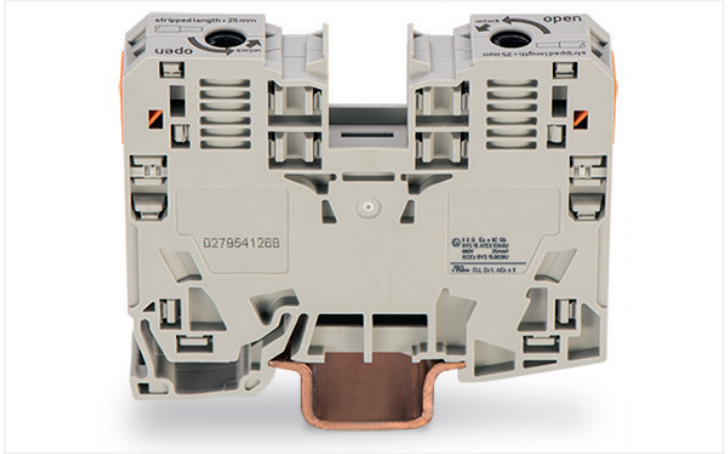
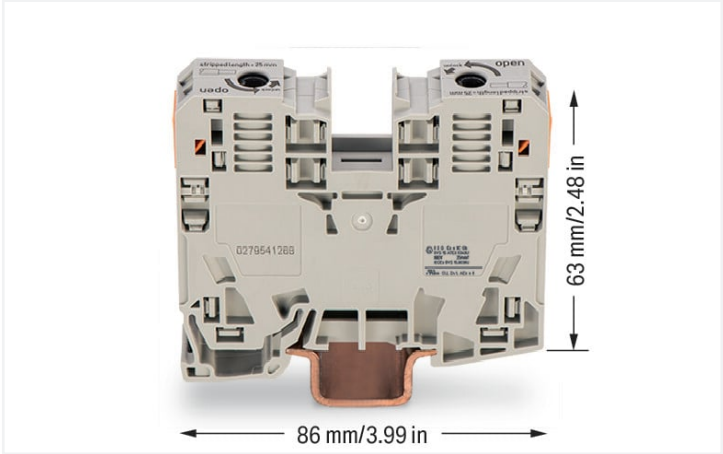


**Data Sheet | Item Number: 285-935**  
2-conductor through terminal block; 35 mm²; suitable for Ex e II applications; lateral marker slots; only for DIN 35 x 15 rail; POWER CAGE CLAMP; 35,00 mm²; light gray  
<https://www.wago.com/285-935>



Color: ■ light gray

**Electrical data**

| Ratings per          | IEC/EN 60947-7-1 |     |    |
|----------------------|------------------|-----|----|
| Overvoltage category | III              | III | II |
| Pollution degree     | 3                | 2   | 2  |
| Nominal voltage      | -                | -   | -  |
| Rated surge voltage  | -                | -   | -  |
| Rated current        | -                | -   | -  |

| Approvals per | UL 1059 |       |   |
|---------------|---------|-------|---|
| Use group     | B       | C     | D |
| Rated voltage | 600 V   | 600 V | - |
| Rated current | 115 A   | 115 A | - |

| Approvals per | CSA 22.2 No 158 |   |       |
|---------------|-----------------|---|-------|
| Use group     | B               | C | D     |
| Rated voltage | 600 V           | - | 600 V |
| Rated current | 115 A           | - | 115 A |

| Ex information                      |                                                                                                     |
|-------------------------------------|-----------------------------------------------------------------------------------------------------|
| Reference hazardous areas           | See "Downloads – Documentation – Additional Information: Technical Section; Technical Explanations" |
| 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)                             | 2.6523 W  |
| Rated current I <sub>N</sub> for specified power loss        | 101 A     |
| Resistance value for specified, current-dependent power loss | 0.00026 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           |
| Actuation type                  | Operating tool             |
| Connectable conductor materials | Copper                     |
| Nominal cross-section           | 35 mm²                     |
| Solid conductor                 | 6 ... 35 mm² / 8 ... 2 AWG |
| Stranded conductor              | 6 ... 35 mm² / 8 ... 2 AWG |
| Fine-stranded conductor         | 6 ... 35 mm² / 8 ... 2 AWG |



| Connection 1                                      |                            |
|---------------------------------------------------|----------------------------|
| Fine-stranded conductor; with insulated ferrule   | 6 ... 35 mm² / 8 ... 2 AWG |
| Fine-stranded conductor; with uninsulated ferrule | 6 ... 35 mm² / 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)        | <a href="https://www.wago.com/us/material-specifications">Information on material specifications can be found here</a> |
| Color                       | light gray                                                                                                             |
| Material group              | I                                                                                                                      |
| Insulation material         | Polyamide (PA66)                                                                                                       |
| Flammability class per UL94 | V0                                                                                                                     |
| Fire load                   | 0.687 MJ                                                                                                               |
| Weight                      | 79.3 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)              | 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                       |               |                  | Declarations of conformity and manufacturer's declarations |          |                  |
|-----------------------------------------|---------------|------------------|------------------------------------------------------------|----------|------------------|
|                                         |               |                  |                                                            |          |                  |
| Approval                                | Standard      | Certificate Name | Approval                                                   | Standard | Certificate Name |
| CCA<br>DEKRA Certification B.V.         | EN 60947      | NTR NL-7707      | ATEX-Attestation of Con-<br>formity<br>WAGO GmbH & Co. KG  | -        | -                |
| CSA<br>DEKRA Certification B.V.         | C22.2 No. 158 | 154112           | EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -        | -                |
| UL<br>Underwriters Laboratories<br>Inc. | UL 1059       | E45172           | UK-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -        | -                |

Approvals for hazardous areas

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

Downloads

| Environmental Product Compliance            |  |
|---------------------------------------------|--|
| Compliance Search                           |  |
| Environmental Product<br>Compliance 285-935 |  |



| Documentation          |                   |                 |            |
|------------------------|-------------------|-----------------|------------|
| Additional Information |                   | Bid Text        |            |
| Technical Section      | pdf<br>2240.62 KB | 285-935         | 19.02.2019 |
|                        |                   | xml<br>3.22 KB  |            |
|                        |                   | 285-935         | 04.01.2018 |
|                        |                   | doc<br>23.50 KB |            |

| CAD/CAE-Data                 |  |
|------------------------------|--|
| CAE data                     |  |
| EPLAN Data Portal<br>285-935 |  |

| 1 Compatible Products    |
|--------------------------|
| 1.1 Optional Accessories |
| 1.1.1 Cover              |
| 1.1.1.1 Cover            |



[Item No.: 285-421](#)  
Finger guard; touchproof cover protects unused conductor entries; for 35 mm² high-current tbs; yellow

| 1.1.2 DIN-rail                                                                                                                                 |                                                                                                                                                       |                                                                                                                                           |                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.1.2.1 Mounting accessories                                                                                                                   |                                                                                                                                                       |                                                                                                                                           |                                                                                                                                                         |
|                                                                                                                                                |                                                                                                                                                       |                                                                                                                                           |                                                                                                                                                         |
| <a href="#">Item No.: 210-198</a><br>Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored | <a href="#">Item No.: 210-508</a><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715; silver-colored | <a href="#">Item No.: 210-197</a><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored | <a href="#">Item No.: 210-506</a><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715; silver-colored |
|                                                                                                                                                |                                                                                                                                                       |                                                                                                                                           |                                                                                                                                                         |
| <a href="#">Item No.: 210-114</a><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored    | <a href="#">Item No.: 210-118</a><br>Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored         |                                                                                                                                           |                                                                                                                                                         |



|                                                                                                                                                                                                    |  |                                                                                                                                                                                                    |  |                                                                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.1.3 Ferrule                                                                                                                                                                                      |  |                                                                                                                                                                                                    |  |                                                                                                                                                               |
| 1.1.3.1 Ferrule                                                                                                                                                                                    |  |                                                                                                                                                                                                    |  |                                                                                                                                                               |
|                                                                                                                   |  |                                                                                                                   |  |                                                                                                                                                               |
| <b>Item No.: 216-413</b><br>Ferrule; Sleeve for 25 mm² / AWG 4; unin-<br>sulated; electro-tin plated; electrolytic<br>copper; gastight crimped; acc. to DIN<br>46228, Part 1/08.92; silver-colored |  | <b>Item No.: 216-414</b><br>Ferrule; Sleeve for 35 mm² / AWG 2; unin-<br>sulated; electro-tin plated; electrolytic<br>copper; gastight crimped; acc. to DIN<br>46228, Part 1/08.92; silver-colored |  |                                                                                                                                                               |
| 1.1.4 Installation                                                                                                                                                                                 |  |                                                                                                                                                                                                    |  |                                                                                                                                                               |
| 1.1.4.1 Mounting accessories                                                                                                                                                                       |  |                                                                                                                                                                                                    |  |                                                                                                                                                               |
|                                                                                                                   |  |                                                                                                                   |  |                                                                                                                                                               |
| <b>Item No.: 249-117</b><br>Screwless end stop; 10 mm wide; for DIN-<br>rail 35 x 15 and 35 x 7.5; gray                                                                                            |  | <b>Item No.: 249-197</b><br>Screwless end stop; 14 mm wide; for DIN-<br>rail 35 x 15 and 35 x 7.5; gray                                                                                            |  |                                                                                                                                                               |
| 1.1.5 Jumper                                                                                                                                                                                       |  |                                                                                                                                                                                                    |  |                                                                                                                                                               |
| 1.1.5.1 Jumper                                                                                                                                                                                     |  |                                                                                                                                                                                                    |  |                                                                                                                                                               |
|                                                                                                                  |  |                                                                                                                                                                                                    |  |                                                                                                                                                               |
| <b>Item No.: 285-435</b><br>Jumper; insulated; gray                                                                                                                                                |  |                                                                                                                                                                                                    |  |                                                                                                                                                               |
| 1.1.6 Marking                                                                                                                                                                                      |  |                                                                                                                                                                                                    |  |                                                                                                                                                               |
| 1.1.6.1 Group marker carrier                                                                                                                                                                       |  |                                                                                                                                                                                                    |  |                                                                                                                                                               |
|                                                                                                                 |  |                                                                                                                                                                                                    |  |                                                                                                                                                               |
| <b>Item No.: 249-105</b><br>Group marker carrier; gray                                                                                                                                             |  |                                                                                                                                                                                                    |  |                                                                                                                                                               |
| 1.1.6.2 Marker                                                                                                                                                                                     |  |                                                                                                                                                                                                    |  |                                                                                                                                                               |
|                                                                                                                 |  |                                                                                                                 |  |                                                                           |
| <b>Item No.: 793-5501/000-006</b><br>WMB marking card; as card; for terminal<br>block width 5 - 17.5 mm; stretchable 5 -<br>5.2 mm; plain; snap-on type; blue                                      |  | <b>Item No.: 793-5501/000-014</b><br>WMB marking card; as card; for terminal<br>block width 5 - 17.5 mm; stretchable 5 -<br>5.2 mm; plain; snap-on type; brown                                     |  | <b>Item No.: 793-5501/000-007</b><br>WMB marking card; as card; for terminal<br>block width 5 - 17.5 mm; stretchable 5 -<br>5.2 mm; plain; snap-on type; gray |
|                                                                                                                 |  |                                                                                                                 |  |                                                                           |
| <b>Item No.: 793-5501/000-017</b><br>WMB marking card; as card; for terminal<br>block width 5 - 17.5 mm; stretchable 5 -<br>5.2 mm; plain; snap-on type; light green                               |  | <b>Item No.: 793-5501/000-012</b><br>WMB marking card; as card; for terminal<br>block width 5 - 17.5 mm; stretchable 5 -<br>5.2 mm; plain; snap-on type; orange                                    |  | <b>Item No.: 793-5501/000-005</b><br>WMB marking card; as card; for terminal<br>block width 5 - 17.5 mm; stretchable 5 -<br>5.2 mm; plain; snap-on type; red  |
|                                                                                                                 |  |                                                                                                                 |  |                                                                           |
| <b>Item No.: 793-5501</b><br>WMB marking card; as card; for terminal<br>block width 5 - 17.5 mm; stretchable 5 -<br>5.2 mm; plain; snap-on type; white                                             |  | <b>Item No.: 793-5501/000-002</b><br>WMB marking card; as card; for terminal<br>block width 5 - 17.5 mm; stretchable 5 -<br>5.2 mm; plain; snap-on type; yellow                                    |  | <b>Item No.: 793-501/000-006</b><br>WMB marking card; as card; not stretcha-<br>ble; plain; snap-on type; blue                                                |
|                                                                                                                                                                                                    |  |                                                                                                                                                                                                    |  | <b>Item No.: 793-501/000-007</b><br>WMB marking card; as card; not stretcha-<br>ble; plain; snap-on type; gray                                                |



1.1.6.2 Marker



**Item No.: 793-501/000-023**  
WMB marking card; as card; not stretchable; plain; snap-on type; green



**Item No.: 793-501/000-017**  
WMB marking card; as card; not stretchable; plain; snap-on type; light green



**Item No.: 793-501/000-012**  
WMB marking card; as card; not stretchable; plain; snap-on type; orange



**Item No.: 793-501/000-005**  
WMB marking card; as card; not stretchable; plain; snap-on type; red



**Item No.: 793-501/000-024**  
WMB marking card; as card; not stretchable; plain; snap-on type; violet



**Item No.: 793-501**  
WMB marking card; as card; not stretchable; plain; snap-on type; white



**Item No.: 793-501/000-002**  
WMB marking card; as card; not stretchable; plain; snap-on type; yellow



**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



**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



**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



**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



**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



**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



**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



**Item No.: 2009-115**  
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white



**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

1.1.6.3 Marker carrier



**Item No.: 285-442**  
Adaptor; gray

1.1.6.4 Marking strip



**Item No.: 2009-110**  
Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

1.1.7 Power tap

1.1.7.1 Power tap



**Item No.: 285-427**  
Power tap; for 35 mm² high-current tbs; Module width 8 mm; 6,00 mm²; gray



**Item No.: 283-407**  
Power tap; with 500 mm cable; for 16 mm² (283/783 Series) and 35 mm²; gray

1.1.8 Protective warning marker

1.1.8.1 Cover



**Item No.: 285-420**  
Protective warning marker; with high-voltage symbol, black; yellow

1.1.9 Tool

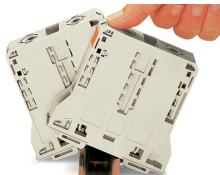
1.1.9.1 Operating tool



Item No.: 210-721  
Operating tool; Blade: 5.5 x 0.8 mm; with a partially insulated shaft; multicoloured

Installation Notes

Installation

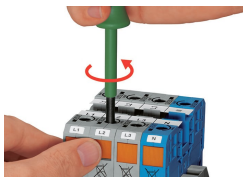


Snapping a terminal block onto DIN-rail (to the left or to the right).

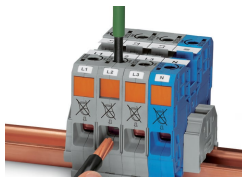


Removing a terminal block from the assembly (to the left or to the right).

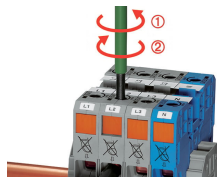
Conductor termination



**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.

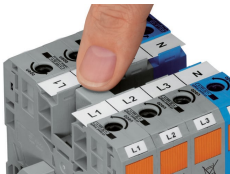


**Conductor termination – step 3:**  
A short counter-clockwise rotation closes the clamp, securing the conductor. When unlocked, allow the operating tool to rotate clockwise to securely terminate the conductor.



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.

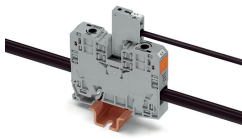


Slide the marking strip laterally to remove the jumper.

Power tap



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

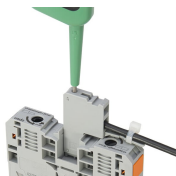


Power tap inserted in a jumper contact slot



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

## Testing

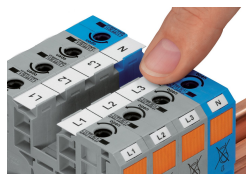


**Testing**  
Voltage measurements can be performed, e.g., using a 2-pole voltage tester (206-707).

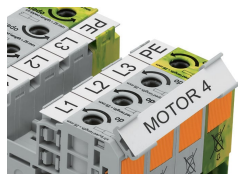


Testing with test plug adapter (283-404).

## Marking



WMB markers or self-adhesive, printable marking strips can be accommodated on 35, 50 and 95 mm<sup>2</sup> 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