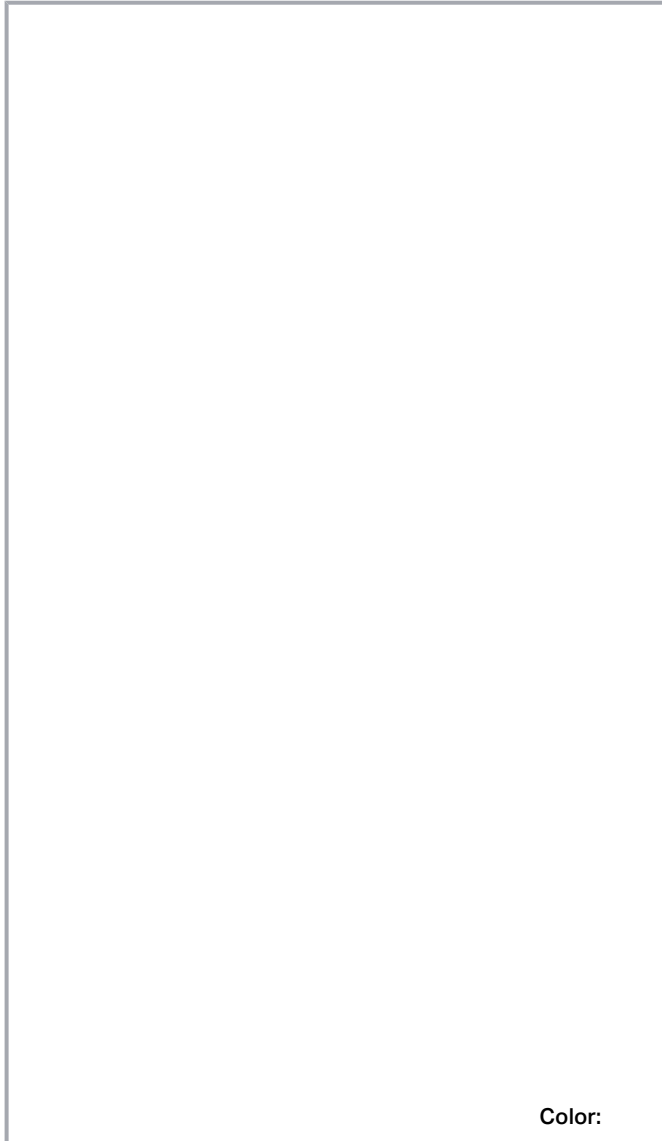


**Data sheet | Item number: 279-993**

3-conductor through terminal block; 1.5 mm<sup>2</sup>; suitable for Ex e II applications; center marking; for DIN-rail 35 x 15 and 35 x 7.5; CAGE CLAMP®; 1,50 mm<sup>2</sup>; light gray

[www.wago.com/279-993](http://www.wago.com/279-993)

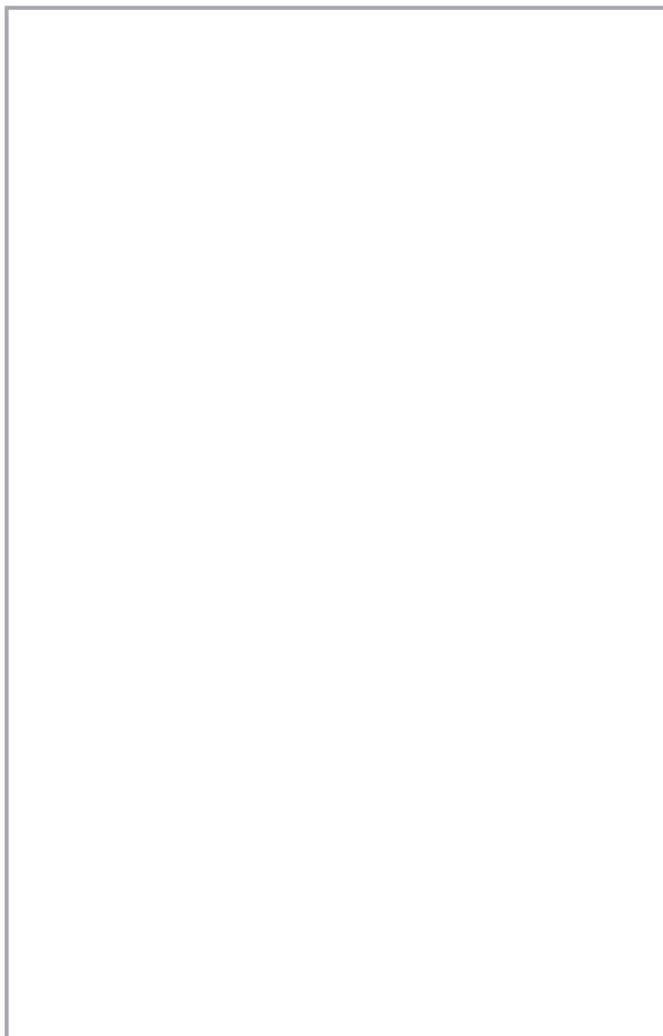


Subject to changes. Please also observe the further product documentation!

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Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.



## Data

### Electrical data

#### Ratings per IEC/EN

Ratings per	IEC/EN 60947-7-1
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#### Ratings per UL

Approvals per	UL 1059
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Rated voltage UL (Use Group C)	600 V
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Rated current UL (Use Group C)	10 A
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Subject to changes. Please also observe the further product documentation!

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## Ratings per CSA

Approvals per	CSA 22.2 No 158
Rated voltage CSA (Use Group C)	600 V
Rated current CSA (Use Group C)	10 A

## Ex information

Reference hazardous areas	See application instructions in section "Knowledge and Downloads – Documentation – Additional Information: Technical Section; Technical Explications"
Ratings per	ATEX: PTB 00 ATEX 3113 U / IECEx: PTB 03.0004U (Ex eb IIC Gb or Ex eb I Mb)
Rated voltage EN (Ex e II)	550 V
Rated current (Ex e II)	15 A

## Power Loss

Power loss, per pole (potential)	0.412 W
Rated current $I_N$ for specified power loss	15 A
Resistance value for specified, current-dependent power loss	0.002 $\Omega$

## Connection data

Connection points	3
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	62.5 mm / 2.461 inches

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



Depth from upper-edge of DIN-rail	27 mm / 1.063 inches
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### Mechanical Data

Mounting type	DIN-35 rail
Marking level	Center marking

### Material Data

Note (material data)	Information on material specifications can be found here
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Color	light gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.104 MJ
Weight	5.4 g

### Environmental requirements

Processing temperature	-35 ... +85 °C
Continuous operating temperature	-60 ... +105 °C

### Commercial data

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	4044918650588
Customs tariff number	85369010000

### Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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Subject to changes. Please also observe the further product documentation!



## Approvals / Certificates

### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>CCA</b> DEKRA Certification B.V.	EN 60947	NTR NL-7081
	<b>KEMA/KEUR</b> DEKRA Certification B.V.	EN 60947	2160584.04
	<b>UL</b> Underwriters Laboratories Inc.	UL 1059	E45172

### Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	<b>EU-Declaration of Conformity</b> WAGO GmbH & Co. KG	-	-
	<b>UK-Declaration of Conformity</b> WAGO GmbH & Co. KG	-	-

### Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
	<b>DNV GL</b> Det Norske Veritas, Germanischer Lloyd	-	TAE00001V2
	<b>LR</b> Lloyds Register	EN 60947	91/20112 (E9)

### Approvals for hazardous areas

Logo	Approval	Additional Approval Text	Certificate name
	<b>ATEX</b> Physikalisch Technische Bundesanstalt (PTB)	-	PTB 00 ATEX 3113 U (II 2 G Ex eb IIC Gb bzw. I M 2 Ex eb I Mb)

## Required accessories

### End plate

End plate

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

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Item no.: 279-341

End and intermediate plate; 2 mm thick; light gray

[www.wago.com/279-341](http://www.wago.com/279-341)

## Optional accessories

### Jumpers

Jumper		
<b>Item no.: 279-402</b>	Jumper; insulated; gray	<a href="http://www.wago.com/279-402">www.wago.com/279-402</a>
<b>Item no.: 279-409</b>	Jumper; insulated; gray	<a href="http://www.wago.com/279-409">www.wago.com/279-409</a>
<b>Item no.: 279-422</b>	Jumper; insulated; yellow-green	<a href="http://www.wago.com/279-422">www.wago.com/279-422</a>
<b>Item no.: 279-492</b>	Jumper; 2-way; insulated; gray	<a href="http://www.wago.com/279-492">www.wago.com/279-492</a>
<b>Item no.: 279-490</b>	Jumper; 10-way; insulated; gray	<a href="http://www.wago.com/279-490">www.wago.com/279-490</a>
<b>Item no.: 279-482</b>	Jumper; 2-way; insulated; gray	<a href="http://www.wago.com/279-482">www.wago.com/279-482</a>
<b>Item no.: 279-483</b>	Jumper; 3-way; insulated; gray	<a href="http://www.wago.com/279-483">www.wago.com/279-483</a>
Push-in type wire jumper		
Jumper		
<b>Item no.: 249-123</b>	Push-in type wire jumper; 0.75 mm <sup>2</sup> ; insulated; 180 mm long; black	<a href="http://www.wago.com/249-123">www.wago.com/249-123</a>
<b>Item no.: 249-126</b>	Push-in type wire jumper; 0.75 mm <sup>2</sup> ; insulated; 110 mm long; black	<a href="http://www.wago.com/249-126">www.wago.com/249-126</a>
<b>Item no.: 249-127</b>	Push-in type wire jumper; 0.75 mm <sup>2</sup> ; insulated; 250 mm long; black	<a href="http://www.wago.com/249-127">www.wago.com/249-127</a>
<b>Item no.: 249-125</b>	Push-in type wire jumper; insulated; 60 mm long; black	<a href="http://www.wago.com/249-125">www.wago.com/249-125</a>
Mounting		
Cover carrier		
<b>Item no.: 709-167</b>	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	<a href="http://www.wago.com/709-167">www.wago.com/709-167</a>
Cover		
<b>Item no.: 709-153</b>	Cover; Type 1; suitable for cover carrier, type 1; 1 m long; transparent	<a href="http://www.wago.com/709-153">www.wago.com/709-153</a>

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



Mounting accessories		
<b>Item no.: 209-106</b>	Mounting carrier; for isolated mounting on DIN 35 rails; gray	<a href="http://www.wago.com/209-106">www.wago.com/209-106</a>
<b>Item no.: 249-116</b>	Screwless end stop; 6 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray	<a href="http://www.wago.com/249-116">www.wago.com/249-116</a>
Carrier rail		
Mounting accessories		
<b>Item no.: 210-197</b>	Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored	<a href="http://www.wago.com/210-197">www.wago.com/210-197</a>
<b>Item no.: 210-198</b>	Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored	<a href="http://www.wago.com/210-198">www.wago.com/210-198</a>
<b>Item no.: 210-504</b>	Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715; silver-colored	<a href="http://www.wago.com/210-504">www.wago.com/210-504</a>
<b>Item no.: 210-505</b>	Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715; silver-colored	<a href="http://www.wago.com/210-505">www.wago.com/210-505</a>
<b>Item no.: 210-506</b>	Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715; silver-colored	<a href="http://www.wago.com/210-506">www.wago.com/210-506</a>
<b>Item no.: 210-508</b>	Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715; silver-colored	<a href="http://www.wago.com/210-508">www.wago.com/210-508</a>
<b>Item no.: 210-113</b>	Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored	<a href="http://www.wago.com/210-113">www.wago.com/210-113</a>
<b>Item no.: 210-118</b>	Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored	<a href="http://www.wago.com/210-118">www.wago.com/210-118</a>
<b>Item no.: 210-112</b>	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	<a href="http://www.wago.com/210-112">www.wago.com/210-112</a>
<b>Item no.: 210-114</b>	Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored	<a href="http://www.wago.com/210-114">www.wago.com/210-114</a>
<b>Item no.: 210-115</b>	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	<a href="http://www.wago.com/210-115">www.wago.com/210-115</a>
<b>Item no.: 210-196</b>	Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored	<a href="http://www.wago.com/210-196">www.wago.com/210-196</a>
Ferrule		
Ferrule		
<b>Item no.: 216-101</b>	Ferrule; Sleeve for 0.5 mm <sup>2</sup> / AWG 22; uninsulated; electro-tin plated; silver-colored	<a href="http://www.wago.com/216-101">www.wago.com/216-101</a>

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



<b>Item no.: 216-102</b> Ferrule; Sleeve for 0.75 mm <sup>2</sup> / AWG 20; uninsulated; electro-tin plated; silver-colored	<a href="http://www.wago.com/216-102">www.wago.com/216-102</a>
<b>Item no.: 216-103</b> Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; uninsulated; electro-tin plated	<a href="http://www.wago.com/216-103">www.wago.com/216-103</a>
<b>Item no.: 216-203</b> Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; red	<a href="http://www.wago.com/216-203">www.wago.com/216-203</a>
<b>Item no.: 216-202</b> Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray	<a href="http://www.wago.com/216-202">www.wago.com/216-202</a>
<b>Item no.: 216-201</b> Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; white	<a href="http://www.wago.com/216-201">www.wago.com/216-201</a>
<b>Item no.: 216-301</b> Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow	<a href="http://www.wago.com/216-301">www.wago.com/216-301</a>
<b>Item no.: 216-302</b> Ferrule; Sleeve for 0.34 mm <sup>2</sup> / 22 AWG; insulated; electro-tin plated; light turquoise	<a href="http://www.wago.com/216-302">www.wago.com/216-302</a>
<b>Tool</b>	
Operating tool	
<b>Item no.: 210-648</b> Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short	<a href="http://www.wago.com/210-648">www.wago.com/210-648</a>
<b>Item no.: 210-647</b> Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured	<a href="http://www.wago.com/210-647">www.wago.com/210-647</a>
<b>Item no.: 210-719</b> Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft	<a href="http://www.wago.com/210-719">www.wago.com/210-719</a>
<b>Insulation stop</b>	
Insulation stop	
<b>Item no.: 279-470</b> Insulation stop; 0.08 - 0.2 mm <sup>2</sup> "s" (0.14 mm <sup>2</sup> "f-st"); 5 pieces/strip; white	<a href="http://www.wago.com/279-470">www.wago.com/279-470</a>
<b>Item no.: 279-471</b> Insulation stop; 0.25 mm <sup>2</sup> ; 5 pieces/strip; dark gray	<a href="http://www.wago.com/279-471">www.wago.com/279-471</a>
<b>Protective warning marker</b>	
Cover	
<b>Item no.: 279-415</b> Protective warning marker; 5-pole; with high-voltage symbol, black; yellow	<a href="http://www.wago.com/279-415">www.wago.com/279-415</a>
<b>Marking accessories</b>	
Double marker carrier	
<b>Item no.: 209-128</b> Adaptor; gray	<a href="http://www.wago.com/209-128">www.wago.com/209-128</a>
Marker	

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





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**Item no.: 2009-114/000-002** [www.wago.com/2009-114/000-002](http://www.wago.com/2009-114/000-002)  
WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; yellow

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**Item no.: 2009-114/000-005** [www.wago.com/2009-114/000-005](http://www.wago.com/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.: 2009-114/000-007** [www.wago.com/2009-114/000-007](http://www.wago.com/2009-114/000-007)  
WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; gray

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**Item no.: 2009-114/000-023** [www.wago.com/2009-114/000-023](http://www.wago.com/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.: 2009-114/000-006** [www.wago.com/2009-114/000-006](http://www.wago.com/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.: 2009-114/000-024** [www.wago.com/2009-114/000-024](http://www.wago.com/2009-114/000-024)  
WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; violet

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**Item no.: 2009-114/000-012** [www.wago.com/2009-114/000-012](http://www.wago.com/2009-114/000-012)  
WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; orange

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**Item no.: 2009-114** [www.wago.com/2009-114](http://www.wago.com/2009-114)  
WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; white

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**Item no.: 793-4501/000-002** [www.wago.com/793-4501/000-002](http://www.wago.com/793-4501/000-002)  
WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; yellow

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**Item no.: 793-4501/000-006** [www.wago.com/793-4501/000-006](http://www.wago.com/793-4501/000-006)  
WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; blue

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**Item no.: 793-4501/000-014** [www.wago.com/793-4501/000-014](http://www.wago.com/793-4501/000-014)  
WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; brown

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**Item no.: 793-4501** [www.wago.com/793-4501](http://www.wago.com/793-4501)  
WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; white

---

**Item no.: 793-4501/000-023** [www.wago.com/793-4501/000-023](http://www.wago.com/793-4501/000-023)  
WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; green

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**Item no.: 793-4501/000-024** [www.wago.com/793-4501/000-024](http://www.wago.com/793-4501/000-024)  
WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; violet

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



Item no.: 793-4501/000-005

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

[www.wago.com/793-4501/000-005](http://www.wago.com/793-4501/000-005)

Item no.: 793-4501/000-007

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

[www.wago.com/793-4501/000-007](http://www.wago.com/793-4501/000-007)

Item no.: 793-4501/000-012

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

[www.wago.com/793-4501/000-012](http://www.wago.com/793-4501/000-012)

Item no.: 793-4501/000-017

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

[www.wago.com/793-4501/000-017](http://www.wago.com/793-4501/000-017)

Group marker carrier

Item no.: 209-142

Group marker carrier; gray

[www.wago.com/209-142](http://www.wago.com/209-142)

Item no.: 209-141

Group marker carrier; gray

[www.wago.com/209-141](http://www.wago.com/209-141)

Item no.: 209-140

Group marker carrier; gray

[www.wago.com/209-140](http://www.wago.com/209-140)

Item no.: 249-105

Group marker carrier; gray

[www.wago.com/249-105](http://www.wago.com/249-105)

Downloads

Documentation

Bid Text

279-993 X81 - Datei	2019 年2月19 日	xml 3.3 kB	Download
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279-993 doc - Datei	2017 年2月28 日	doc 24.1 kB	Download
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Additional Information

	pdf 2.3 MB	Download
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CAD/CAE-Data

CAE data

EPLAN Data Portal 279-993	URL	Download
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Subject to changes. Please also observe the further product documentation!

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WSCAD Universe 279-993	<a href="#">URL</a>	<a href="#">Download</a>
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ZUKEN Portal 279-993	<a href="#">URL</a>	<a href="#">Download</a>
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#### CAD data

2D/3D Models 279-993	<a href="#">URL</a>	<a href="#">Download</a>
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### Environmental Product Compliance

#### Compliance Search

Environmental Product Compliance 279-993	<a href="#">URL</a>	<a href="#">Download</a>
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3-conductor through terminal block; 1.5 mm<sup>2</sup>; suitable for Ex e II applications; center marking; for DIN-rail 35 x 15 and 35 x 7.5; CAGE CLAMP®; 1,50 mm<sup>2</sup>; light gray

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### Installation Notes

#### Installation



Snapping a terminal block onto the DIN-rail.



Quick assembly keys prevent reverse mounting.

---

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



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

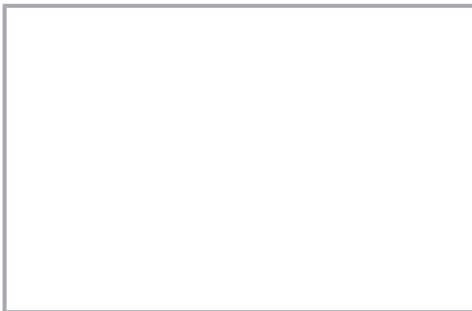
Inserting a conductor.



### 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.

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



**CAGE CLAMP® connection**

Removing a solid conductor.

**Commoning**



Commoning using an adjacent jumper.

Push jumper down until fully inserted!

---

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



### 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 touch-proof, push-in type wire jumpers are the ideal solution.

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

- 279 Series (1.5 mm<sup>2</sup>/16 AWG),
- 280/775/780 Series (2.5 mm<sup>2</sup>/14 AWG)
- 281/769/776/777/781 and 880 Series (4 mm<sup>2</sup>/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 block.

### Cover



Commoning using comb-style jumper bars:  
Push comb-style jumper bars down until fully inserted.

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



Protective warning markers inserted into the operating slots

#### Marking



Labeling via WMB Multi Marking System.

#### Ex application

---

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



#### Separator plate for Ex e/Ex i applications

According to EN 50020, a minimum distance of 50 mm must be kept between live parts of Ex e and Ex i circuits. The use of Ex e/Ex i separators is a space-saving solution when Ex e and Ex i terminal blocks are mounted on a common DIN-rail.

For 279 ... 282 Series:

209-190 for 2-conductor terminal blocks

209-191 for 2-, 3-, 4-conductor terminal blocks

#### End and intermediate plate

In order to meet creepage and clearance requirements for Ex e applications, it is necessary to insert an end or intermediate plate between a through and a ground conductor terminal block.

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