

Data sheet | Item number: 855-1851/350-000

Current and voltage tap up to 185 mm²; Primary rated current: 350 A;
Secondary rated current: 1 A; Rated power: 0.2 VA; Accuracy class: 0.5;
fused



www.wago.com/855-1851/350-000



Item description

Short description:

WAGO's Current and Voltage Tap for 185 mm² (350 kcmil) 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, the current and voltage tap can be quickly and easily mounted into the jumper slot of WAGO's 185 mm² (350 kcmil) high-current through terminal block.

An integrated fuse reliably protects downstream energy meters. An integrated current transformer (conversion ratio: 350 A/1 A) allows precise current measurement per EN 61869-2 (accuracy class: 0.5).

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

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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 5-pole configuration (2 x S1 and 3 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 185 mm² (350 kcmil) high-current through terminal block
- Integrated current transformer (350 A/1 A)
- Accuracy class: 0.5
- Fuse-protected voltage path

Data

Notes

- | | |
|------|---|
| Note | <ul style="list-style-type: none"> ■ Suitable for 2-conductor through terminal blocks for DIN-rail mounting (285-1185; 285-1184) ■ Suitable for 2-conductor through terminal blocks with mounting flanges (285-1161; 285-1164) ■ Spare fuse: WAGO 855-8020 |
|------|---|

Technical data

Input – current transformer

Primary rated current	350 A
Rated continuous thermal current I_{cth}	350 A
Rated short-time thermal current I_{th}	21 kA / 1 s
Rated surge current I_{dyn}	52.5 kA
Rated frequency	50 ... 60 Hz

Output – current transformer

Secondary rated current	1 A
Rated power S_r	0.2 VA

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

Output – voltage tap

Rated voltage	AC 400 V
Fuse (voltage path)	2 A; 450 V; F; 70 kA; 5 x 25 mm (WAGO 855-8020)

Measurement error

Accuracy class	0.5
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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
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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 ≤ 21.5 mm

Physical data

Width	32 mm / 1.256 inches
Height	84 mm / 3.307 inches

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



Depth	60 mm / 2.362 inches
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Mechanical data

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

Flammability class per UL94	V2
Housing material	PA 66
Weight	144 g

Environmental requirements

Pollution degree	2
Ambient temperature (operation)	-25 ... +70 °C
Surrounding air 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

ETIM 8.0	EC002048
ETIM 7.0	EC002048
PU (SPU)	1 Each
Packaging type	box
Country of origin VKOrg Germany	NL
GTIN	4055143851602
Customs tariff number VKOrg Germany	85043180888

Approvals / Certificates**Country specific Approvals**

Logo	Approval	Additional Approval Text	Certificate name
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EAC
Brjansker Zertifizierungsstelle

TP TC 004/2011, TP TC 020/2011

EAC RU C-
DE.AM02.
B.00111
/19

Optional accessories

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

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

Signal conditioner

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

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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.: 857-550Current 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 mm²www.wago.com/857-550

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

Mounting

Current transformer terminal block

Item no.: 2007-8874Compact 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

Terminal blocks

Through terminal block

Item no.: 285-11852-conductor through terminal block; 185 mm²; lateral marker slots; only for DIN 35 x 15 rail; POWER CAGE CLAMP; 185,00 mm²; graywww.wago.com/285-1185**Item no.: 285-1184**2-conductor through terminal block; 185 mm²; lateral marker slots; only for DIN 35 x 15 rail; POWER CAGE CLAMP; 185,00 mm²; bluewww.wago.com/285-1184**Item no.: 285-1161**2-conductor through terminal block; 185 mm²; lateral marker slots; with fixing flanges; POWER CAGE CLAMP; 185,00 mm²; graywww.wago.com/285-1161**Item no.: 285-1164**2-conductor through terminal block; 185 mm²; lateral marker slots; with fixing flanges; POWER CAGE CLAMP; 185,00 mm²; bluewww.wago.com/285-1164

Fuse

Other

Item no.: 855-8020

Miniature fuse; 5 x 25 mm; with indicator

www.wago.com/855-8020

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Downloads

Documentation

Bid Text

855-1851/350-000 X81 - Datei	2019 年2月19日	xml 8.7 kB	Download
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855-1851/350-000 docx - Datei	2018 年8月9日	docx 21.7 kB	Download
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Instruction Leaflet

Current and voltage tap for the 2-conductor through terminal block of the 855 series		pdf 1.3 MB	Download
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Additional Information

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf 265.8 kB	Download
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CAD/CAE-Data

CAD data

2D/3D Models 855-1851/350-000		URL	Download
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CAE data

ZUKEN Portal 855-1851/350-000		URL	Download
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EPLAN Data Portal 855-1851/350-000		URL	Download
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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 855-1851/350-000 Current and voltage tap up to 185 mm ² ; Primary rated current: 350 A; Secondary rated current: 1 A; Rated power: 0.2 VA; Accuracy class: 0.5; fused		URL	Download
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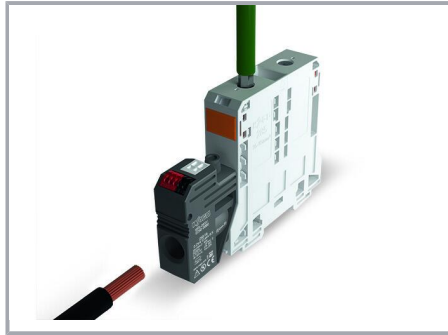
Subject to changes. Please also observe the further product documentation!

Installation Notes

Installation



Installation via jumper slot



Feedthrough for primary conductors

Conductor termination



Push-in CAGE CLAMP[®] connection technology

Security



Integrated fuse

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