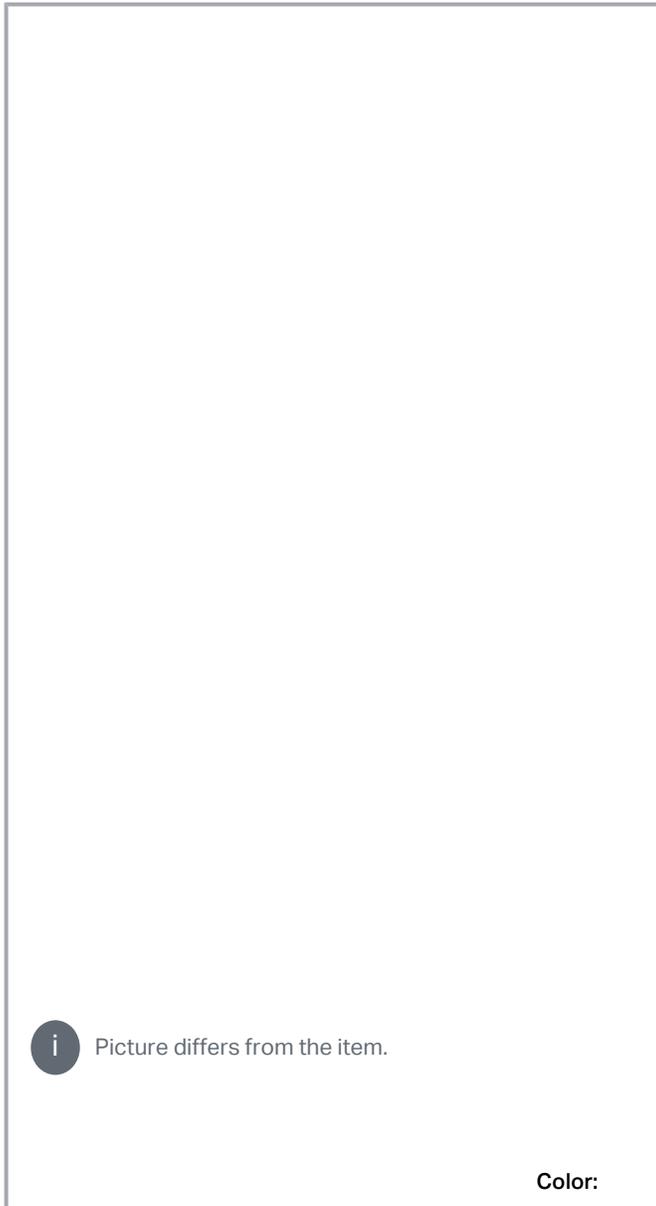


Data sheet | Item number: 283-104

2-conductor through terminal block; 16 mm²; lateral marker slots; for DIN-rail
35 x 15 and 35 x 7.5; CAGE CLAMP®; 16,00 mm²; blue



www.wago.com/283-104



Data

Electrical data

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

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Ratings per IEC/EN

| | |
|-------------------------------|-----------------------------------------------------------|
| Ratings per | IEC/EN 60947-7-1 |
| Nominal voltage (III/3) | 800 V |
| Rated impulse voltage (III/3) | 8 kV |
| Rated current | 76 A |
| Legend (ratings) | (III / 3) ≙ Overvoltage category III / Pollution degree 3 |

Power Loss

| | |
|--------------------------------------------------------------|---------|
| Power loss, per pole (potential) | 2.426 W |
| Rated current I_N for specified power loss | 76 A |
| Resistance value for specified, current-dependent power loss | 0 Ω |

Connection data

| | |
|----------------------------|---|
| Connection points | 2 |
| 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 | 0.2 ... 16 mm ² / 24 ... 6 AWG |
| Fine-stranded conductor | 0.2 ... 16 mm ² / 24 ... 6 AWG |
| Strip length | 16 ... 17 mm / 0.63 ... 0.67 inches |
| Wiring direction | Side-entry wiring |

Physical data

| | |
|-----------------------------------|------------------------|
| Width | 12 mm / 0.472 inches |
| Height | 58 mm / 2.283 inches |
| Depth from upper-edge of DIN-rail | 45.5 mm / 1.791 inches |

Mechanical Data

| | |
|---------------|-----------------|
| Design | horizontal type |
| Mounting type | DIN-35 rail |
| Marking level | Side marking |

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

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Material Data

Note (material data)

Information on material specifications can be found here

| | |
|-----------------------------|------------------|
| Color | blue |
| Material group | I |
| Insulation material | Polyamide (PA66) |
| Flammability class per UL94 | V0 |
| Fire load | 0.428 MJ |
| Weight | 27.4 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) | 50 pcs |
| Packaging type | box |
| Country of origin | IN |
| GTIN | 4044918298360 |
| Customs tariff number | 85369010000 |

Environmental Product Compliance

| | |
|------------------------|-------------------------|
| RoHS Compliance Status | Compliant, No Exemption |
|------------------------|-------------------------|

Approvals / Certificates

General approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|------|---------------------------------|--------------------------|------------------|
| | CCA DEKRA Certification B.V. | EN 60947 | NTR NL 7895 |

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



| | | |
|----------------------------------------------|---------------|---------------|
| CSA DEKRA Certification B.V. | C22.2 No. 158 | 1536072 |
| KEMA/KEUR DEKRA Certification B.V. | EN 60947 | 71- 120777 |
| UL UL International Germany GmbH | UL 1059 | E45172 |

Declarations of conformity and manufacturer's declarations

| Logo | Approval | Additional Approval Text | Certificate name |
|------|-----------------------------------------------------------|--------------------------|------------------|
| | EU-Declaration of Conformity WAGO GmbH & Co. KG | - | - |

Approvals for marine applications

| Logo | Approval | Additional Approval Text | 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 |

Required accessories

End plate

| End plate | |
|----------------------------------------------------------------------------|----------------------------------------------------------------|
| Item no.: 283-301 End and intermediate plate; 4 mm thick; gray | www.wago.com/283-301 |
| Item no.: 283-302 End and intermediate plate; 4 mm thick; orange | www.wago.com/283-302 |

Optional accessories

Ferrule

| Ferrule | |
|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Item no.: 216-108 Ferrule; Sleeve for 6 mm ² / AWG 10; uninsulated; electro-tin plated; silver-colored | www.wago.com/216-108 |
| Item no.: 216-109 Ferrule; Sleeve for 10 mm ² / AWG 8; uninsulated; electro-tin plated | www.wago.com/216-109 |
| Item no.: 216-286 | |

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



Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue

www.wago.com/216-286

Item no.: 216-287

Ferrule; Sleeve for 4 mm² / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray

www.wago.com/216-287

Item no.: 216-288

Ferrule; Sleeve for 6 mm² / AWG 10; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; yellow

www.wago.com/216-288

Item no.: 216-289

Ferrule; Sleeve for 10 mm² / AWG 8; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

www.wago.com/216-289

Marking accessories

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

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

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

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

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

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

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 type; gray

www.wago.com/793-5501/000-007

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

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

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

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

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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

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

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

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

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

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

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

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

Item no.: 793-501

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

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

Item no.: 793-5501/000-005

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

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

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

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

www.wago.com/793-5501

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

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type; white

Item no.: 2009-115/000-012

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

www.wago.com/2009-115/000-012

Item no.: 2009-115/000-006

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

www.wago.com/2009-115/000-006

Group marker carrier

Item no.: 249-105

Group marker carrier; gray

www.wago.com/249-105

Mounting

Cover carrier

Item no.: 709-168

Cover carrier; Type 2; incl. fixing/retaining screws and knurled nut; suitable for 283 to 285 Series rail-mounted terminal blocks; suitable for 279 to 281 Series double- and triple-deck terminal blocks; suitable for 780 to 785, 775, 776 and 777 Series TOPJOB® rail-mounted terminal blocks; suitable for 280 Series sensor and actuator terminal blocks; suitable for 282 Series disconnect/test terminal blocks for transformer circuits; gray

www.wago.com/709-168

Cover

Item no.: 709-154

Cover; Type 2; suitable for cover carrier, type 2; 1 m long; transparent

www.wago.com/709-154

Mounting accessories

Item no.: 209-106

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

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

Testing and measuring

Testing accessories

Item no.: 283-404

Test plug adapter; 11.6 mm wide; for 4 mm Ø test plugs; gray

www.wago.com/283-404

Protective warning marker

Cover

Item no.: 283-405

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

www.wago.com/283-405

Tool

Operating tool

Item no.: 210-721

Operating tool; Blade: 5.5 x 0.8 mm; with a partially insulated shaft; multicoloured

www.wago.com/210-721

Carrier rail

Mounting accessories

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

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| | |
|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| 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 |
| 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 |
| 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 |
| 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 | www.wago.com/210-505 |
| 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 | www.wago.com/210-506 |
| 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 | www.wago.com/210-508 |
| 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 | www.wago.com/210-113 |
| 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 | www.wago.com/210-118 |
| 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 | www.wago.com/210-112 |
| 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 | www.wago.com/210-114 |
| 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 | www.wago.com/210-115 |
| 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 | www.wago.com/210-196 |
| End plate | |
| End plate | |
| Item no.: 283-333 Step-down cover plate; 1 mm thick; gray | www.wago.com/283-333 |
| Item no.: 283-322 Separator plate; 2 mm thick; oversized; orange | www.wago.com/283-322 |
| Item no.: 283-335 Step-down cover plate; 1 mm thick; orange | www.wago.com/283-335 |
| Item no.: 283-332 Separator plate; 2 mm thick; oversized; gray | www.wago.com/283-332 |
| Jumpers | |

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



Jumper

| | |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Item no.: 283-414 Step-down jumper; from 283 to 281 series; insulated; gray | www.wago.com/283-414 |
| Item no.: 283-422 Jumper; insulated; yellow-green | www.wago.com/283-422 |
| Item no.: 283-402 Jumper; insulated; gray | www.wago.com/283-402 |
| Item no.: 283-409 Jumper; insulated; gray | www.wago.com/283-409 |

Downloads

Documentation

Bid Text

| | | | |
|------------------------|--------------|----------------|----------|
| 283-104 X81 - Datei | 2019 年2月19 日 | xml 3.3 kB | Download |
| 283-104 doc - Datei | 2017 年6月12 日 | doc 24.1 kB | Download |

Additional Information

| | | | |
|--|--|---------------|----------|
| | | pdf 2.2 MB | Download |
|--|--|---------------|----------|

CAD/CAE-Data

CAD data

| | | |
|----------------------|-----|----------|
| 2D/3D Models 283-104 | URL | Download |
|----------------------|-----|----------|

CAE data

| | | |
|------------------------|-----|----------|
| WSCAD Universe 283-104 | URL | Download |
|------------------------|-----|----------|

| | | |
|----------------------|-----|----------|
| ZUKEN Portal 283-104 | URL | Download |
|----------------------|-----|----------|

| | | |
|---------------------------|-----|----------|
| EPLAN Data Portal 283-104 | URL | Download |
|---------------------------|-----|----------|

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

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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 283-104

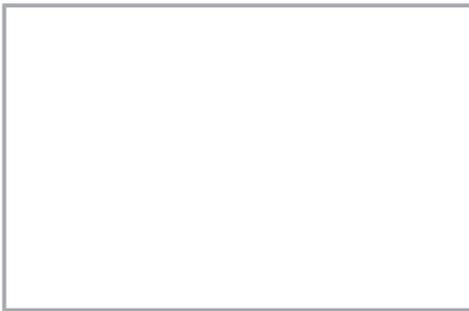
[URL](#)

[Download](#)

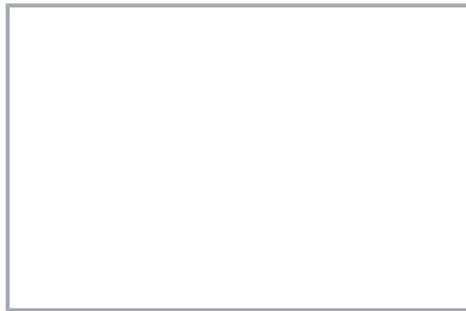
2-conductor through terminal block; 16 mm²; lateral marker slots; for DIN-rail 35 x 15 and 35 x 7.5; CAGE CLAMP®; 16,00 mm²; blue

Installation Notes

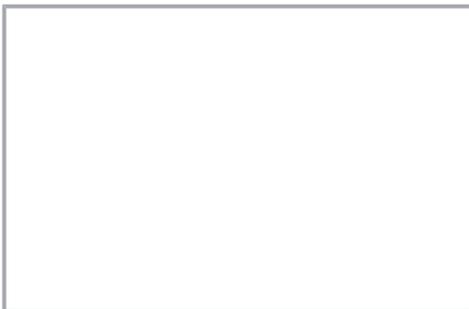
Installation



Snapping side-entry rail-mount terminal blocks onto the DIN-rail.



Quick assembly keys prevent reverse mounting.



Removing a terminal block from the assembly.

Conductor termination

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



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.

Commoning



Commoning using an adjacent jumper (280-402).

Push jumper down until fully inserted.

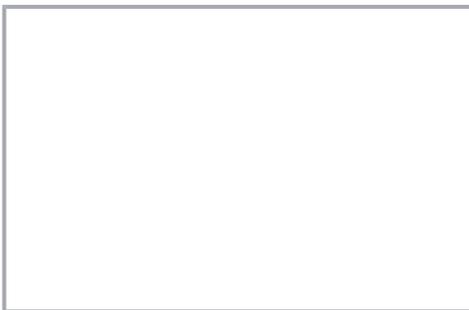
Testing

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



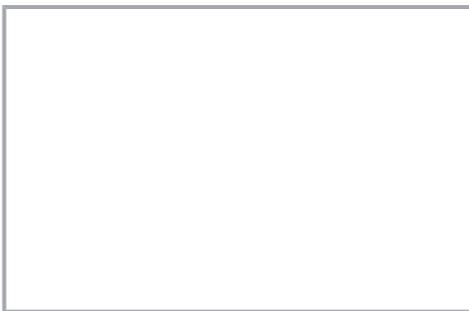
Testing with a test plug.

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



When operating the handles beyond the locked position, the ratchet allows the tool to open and be removed from the terminal block.

Marking



Labeling via WMB Multi Marking System.

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