

Data sheet | Item number: 285-935

2-conductor through terminal block; 35 mm²; suitable for Ex e II applications;
lateral marker slots; only for DIN 35 x 15 rail; POWER CAGE CLAMP; 35,00
mm²; light gray

www.wago.com/285-935



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 |
|-------------|------------------|

Ratings per UL

| | |
|--------------------------------|---------|
| Approvals per | UL 1059 |
| Rated voltage UL (Use Group B) | 600 V |
| Rated current UL (Use Group B) | 115 A |
| Rated voltage UL (Use Group C) | 600 V |
| Rated current UL (Use Group C) | 115 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) | 115 A |
| Rated voltage CSA (Use Group D) | 600 V |
| Rated current CSA (Use Group D) | 115 A |

Ex information

| | |
|-------------------------------------|---|
| Reference hazardous areas | See "Downloads – Documentation – Additional Information: Technical Section; Technical Explications" |
| Ratings per | ATEX: PTB 98 ATEX 3134 U (Ex eb IIC Gb) |
| Rated voltage EN (Ex e II) | 880 V |
| Rated current (Ex e II) | 101 A |
| Rated current (Ex e II) with jumper | 75 A |

Power Loss

| | |
|--|------------|
| Power loss, per pole (potential) | 2.652 W |
| Rated current I_N for specified power loss | 101 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 |

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



| | |
|------------------------|---|
| Number of jumper slots | 2 |
|------------------------|---|

Connection 1

| | |
|---|--|
| Connection technology | POWER CAGE CLAMP |
| Actuation type | Operating tool |
| Connectable conductor materials | Copper |
| Nominal cross-section | 35 mm ² |
| Solid conductor | 6 ... 35 mm ² / 8 ... 2 AWG |
| Stranded conductor | 6 ... 35 mm ² / 8 ... 2 AWG |
| Fine-stranded conductor | 6 ... 35 mm ² / 8 ... 2 AWG |
| Fine-stranded conductor; with insulated ferrule | 6 ... 35 mm ² / 8 ... 2 AWG |
| Fine-stranded conductor; with uninsulated ferrule | 6 ... 35 mm ² / 8 ... 2 AWG |
| Strip length | 25 mm / 0.98 inches |
| Wiring direction | Side-entry wiring |

Physical data

| | |
|-----------------------------------|----------------------|
| Width | 16 mm / 0.63 inches |
| Height | 86 mm / 3.386 inches |
| Depth from upper-edge of DIN-rail | 63 mm / 2.48 inches |

Mechanical Data

| | |
|-----------------|------------------------------------|
| 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 | light gray |
| Material group | I |
| Insulation material | Polyamide (PA66) |
| Flammability class per UL94 | V0 |
| Fire load | 0.687 MJ |
| Weight | 79.3 g |

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



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) | 15 pcs |
| Packaging type | box |
| Country of origin | PL |
| GTIN | 4055143418539 |
| 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 |
| | UL Underwriters Laboratories Inc. | UL 1059 | E45172 |

Declarations of conformity and manufacturer's declarations

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

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Approvals for hazardous areas

| Logo | Approval | Additional Approval Text | Certificate name |
|------|---|--------------------------|--|
| | AEx Underwriters Laboratories Inc. | - | E185892 (AEx eb II C resp. Ex eb II C) |
| | ATEX Physikalisch Technische Bundesanstalt | EN 60079-0 | PTB 98 ATEX 3134 U (II 2 G Ex eb IIC Gb or I M 2 Ex eb I Mb) |
| | CCC CNEX | GB/T 3836.3 | 2020312313000177 (Ex eb IIC Gb, Ex eb I Mb) |
| | EAC Brjansker Zertifizierungsstelle | TP TC 012/2011 | RU C-DE.AM02.B. 00127/19 (Ex e IIC Gb U) |
| | IECEX Physikalisch Technische Bundesanstalt | IEC 60079-0 | IECEX PTB 16.0001U (Ex eb IIC Gb or Ex eb I Mb) |

Optional accessories

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

Voltage tap

Power tap

Item no.: 283-407Power tap; with 500 mm cable; for 16 mm² (283/783 Series) and 35 mm²; graywww.wago.com/283-407**Item no.: 285-427**Power tap; for 35 mm² high-current tbs; Module width 8 mm; 6,00 mm²; graywww.wago.com/285-427

Jumpers

Jumper

Item no.: 285-435

Jumper; insulated; gray

www.wago.com/285-435

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

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

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| | |
|---|--|
| 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.: 210-118 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.: 210-114 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 |
| Marking accessories | |
| Marking strip | |
| Item no.: 2009-110 Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white | www.wago.com/2009-110 |
| 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 |
| 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 | www.wago.com/793-5501/000-012 |

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



type; orange

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

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

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

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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

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

Mounting

Mounting accessories

Item no.: 249-117

Screwless end stop; 10 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray www.wago.com/249-117

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

Cover

Cover

Item no.: 285-421

Finger guard; touchproof cover protects unused conductor entries; for 35 mm² high-current tbs; yellow www.wago.com/285-421

Ferrule

Ferrule

Item no.: 216-413

Ferrule; Sleeve for 25 mm² / AWG 4; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored www.wago.com/216-413

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

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

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Protective warning marker

Cover

Item no.: 285-420

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

www.wago.com/285-420

Downloads

Documentation

Bid Text

| | | | |
|------------------------|-------------|---------------|----------|
| 285-935 X81 - Datei | 2019 年2月19日 | xml 3.3 kB | Download |
|------------------------|-------------|---------------|----------|

| | | | |
|------------------------|------------|----------------|----------|
| 285-935 doc - Datei | 2018 年1月4日 | doc 24.1 kB | Download |
|------------------------|------------|----------------|----------|

Additional Information

| | | | |
|--|--|---------------|----------|
| | | pdf 2.3 MB | Download |
|--|--|---------------|----------|

CAD/CAE-Data

CAE data

| | | | |
|---------------------------|--|-----|----------|
| EPLAN Data Portal 285-935 | | URL | Download |
|---------------------------|--|-----|----------|

Environmental Product Compliance

Compliance Search

| | | | |
|---|--|-----|----------|
| Environmental Product Compliance 285-935 2-conductor through terminal block; 35 mm ² ; suitable for Ex e II applications; lateral marker slots; only for DIN 35 x 15 rail; POWER CAGE CLAMP; 35,00 mm ² ; light gray | | URL | Download |
|---|--|-----|----------|

Installation Notes

Installation

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



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



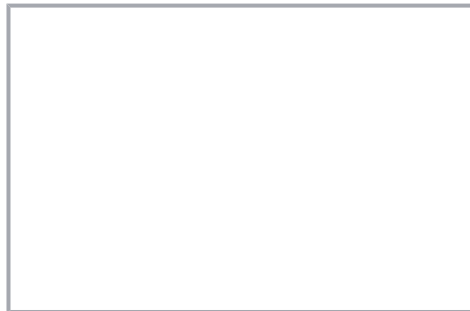
Removing a terminal block from the assembly (to the left or to the right).

Conductor termination



Conductor termination – step 1:

Rotate the operating tool (5.5 mm blade width) counter-clockwise. 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.

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



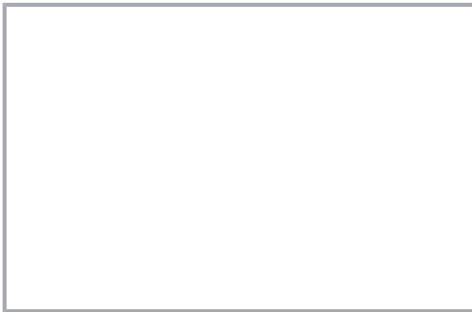
Conductor termination – step 3:

A short counter-clockwise rotation closes the clamp, securing the conductor . When unlocked, allow the operating tool to rotate clockwise to securely terminate the conductor.



Side-entry wiring means that even larger conductors, which have limited flexibility, can be easily connected.

Commoning



Commoning adjacent terminal blocks using a centrally positioned push-in jumper.



Slide the marking strip laterally to remove the jumper.

Power tap

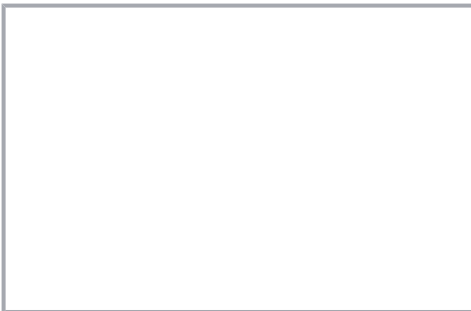
Subject to changes. Please also observe the further product documentation!



The power tap is inserted into the jumper contact slot. It can be fitted with a strain relief plate.



Power tap inserted in a jumper contact slot

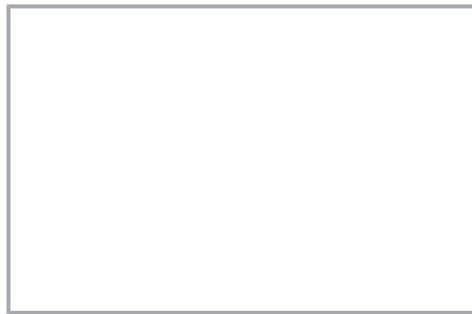


Always push voltage tap (283-407) down into the terminal block until fully inserted!

Testing



Testing



Testing with test plug adapter (283-404).

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

Marking

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



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

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