

**Data sheet | Item number: 281-530**

Quadruple-deck rail-mounted terminal block; Rail-mounted terminal block for electric motor wiring; 2.5 mm<sup>2</sup>; L1 - L2 - L3 - PE; for DIN-rail 35 x 15 and 35 x 7.5; CAGE CLAMP®; 2,50 mm<sup>2</sup>; gray



[www.wago.com/281-530](http://www.wago.com/281-530)



Color:

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

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## Data

### Electrical data

#### Ratings per IEC/EN

Ratings per	IEC/EN 60947-7-1
Nominal voltage (III/3)	400 V
Rated impulse voltage (III/3)	6 kV
Rated current	20 A
Current at conductor cross-section (max.) mm <sup>2</sup>	25 A
Legend (ratings)	(III / 3) ≙ Overvoltage category III / Pollution degree 3

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## Power Loss

Power loss, per pole (potential)	1.596 W
Rated current $I_N$ for specified power loss	20 A
Resistance value for specified, current-dependent power loss	0.001 $\Omega$

## Connection data

Connection points	7
Total number of potentials	4
Number of levels	4

## Connection 1

Connection technology	CAGE CLAMP®
Actuation type	Operating tool
Connectable conductor materials	Copper Aluminum

Connectable conductor materials (note)

### Terminating Aluminum Conductors

WAGO spring clamp terminal blocks are suitable for solid aluminum conductors up to 4 mm<sup>2</sup>/12 AWG if WAGO "Alu-Plus" Contact Paste 249-130 is used for termination.

"Alu-Plus" Contact Paste Advantages:

- Automatically destroys the oxide film during clamping.
- Prevents fresh oxidation at the clamping point.
- Prevents electrolytic corrosion between aluminum and copper conductors (in the same terminal block).
- Provides long-term protection against corrosion.

Using terminal blocks with CAGE CLAMP® Spring Pressure Connection Technology, **aluminum conductors must first be cleaned with a blade** and then immediately be inserted into the clamping units filled with "Alu-Plus" Contact Paste.

It is also possible to apply WAGO "Alu-Plus" **additionally** on the whole surface of the aluminum conductor before termination.

Please note that the nominal currents must be adapted to the reduced conductivity of the aluminum conductors::

2.5 mm<sup>2</sup> = 16 A

4 mm<sup>2</sup> = 22 A

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Nominal cross-section	2.5 mm <sup>2</sup>
Solid conductor	0.08 ... 4 mm <sup>2</sup> / 28 ... 12 AWG
Fine-stranded conductor	0.08 ... 4 mm <sup>2</sup> / 28 ... 12 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches
Wiring direction	Front-entry wiring

### Physical data

Width	6 mm / 0.236 inches
Height	100 mm / 3.937 inches
Depth from upper-edge of DIN-rail	62.5 mm / 2.461 inches

### Mechanical Data

Potential marking	L1 - L2 - L3 - PE
Design	angled
Mounting type	DIN-35 rail
Marking level	Center/side marking

### Material Data

Note (material data)	Information on material specifications can be found here
Color	gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.356 MJ
Weight	23.2 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

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



ETIM 8.0	EC000897
ETIM 7.0	EC000897
PU (SPU)	50 pcs
Packaging type	box
Country of origin	DE
GTIN	4045454017071
Customs tariff number	85369010000

## Environmental Product Compliance

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

### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>CCA</b> DEKRA Certification B.V.	IEC 60947	NTR NL-7454/A1
	<b>CSA</b> CSA Group	C22.2	1505034
	<b>CSA</b> DEKRA Certification B.V.	C22.2 No. 158	1505034
	<b>KEMA/KEUR</b> DEKRA Certification B.V.	EN 60947	71-107288
	<b>UL</b> Underwriters Laboratories Inc.	-	20170731-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>ABS</b> American Bureau of Shipping	-	20-HG1941090-PDA
	<b>BV</b>	EN 60947	07436/F0 BV

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Bureau Veritas S.A.

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

## Required accessories

### End plate

End plate		
<b>Item no.: 281-365</b> End and intermediate plate; 1 mm thick; gray		<a href="http://www.wago.com/281-365">www.wago.com/281-365</a>
<b>Item no.: 281-366</b> End and intermediate plate; 1 mm thick; orange		<a href="http://www.wago.com/281-366">www.wago.com/281-366</a>

## Optional accessories

### Ferrule

Ferrule		
<b>Item no.: 216-106</b> Ferrule; Sleeve for 2.5 mm <sup>2</sup> / AWG 14; uninsulated; electro-tin plated; silver-colored		<a href="http://www.wago.com/216-106">www.wago.com/216-106</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.: 216-206</b> Ferrule; Sleeve for 2.5 mm <sup>2</sup> / AWG 14; insulated; electro-tin plated; blue		<a href="http://www.wago.com/216-206">www.wago.com/216-206</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.: 216-204</b> Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; insulated; electro-tin plated; black		<a href="http://www.wago.com/216-204">www.wago.com/216-204</a>
<b>Item no.: 216-205</b> Ferrule; Sleeve for 2.08 mm <sup>2</sup> / AWG 14; insulated; electro-tin plated; yellow		<a href="http://www.wago.com/216-205">www.wago.com/216-205</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.: 216-241</b> Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white		<a href="http://www.wago.com/216-241">www.wago.com/216-241</a>
<b>Item no.: 216-242</b> Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray		<a href="http://www.wago.com/216-242">www.wago.com/216-242</a>
<b>Item no.: 216-243</b>		

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Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red [www.wago.com/216-243](http://www.wago.com/216-243)

**Item no.: 216-244**

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black [www.wago.com/216-244](http://www.wago.com/216-244)

**Item no.: 216-246**

Ferrule; Sleeve for 2.5 mm<sup>2</sup> / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue [www.wago.com/216-246](http://www.wago.com/216-246)

**Item no.: 216-301**

Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow [www.wago.com/216-301](http://www.wago.com/216-301)

**Item no.: 216-302**

Ferrule; Sleeve for 0.34 mm<sup>2</sup> / 22 AWG; insulated; electro-tin plated; light turquoise [www.wago.com/216-302](http://www.wago.com/216-302)

**Marking accessories**

## Marking strip

**Item no.: 709-196**

Marking strips; for laser printer; translucent [www.wago.com/709-196](http://www.wago.com/709-196)

**Item no.: 709-178**

Marking strips; on reel; 7.5 mm wide; not stretchable; plain; snap-on type; white [www.wago.com/709-178](http://www.wago.com/709-178)

**Item no.: 709-177**

Marking strips; on reel; 7.5 mm wide; not stretchable; plain; snap-on type; translucent [www.wago.com/709-177](http://www.wago.com/709-177)

## Marker

**Item no.: 2009-115/000-002**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow [www.wago.com/2009-115/000-002](http://www.wago.com/2009-115/000-002)

**Item no.: 2009-115/000-007**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray [www.wago.com/2009-115/000-007](http://www.wago.com/2009-115/000-007)

**Item no.: 2009-115/000-017**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; light green [www.wago.com/2009-115/000-017](http://www.wago.com/2009-115/000-017)

**Item no.: 2009-115/000-023**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green [www.wago.com/2009-115/000-023](http://www.wago.com/2009-115/000-023)

**Item no.: 2009-115/000-024**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet [www.wago.com/2009-115/000-024](http://www.wago.com/2009-115/000-024)

**Item no.: 2009-115**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white [www.wago.com/2009-115](http://www.wago.com/2009-115)

**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 [www.wago.com/793-5501/000-007](http://www.wago.com/793-5501/000-007)

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type; gray

**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 [www.wago.com/793-5501/000-012](http://www.wago.com/793-5501/000-012)

**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 [www.wago.com/793-5501/000-017](http://www.wago.com/793-5501/000-017)

**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 [www.wago.com/793-5501/000-023](http://www.wago.com/793-5501/000-023)

**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 [www.wago.com/793-5501/000-024](http://www.wago.com/793-5501/000-024)

**Item no.: 793-501/000-002**

WMB marking card; as card; not stretchable; plain; snap-on type; yellow [www.wago.com/793-501/000-002](http://www.wago.com/793-501/000-002)

**Item no.: 793-501/000-007**

WMB marking card; as card; not stretchable; plain; snap-on type; gray [www.wago.com/793-501/000-007](http://www.wago.com/793-501/000-007)

**Item no.: 793-501/000-017**

WMB marking card; as card; not stretchable; plain; snap-on type; light green [www.wago.com/793-501/000-017](http://www.wago.com/793-501/000-017)

**Item no.: 793-501/000-012**

WMB marking card; as card; not stretchable; plain; snap-on type; orange [www.wago.com/793-501/000-012](http://www.wago.com/793-501/000-012)

**Item no.: 793-501/000-023**

WMB marking card; as card; not stretchable; plain; snap-on type; green [www.wago.com/793-501/000-023](http://www.wago.com/793-501/000-023)

**Item no.: 793-501/000-006**

WMB marking card; as card; not stretchable; plain; snap-on type; blue [www.wago.com/793-501/000-006](http://www.wago.com/793-501/000-006)

**Item no.: 793-501/000-005**

WMB marking card; as card; not stretchable; plain; snap-on type; red [www.wago.com/793-501/000-005](http://www.wago.com/793-501/000-005)

**Item no.: 793-501**

WMB marking card; as card; not stretchable; plain; snap-on type; white [www.wago.com/793-501](http://www.wago.com/793-501)

**Item no.: 793-501/000-024**

WMB marking card; as card; not stretchable; plain; snap-on type; violet [www.wago.com/793-501/000-024](http://www.wago.com/793-501/000-024)

**Item no.: 793-5501/000-005**

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WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; red [www.wago.com/793-5501/000-005](http://www.wago.com/793-5501/000-005)

**Item no.: 793-5501/000-002**  
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; yellow [www.wago.com/793-5501/000-002](http://www.wago.com/793-5501/000-002)

**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 [www.wago.com/793-5501/000-006](http://www.wago.com/793-5501/000-006)

**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 [www.wago.com/793-5501](http://www.wago.com/793-5501)

**Item no.: 2009-115/000-012** [www.wago.com/2009-115/000-012](http://www.wago.com/2009-115/000-012)  
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange

**Item no.: 2009-115/000-006** [www.wago.com/2009-115/000-006](http://www.wago.com/2009-115/000-006)  
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue

#### Group marker carrier

**Item no.: 249-105** [www.wago.com/249-105](http://www.wago.com/249-105)  
Group marker carrier; gray

#### Jumpers

##### Jumper

**Item no.: 210-123** [www.wago.com/210-123](http://www.wago.com/210-123)  
Wire commoning chain; insulated; blue

**Item no.: 210-103** [www.wago.com/210-103](http://www.wago.com/210-103)  
Wire commoning chain; insulated; black

**Item no.: 281-485** [www.wago.com/281-485](http://www.wago.com/281-485)  
Jumper; 5-way; insulated; gray

**Item no.: 281-490** [www.wago.com/281-490](http://www.wago.com/281-490)  
Jumper; 10-way; insulated; gray

**Item no.: 281-492** [www.wago.com/281-492](http://www.wago.com/281-492)  
Jumper; 2-way; insulated; gray

**Item no.: 281-482** [www.wago.com/281-482](http://www.wago.com/281-482)  
Jumper; 2-way; insulated; gray

**Item no.: 281-483** [www.wago.com/281-483](http://www.wago.com/281-483)  
Jumper; 3-way; insulated; gray

**Item no.: 709-110** [www.wago.com/709-110](http://www.wago.com/709-110)  
Wire commoning chain; 2.5 mm<sup>2</sup>; insulated; black

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

**Item no.: 709-112**Wire commoning chain; 2.5 mm<sup>2</sup>; insulated; black[www.wago.com/709-112](http://www.wago.com/709-112)**Item no.: 709-111**Wire commoning chain; 2.5 mm<sup>2</sup>; insulated; black[www.wago.com/709-111](http://www.wago.com/709-111)**Tool**

## Operating tool

**Item no.: 210-657**

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; short; multicoloured

[www.wago.com/210-657](http://www.wago.com/210-657)**Item no.: 210-658**

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; angled; short; multicoloured

[www.wago.com/210-658](http://www.wago.com/210-658)**Item no.: 210-720**

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

[www.wago.com/210-720](http://www.wago.com/210-720)**Testing and measuring**

## Testing accessories

**Item no.: 210-136**

Test plug; 2 mm Ø; with 500 mm cable; red

[www.wago.com/210-136](http://www.wago.com/210-136)**Insulation stop**

## Insulation stop

**Item no.: 281-470**Insulation stop; 0.08 - 0.2 mm<sup>2</sup> "s" (0.14 mm<sup>2</sup> "f-st"); 5 pieces/strip; white[www.wago.com/281-470](http://www.wago.com/281-470)**Item no.: 281-471**Insulation stop; 0.25 - 0.5 mm<sup>2</sup>; 5 pieces/strip; light gray[www.wago.com/281-471](http://www.wago.com/281-471)**Item no.: 281-472**Insulation stop; 0.75 - 1.5 mm<sup>2</sup>; 5 pieces/strip; dark gray[www.wago.com/281-472](http://www.wago.com/281-472)**Mounting**

## Mounting accessories

**Item no.: 209-106**

Mounting carrier; for isolated mounting on DIN 35 rails; gray

[www.wago.com/209-106](http://www.wago.com/209-106)**Item no.: 249-116**

Screwless end stop; 6 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray

[www.wago.com/249-116](http://www.wago.com/249-116)**Carrier rail**

## Mounting accessories

**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

[www.wago.com/210-197](http://www.wago.com/210-197)**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

[www.wago.com/210-198](http://www.wago.com/210-198)**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

[www.wago.com/210-504](http://www.wago.com/210-504)

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<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>
<b>Push-in type wire jumper</b>	
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>

## Downloads

### Documentation

#### Bid Text

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#### Additional Information

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#### CAD/CAE-Data

##### CAE data

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#### Environmental Product Compliance

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Quadruple-deck rail-mounted terminal block; Rail-mounted terminal block for electric motor wiring; 2.5 mm<sup>2</sup>; L1 - L2 - L3 - PE; for DIN-rail 35 x 15 and 35 x 7.5; CAGE CLAMP®; 2,50 mm<sup>2</sup>; gray

#### Installation Notes

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



In addition to rail-mount terminal blocks for electric motor wiring, special versions are also available:

- Version **without** ground contact and only two potentials:

These terminal blocks were specifically designed to support additional functions, such as engine brakes or temperature sensors. Sharing a common profile, this terminal block version can be put next to the appropriate electric motor wiring terminal block without using intermediate plates. That makes the rail assembly easier to understand and wire. This also prevents wiring errors as no conductor entry is unused.

- Version **without** ground contact and with three potentials:

Clearly designated clamping units are the primary advantage to this terminal block design. When using devices with protective insulation, for example, there are no open ground clamping units that could create confusion.

## Commoning

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

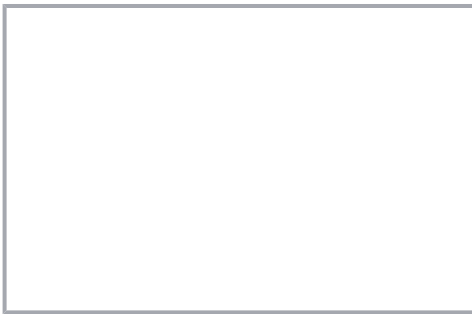


Commoning using comb-style jumper bars.

Push comb-style jumper bars down until fully inserted.

Group marking via marking strips (Item No. 709-177)

#### Testing



Testing with voltage tester.

#### Marking

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



Marking clamping points via WMB Multi Marking System.

Group marking via marking strips (Item No. 709-177)

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