro-tin plated

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



**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

1.2.5 Insulation stop

1.2.5.1 Insulation stop



**Item No.: 279-470**

Insulation stop; 0.08 - 0.2 mm<sup>2</sup> "s" (0.14 mm<sup>2</sup> "f-st"); 5 pieces/strip; white

**Item No.: 279-471**

Insulation stop; 0.25 mm<sup>2</sup>; 5 pieces/strip; dark gray

1.2.6 Jumper

1.2.6.1 Jumper



**Item No.: 279-490**

Jumper; 10-way; insulated; gray

**Item No.: 279-482**

Jumper; 2-way; insulated; gray

**Item No.: 279-492**

Jumper; 2-way; insulated; gray

**Item No.: 279-483**

Jumper; 3-way; insulated; gray



**Item No.: 279-402**

Jumper; insulated; gray

**Item No.: 279-409**

Jumper; insulated; gray

**Item No.: 279-422**

Jumper; insulated; yellow-green

**Item No.: 284-414**

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

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

**Item No.: 249-105**

Group marker carrier; gray

1.2.7.3 Marker



**Item No.: 793-4501/000-006**

WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; blue

**Item No.: 793-4501/000-014**

WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; brown

**Item No.: 793-4501/000-007**

WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; gray

**Item No.: 793-4501/000-023**

WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; green



**Item No.: 793-4501/000-017**

WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; light green

**Item No.: 793-4501/000-012**

WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; orange

**Item No.: 793-4501/000-005**

WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; red

**Item No.: 793-4501/000-024**

WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; violet

### 1.2.7.3 Marker



**Item No.: 793-4501**

WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; white

**Item No.: 793-4501/000-002**

WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; yellow

**Item No.: 2009-114/000-006**

WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; blue

**Item No.: 2009-114/000-007**

WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; gray



**Item No.: 2009-114/000-023**

WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; green

**Item No.: 2009-114/000-012**

WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; orange

**Item No.: 2009-114/000-005**

WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; red

**Item No.: 2009-114/000-024**

WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; violet



**Item No.: 2009-114**

WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; white

**Item No.: 2009-114/000-002**

WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; yellow

### 1.2.8 Protective warning marker

#### 1.2.8.1 Cover



**Item No.: 279-415**

Protective warning marker; 5-pole; with high-voltage symbol, black; yellow

### 1.2.9 Push-in type wire jumper

#### 1.2.9.1 Jumper



**Item No.: 249-126**

Push-in type wire jumper; 0.75 mm<sup>2</sup>; insulated; 110 mm long; black

**Item No.: 249-123**

Push-in type wire jumper; 0.75 mm<sup>2</sup>; insulated; 180 mm long; black

**Item No.: 249-127**

Push-in type wire jumper; 0.75 mm<sup>2</sup>; insulated; 250 mm long; black

**Item No.: 249-125**

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

### 1.2.10 Test and measurement

#### 1.2.10.1 Testing accessories



**Item No.: 280-404**

Test plug adapter; 5 mm wide; for test plug (2.3 mm Ø); suitable for 1.5 mm<sup>2</sup> - 4 mm<sup>2</sup> tbs; gray

**Item No.: 209-170**

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plugs; suitable for 1.5 mm<sup>2</sup> - 10 mm<sup>2</sup> tbs; gray

### 1.2.11 Tool

1.2.11.1 Operating tool



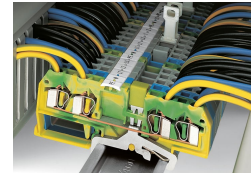
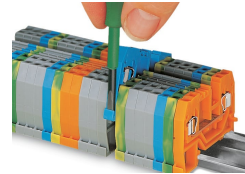
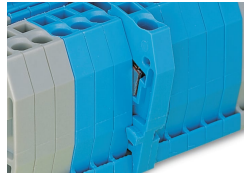
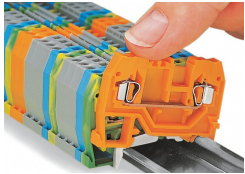
**Item No.: 210-719**  
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

**Item No.: 210-648**  
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short

**Item No.: 210-647**  
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured

Installation Notes

Installation



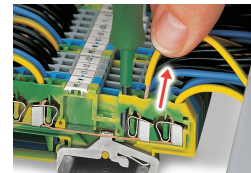
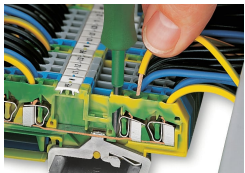
Snapping a terminal block onto the DIN-rail.

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.

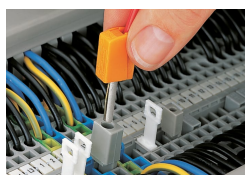
CAGE CLAMP® connection  
Inserting a conductor.  
With ferruled conductors, it is necessary to use a terminal block one size larger than the conductor's nominal cross-section.

Inserting insulation stops.

CAGE CLAMP® connection  
Removing a solid conductor.

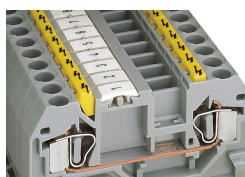


## Testing



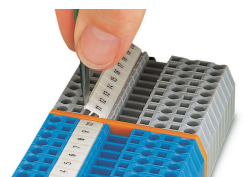
Testing with a test plug.  
Picture shows a test plug adapter  
(209-170).

## Cover



Protective warning markers inserted into  
the operating slots

## Marking



Labeling via WMB Multi Marking System.