

Data sheet | Item number: 285-154

2-conductor through terminal block; 50 mm²; lateral marker slots; only for
DIN 35 x 15 rail; POWER CAGE CLAMP; 50,00 mm²; blue



www.wago.com/285-154



Color:

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) | 1000 V |
| Rated impulse voltage (III/3) | 8 kV |
| Rated current | 150 A |
| Legend (ratings) | (III / 3) ≙ Overvoltage category III / Pollution degree 3 |

Ratings per UL

| | |
|--------------------------------|---------|
| Approvals per | UL 1059 |
| Rated voltage UL (Use Group B) | 600 V |
| Rated current UL (Use Group B) | 150 A |
| Rated voltage UL (Use Group C) | 600 V |
| Rated current UL (Use Group C) | 150 A |

Ratings per CSA

| | |
|---------------------------------|-----------------|
| Approvals per | CSA 22.2 No 158 |
| Rated voltage CSA (Use Group B) | 600 V |
| Rated current CSA (Use Group B) | 150 A |
| Rated voltage CSA (Use Group C) | 600 V |
| Rated current CSA (Use Group D) | 150 A |

Power Loss

| | |
|--|------------|
| Power loss, per pole (potential) | 4.725 W |
| Rated current I_N for specified power loss | 150 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 |
| Number of jumper slots | 2 |

Connection 1

| | |
|-----------------------|------------------|
| Connection technology | POWER CAGE CLAMP |
|-----------------------|------------------|

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



| | |
|---|---|
| Actuation type | T-wrench; 8 mm |
| Connectable conductor materials | Copper |
| Nominal cross-section | 50 mm ² |
| Solid conductor | 10 ... 50 mm ² / 8 ... 1/0 AWG |
| Stranded conductor | 10 ... 50 mm ² / 8 ... 1/0 AWG |
| Fine-stranded conductor | 10 ... 70 mm ² / 8 ... 2/0 AWG |
| Fine-stranded conductor; with insulated ferrule | 10 ... 50 mm ² / 8 ... 1/0 AWG |
| Fine-stranded conductor; with uninsulated ferrule | 10 ... 50 mm ² / 8 ... 1/0 AWG |
| Strip length | 30 mm / 1.18 inches |
| Wiring direction | Side-entry wiring |

Physical data

| | |
|-----------------------------------|----------------------|
| Width | 20 mm / 0.787 inches |
| Height | 94 mm / 3.701 inches |
| Depth from upper-edge of DIN-rail | 87 mm / 3.425 inches |

Mechanical Data

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|-----------------|------------------------------------|
| Mounting type | DIN-rail 35 x 15 |
| Mounting (note) | only suitable for DIN 35 x 15 rail |
| Marking level | Side marking |

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 | 2.168 MJ |
| Weight | 159.1 g |

Environmental requirements

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

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



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) | 5 pcs |
| Packaging type | box |
| Country of origin | PL |
| GTIN | 4045454507428 |
| 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-7707 |
| | CSA DEKRA Certification B.V. | C22.2 No. 158 | 154112 |
| | KEMA/KEUR DEKRA Certification B.V. | EN 60947 | 71-105562 |
| | UL Underwriters Laboratories Inc. | 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 | - | - |
| | UK-Declaration of Conformity WAGO GmbH & Co. KG | - | - |

Approvals for marine applications

| Logo | Approval | Additional Approval Text | Certificate name |
|------|----------|--------------------------|------------------|
|------|----------|--------------------------|------------------|

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| | | |
|---|----------|--------------------------|
| ABS American Bureau of Shipping | EN 60947 | 20- HG1941090- PDA |
| DNV GL Det Norske Veritas, Germanischer Lloyd | - | TAE00001V2 |

Optional accessories

Jumpers

Jumper

| | |
|---|--|
| Item no.: 285-450 Jumper; insulated; gray | www.wago.com/285-450 |
|---|--|

Current and Voltage Taps

Current and voltage tap

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|---|--|
| Item no.: 855-501/150-000 Current and voltage tap up to 50 mm ² ; Primary rated current: 150 A; Secondary rated current: 1 A; Rated power: 0.2 VA; Accuracy class: 0.5; fused | www.wago.com/855-501/150-000 |
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Mounting

Mounting accessories

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| Item no.: 249-197 Screwless end stop; 14 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray | www.wago.com/249-197 |
|---|--|

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|---|--|
| Item no.: 285-448 Fixing element; for 50 mm ² high-current terminal blocks; orange | www.wago.com/285-448 |
|---|--|

Voltage tap

Power tap

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|---|--|
| Item no.: 285-447 Power tap; for 50 mm ² high-current tbs; Module width 16 mm; 6,00 mm ² ; gray | www.wago.com/285-447 |
|---|--|

Cover

Cover

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| Item no.: 285-441 Finger guard; touchproof cover protects unused conductor entries and jumper slots; for 50 mm ² high-current tbs; yellow | www.wago.com/285-441 |
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Ferrule

Ferrule

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

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|---|--|
| Item no.: 216-110 Ferrule; Sleeve for 16 mm ² / AWG 6; uninsulated; electro-tin plated; brown metallic | www.wago.com/216-110 |
|---|--|

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|--|--|
| Item no.: 216-209 Ferrule; Sleeve for 10 mm ² / AWG 8; insulated; electro-tin plated; red | www.wago.com/216-209 |
|--|--|

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**Item no.: 216-210**

Ferrule; Sleeve for 16 mm² / AWG 6; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue www.wago.com/216-210

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

Item no.: 216-414

Ferrule; Sleeve for 35 mm² / AWG 2; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored www.wago.com/216-414

Item no.: 216-425

Ferrule; Sleeve for 50 mm² / AWG 1; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92 www.wago.com/216-425

Item no.: 216-424

Ferrule; Sleeve for 35 mm² / AWG 2; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored www.wago.com/216-424

Item no.: 216-435

Ferrule; Sleeve for 50 mm² / AWG 1; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92 www.wago.com/216-435

Marking accessories

Marker carrier

Item no.: 285-442

Adaptor; gray www.wago.com/285-442

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

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

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| | |
|--|--|
| 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.: 793-5501/000-014 WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; brown | www.wago.com/793-5501/000-014 |
| 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 |
| 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 |

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

**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 type; white

www.wago.com/793-5501**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**Item no.: 2009-115/000-005**

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

www.wago.com/2009-115/000-005**Group marker carrier****Item no.: 249-105**

Group marker carrier; gray

www.wago.com/249-105**Tool****Operating tool****Item no.: 285-172**

Allen wrench; with a partially insulated shaft; green

www.wago.com/285-172**Item no.: 285-173**

Allen wrench; with a partially insulated shaft; with anti-rotation protection; green

www.wago.com/285-173**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**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.: 210-506**

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

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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.: 210-114

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

Protective warning marker

Cover

Item no.: 285-440

Protective warning marker; with high-voltage symbol, black; yellow www.wago.com/285-440

Item no.: 285-449

Protective warning marker; yellow www.wago.com/285-449

Downloads**Documentation****Bid Text**

| | | | |
|------------------------|-------------|----------------|----------|
| 285-154 X81 - Datei | 2019 年2月19日 | xml 3.3 kB | Download |
| 285-154 doc - Datei | 2018 年1月4日 | doc 24.1 kB | Download |

Additional Information

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CAD/CAE-Data**CAD data**

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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 285-154

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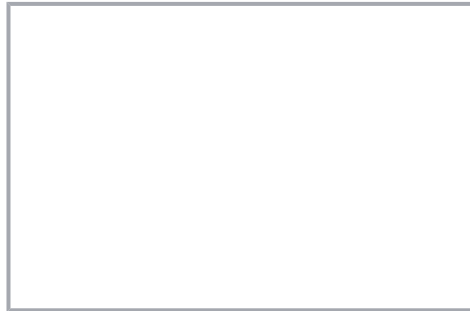
2-conductor through terminal block; 50 mm²; lateral marker slots; only for DIN 35 x 15 rail; POWER CAGE CLAMP; 50,00 mm²; blue

Installation Notes

Installation



Snapping a terminal block onto DIN-rail (to the left or to the right).



Removing a terminal block from the assembly (to the left or to the right).

Conductor termination



For the optimal clamping force:

- Bend conductor
- Cut conductor to length (conductor end must be straight)
- Strip conductor



Always observe the on-unit printed strip length guide!

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



Conductor termination – step 1:

Rotate the T-wrench counter-clockwise to the stop. Next, push in the orange locking tab. The clamp is locked open for hands-free wiring.



Conductor termination – step 2:

Insert a stripped conductor into the clamping unit until it hits the backstop. Hold in this position.



Conductor termination – step 3:

A short counter-clockwise rotation releases the tab. When unlocked, the T-wrench rotates clockwise, securely clamping the conductor.

Commoning

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



Commoning with an adjacent jumper: insert the jumper above the conductor entry hole – prior to conductor termination. The nominal cross-section remains unchanged.



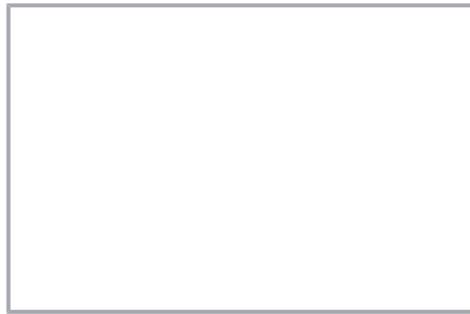
Removing jumper via operating tool.

Cover



Protective warning marker may indicate:

Notice: Power is still on even after switching off the main switch!

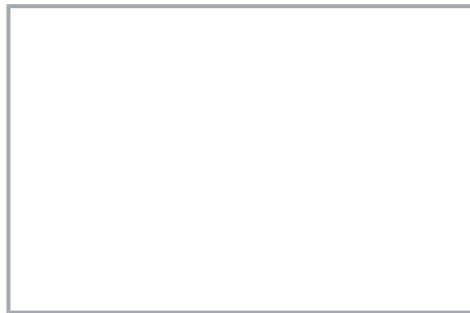


Yellow, detachable finger guards provide touch-proof safety by shielding jumper contact slots and/or unused conductor entries.

Power tap



Easily and consistently tap directly into the power supply. Insert the unwired tap before opening the clamping unit.



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

Security



Risk of Injury!

Do not insert fingers in the conductor entry!

Testing



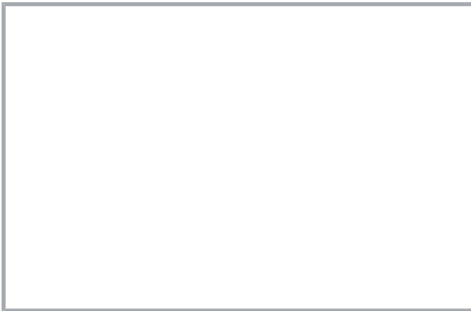
Testing via touch-proof 4 mm Ø test plugs (not available from WAGO, but offered by industry suppliers such as, Multi-Contact Deutschland GmbH).



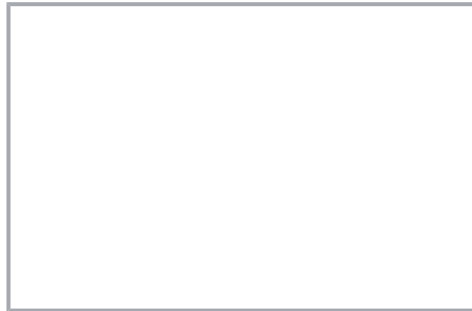
Testing

Voltage measurements can be performed, e.g., using a 2-pole voltage tester (206-707).

Marking



WMB markers or self-adhesive, printable marking strips can be accommodated on 35, 50 and 95 mm² high-current terminal blocks.



Marker carrier (285-442) for marking strips (2009-110) or 2 WMB markers for 285-13x, 285-15x and 285-19x Terminal Blocks

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