

Data sheet | Item number: 855-501/150-000

Current and voltage tap up to 50 mm²; 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



Item description

Short description:

WAGO's Current and Voltage Tap for 50 mm² (0/1 AWG) high-current through terminal blocks provides the ideal basis for successful energy management,

because current and voltage are required wherever electrical power is measured. A combination of current transformer and voltage tap, this solution can be quickly and easily mounted into the jumper slot of WAGO's 50 mm² (1/0 AWG) high-current through terminal block.

An integrated fuse reliably protects downstream energy meters. An integrated current transformer (conversion ratio: 150 A/1 A) allows precise current measurement per EN 61869-2 (accuracy class: 0.5).

The current output connectors are marked with S1 (black) and S2 (red). Both termination and removal of fine-stranded conductors is performed via push-buttons. The 4-pole configuration (2 x S1 and 2 x S2) provides the following advantages:

- Current transformer (S1 and S2) can be short circuited via jumper (2000-402)
- Direct 'Y' point jumper on current transformer

The voltage is connected using a redundant terminal block.

Additionally, the current and voltage tap can be marked either using continuous marking strips or via WMB Multi Marking System.

Features:

- Power data can be directly tapped into the power supply
- Easy installation – simply insert the tap into the jumper slot of the 50 mm² (1/0 AWG) high-current through terminal block

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

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- Integrated current transformer (150 A/1 A)
- Accuracy class: 0.5
- Fuse-protected voltage path

Data

Notes

Note

- Suitable for 2-conductor through terminal blocks for DIN-rail mounting (285-150; 285-154)
- Suitable for 2-conductor through terminal blocks with mounting flanges (285-141; 285-144)
- Spare fuse: WAGO 855-8020

Technical data

Input Current Transformers

| | |
|--|--------------|
| Primary rated current | 150 A |
| Rated continuous thermal current I_{cth} | 150 A |
| Rated short-time thermal current I_{th} | 9 kA / 1 s |
| Rated surge current I_{dyn} | 22.5 kA |
| Rated frequency | 50 ... 60 Hz |

Output (current transformer)

| | |
|-------------------------|--------|
| Secondary rated current | 1 A |
| Rated power S_r | 0.2 VA |

Output (voltage tap)

| | |
|---------------------|---|
| Fuse (voltage path) | 2 A; 450 V; F; 70 kA; 5 x 25 mm (WAGO 855-8020) |
|---------------------|---|

Measurement Error

| | |
|----------------|-----|
| Accuracy class | 0.5 |
|----------------|-----|

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



Safety and protection

| | |
|-------------------------------------|-------------------------|
| Highest voltage for equipment U_m | AC 720 V _{rms} |
| Overvoltage category | III |
| Pollution degree | 2 |
| Protection type | IP20 |

Test voltage

| | |
|--------------|-----------------------|
| Test voltage | AC 3 kV; 50 Hz; 1 min |
|--------------|-----------------------|

Connection data

| | |
|---------------------------------------|---|
| Connection type 1 | Current output |
| Connection technology | Push-in CAGE CLAMP® |
| WAGO connector | WAGO 250 Series |
| Solid conductor | 0.2 ... 1.5 mm ² / 24 ... 16 AWG |
| Fine-stranded conductor | 0.2 ... 1.5 mm ² / 24 ... 16 AWG |
| Strip length | 8.5 ... 9.5 mm / 0.33 ... 0.37 inches |
| Connection type 2 | Voltage output |
| Connection technology 2 | Push-in CAGE CLAMP® |
| WAGO connector 2 | WAGO 2624 Series |
| Solid conductor 2 | 0.2 ... 6 mm ² / 24 ... 10 AWG |
| Fine-stranded conductor 2 | 0.2 ... 6 mm ² / 24 ... 10 AWG |
| Strip length 2 | 10 ... 12 mm / 0.39 ... 0.47 inches |
| Feedthrough for measurement conductor | Ø ≤ 12 mm |

Physical data

| | |
|--------|----------------------|
| Width | 20 mm / 0.787 inches |
| Height | 68 mm / 2.677 inches |
| Depth | 57 mm / 2.244 inches |

Mechanical Data

| | |
|---------------|---|
| Mounting type | via 2-conductor high-current through terminal block's jumper slot |
|---------------|---|

Material Data

| | |
|-----------------------------|----|
| Flammability class per UL94 | V2 |
|-----------------------------|----|

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



| | |
|------------------|-------|
| Housing material | PA 66 |
| Weight | 66 g |

Environmental requirements

| | |
|---------------------------------|--|
| Pollution degree | 2 |
| Ambient temperature (operation) | -25 ... +70 °C |
| Ambient temperature (storage) | -25 ... +70 °C |
| Relative humidity | 5 ... 85 % (without condensation) |
| Operating altitude (max.) | 2000 m |
| Vibration resistance | 10g (industry; 5 ... 2000 Hz; per IEC 60068-2-6); 4g (ship; 5 ... 150 Hz; per IEC 60068-2-6) |

Standards and specifications

| | |
|--------------------------|----------------------------|
| Conformity marking | CE |
| Standards/specifications | EN 61869-2 EN 60947-7-3 |

Commercial data

| | |
|-----------------------|---------------|
| eCl@ss 10.0 | 27-21-09-02 |
| eCl@ss 9.0 | 27-21-09-02 |
| ETIM 8.0 | EC002048 |
| ETIM 7.0 | EC002048 |
| PU (SPU) | 1 pcs |
| Packaging type | box |
| Country of origin | NL |
| GTIN | 4055143782760 |
| Customs tariff number | 85043180888 |

Environmental Product Compliance

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

Approvals / Certificates


General approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|------|--|--------------------------------|-------------------|
| | EAC Brjansker Zertifizierungsstelle | TP TC 004/2011, TP TC 020/2011 | EAC RU C-DE.AM02. |

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



Declarations of conformity and manufacturer's declarations

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

Optional accessories

Mounting

Current transformer terminal block

**Item no.: 2007-8874**Compact terminal block; for current and voltage transformers; 6,00 mm²; multicolouredwww.wago.com/2007-8874**Item no.: 2007-8877**Compact terminal block; for current transformer circuit; 6,00 mm²; multicolouredwww.wago.com/2007-8877**Item no.: 2007-8875**Compact terminal block; for current transformer circuit; 6,00 mm²; multicolouredwww.wago.com/2007-8875**Item no.: 2007-8876**Compact terminal block; for 3-phase current transformer circuit; 6,00 mm²; multicolouredwww.wago.com/2007-8876**Item no.: 2007-8873**Compact terminal block; for current and voltage transformers; 6,00 mm²; multicolouredwww.wago.com/2007-8873

Fuse

Fuse

**Item no.: 855-8020**

Miniature fuse; 5 x 25 mm; with indicator

www.wago.com/855-8020

Marking accessories

Marking strip

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

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 **Item no.: 2009-110**
 Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white www.wago.com/2009-110


 **Item no.: 210-831**
 Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive; white www.wago.com/210-831


 **Item no.: 210-832**
 Marking strips; on reel; 3 mm wide; plain; Self-adhesive; white www.wago.com/210-832


Marker


 **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.: 793-501**
 WMB marking card; as card; not stretchable; plain; snap-on type; white www.wago.com/793-501


 **Item no.: 793-502**
 WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white www.wago.com/793-502


 **Item no.: 793-503**
 WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; white www.wago.com/793-503

 **Item no.: 793-504**
 WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; white www.wago.com/793-504

 **Item no.: 793-505**
 WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type; white www.wago.com/793-505


 **Item no.: 793-506**
 WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type; white www.wago.com/793-506

 **Item no.: 793-566**
 WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; white www.wago.com/793-566

 **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

Tool

Operating tool






 **Item no.: 210-720**
 Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured www.wago.com/210-720

Terminal blocks

Through terminal block

 **Item no.: 285-154**

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

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|--|--|--|
| | 2-conductor through terminal block; 50 mm ² ; lateral marker slots; only for DIN 35 x 15 rail; POWER CAGE CLAMP; 50,00 mm ² ; blue | www.wago.com/285-154 |
|  | Item no.: 285-150 2-conductor through terminal block; 50 mm ² ; lateral marker slots; only for DIN 35 x 15 rail; POWER CAGE CLAMP; 50,00 mm ² ; gray | www.wago.com/285-150 |
|  | Item no.: 285-144 2-conductor through terminal block; 50 mm ² ; lateral marker slots; with fixing flanges; POWER CAGE CLAMP; 50,00 mm ² ; blue | www.wago.com/285-144 |
|  | Item no.: 285-141 2-conductor through terminal block; 50 mm ² ; lateral marker slots; with fixing flanges; POWER CAGE CLAMP; 50,00 mm ² ; gray | www.wago.com/285-141 |
| Signal conditioner | | |
| Power measurement module | | |
|  | Item no.: 2857-570/024-001 3-Phase Power Measurement Module; 3x277/480 V/1 A; Modbus RTU; Digital output; Configuration via software; Supply voltage: 24 VDC | www.wago.com/2857-570/024-001 |
| Current signal conditioner | | |
|  | Item no.: 857-550 Current signal conditioner; Current input signal; Current and voltage output signal; Digital output; Configuration via software; Supply voltage: 24 VDC; 6 mm module width; 2,50 mm ² | www.wago.com/857-550 |

Downloads

Documentation

Bid Text

| | | | |
|---------------------------------|-------------|-----------------|----------|
| 855-501/150-000 X81 - Datei | 2019 Feb 19 | xml 8.7 kB | Download |
| 855-501/150-000 docx - Datei | 2018 Aug 9 | docx 22.0 kB | Download |

Instruction Leaflet

| | | | |
|--|--|---------------|----------|
| Current and voltage tap for the 2-conductor through terminal block of the 855 series | | pdf 1.3 MB | Download |
| Aufsteck-Stromwandler | | pdf 1.5 MB | Download |

Additional Information

| | | | |
|---|------------------------|---------------|----------|
| Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging | V 1.1.0 2022 Aug 18 | pdf 2.2 MB | Download |
|---|------------------------|---------------|----------|

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CAD/CAE-Data

CAD data

| | | |
|------------------------------|---------------------|--------------------------|
| 2D/3D Models 855-501/150-000 | URL | Download |
|------------------------------|---------------------|--------------------------|

CAE data

| | | |
|------------------------------|---------------------|--------------------------|
| ZUKEN Portal 855-501/150-000 | URL | Download |
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|-----------------------------------|---------------------|--------------------------|
| EPLAN Data Portal 855-501/150-000 | URL | Download |
|-----------------------------------|---------------------|--------------------------|

Environmental Product Compliance

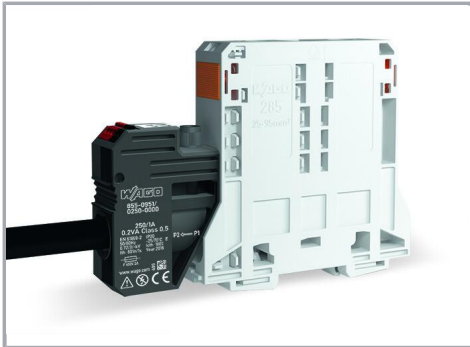
Compliance Search

| | | |
|--|---------------------|--------------------------|
| Environmental Product Compliance 855-501/150-000 | URL | Download |
|--|---------------------|--------------------------|

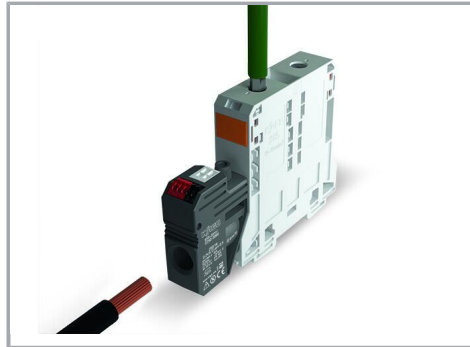
Current and voltage tap up to 50 mm²; Primary rated current: 150 A; Secondary rated current: 1 A; Rated power: 0.2 VA; Accuracy class: 0.5; fused

Installation Notes

Installation



Installation via jumper slot



Feedthrough for primary conductors

Conductor termination

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



Push-in CAGE CLAMP[®] connection technology

Security



Integrated fuse

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