

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

<https://www.wago.com/855-1851/350-000>



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). 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

Notes	
Note	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		Input – current transformer	
Measured variable	Voltage	Rated continuous thermal current I _{cth}	350 A
	Current	Rated short-time thermal current I _{th}	21 kA / 1 s
		Rated surge current I _{dyn}	52.5 kA
		Rated frequency	50 ... 60 Hz
		Primary rated current	350 A



Output – current transformer	
Secondary rated current	1 A
Rated power S_r	0.2 VA
Measurement error	
Accuracy class	0.5

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

Safety and protection	
Overvoltage category	III
Pollution degree	2
Protection type	IP20
Test voltage	AC 3 kV; 50 Hz; 1 min
Highest voltage for equipment U_m	AC 720 V _{rms}

Connection data	
Feedthrough for measurement conductor	$\varnothing \leq 21.5 \text{ mm}$
Connection object type 1	
Connection type 1	Current output
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 250 Series
Strip length	8.5 ... 9.5 mm / 0.33 ... 0.37 inches
Solid conductor	0.2 ... 1.5 mm² / 24 ... 16 AWG
Fine-stranded conductor	0.2 ... 1.5 mm² / 24 ... 16 AWG

Connection object type 2	
Connection type 2	Voltage output
Connection technology 2	Push-in CAGE CLAMP®
WAGO connector 2	WAGO 2624 Series
Strip length 2	10 ... 12 mm / 0.39 ... 0.47 inches
Solid conductor 2	0.2 ... 6 mm² / 24 ... 10 AWG
Fine-stranded conductor 2	0.2 ... 6 mm² / 24 ... 10 AWG

Physical data	
Width	32 mm / 1.256 inches
Height	84 mm / 3.307 inches
Depth	60 mm / 2.362 inches

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



Material data	
Housing material	PA 66
Fire load	0 MJ
Weight	144 g


Environmental requirements	
Ambient temperature (operation)	-25 ... +70 °C
Ambient temperature (storage)	-25 ... +70 °C
Relative humidity	5 ... 85 % (without condensation)
Operating altitude (max.)	2000 m

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 pcs
Packaging type	Box
Country of origin	NL
Customs tariff number	85043180888

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	EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
EAC Brjansker Zertifizierungs- stelle	TP TC 004/2011,TP TC 020/2011	EAC RU C-DE.AM02. B.00111/19			

Downloads

Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 855-1851/350-000	



Documentation				
Bid Text			Instruction Leaflet	
855-1851/350-000	19.02.2019	xml 8.49 KB	Current and voltage tap for the 2-conductor through terminal block of the 855 series	pdf 1312.52 KB
855-1851/350-000	09.08.2018	docx 21.20 KB		

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 855-1851/350-000	EPLAN Data Portal 855-1851/350-000
	ZUKEN Portal 855-1851/350-000

1 Compatible Products
1.1 Optional Accessories
1.1.1 Fuse
1.1.1.1 Fuse



Item No.: 855-8020
Miniature fuse; 5 x 25 mm; with indicator

1.1.2 Installation
1.1.2.1 Current transformer terminal block



Item No.: 2007-8876
Compact terminal block; for 3-phase current transformer circuit; 6,00 mm²; multicoloured



Item No.: 2007-8873
Compact terminal block; for current and voltage transformers; 6,00 mm²; multicoloured



Item No.: 2007-8874
Compact terminal block; for current and voltage transformers; 6,00 mm²; multicoloured



Item No.: 2007-8875
Compact terminal block; for current transformer circuit; 6,00 mm²; multicoloured



Item No.: 2007-8877
Compact terminal block; for current transformer circuit; 6,00 mm²; multicoloured



1.1.3 Marking

1.1.3.1 Marker



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



Item No.: 793-502
WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 793-566
WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 793-503
WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 793-504
WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 793-505
WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 793-506
WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type; white



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



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

1.1.3.2 Marking strip



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



Item No.: 210-831
Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive; white



Item No.: 210-832
Marking strips; on reel; 3 mm wide; plain; Self-adhesive; white

1.1.4 Signal conditioner

1.1.4.1 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 mm²

1.1.4.2 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

1.1.5 Terminal blocks

1.1.5.1 Through terminal block



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; blue



Item No.: 285-1185
2-conductor through terminal block; 185 mm²; lateral marker slots; only for DIN 35 x 15 rail; POWER CAGE CLAMP; 185,00 mm²; gray



Item No.: 285-1164
2-conductor through terminal block; 185 mm²; lateral marker slots; with fixing flanges; POWER CAGE CLAMP; 185,00 mm²; blue



Item No.: 285-1161
2-conductor through terminal block; 185 mm²; lateral marker slots; with fixing flanges; POWER CAGE CLAMP; 185,00 mm²; gray

1.1.6 Tool

1.1.6.1 Operating tool



Item No.: 210-720
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

Installation Notes

Installation



Installation via jumper slot



Feedthrough for primary conductors

Conductor termination



Push-in CAGE CLAMP® connection technology

Security



Integrated fuse