Current and voltage tap up to 50 mm<sup>2</sup>; Primary rated current: 150 A; Secondary ra-

ted current: 1 A; Rated power: 0.2 VA; Accuracy class: 0.5; fused

https://www.wago.com/855-501/150-000





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

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

Technical data			
Input		Input – current transformer	
Measured variable	Voltage	Rated continuous thermal current	I <sub>cth</sub> 150 A
Current	Rated short-time thermal current I <sub>t</sub>	9 kA / 1 s	
		Rated surge current I <sub>dyn</sub>	22.5 kA
	Rated frequency	50 60 Hz	
		Primary rated current	150 A

https://www.wago.com/855-501/150-000



Output – current transformer
Secondary rated current 1 A

Rated power S<sub>r</sub> 0.2 VA

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

Measurement error

Accuracy class 0.5

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 <sub>m</sub>	AC 720 V <sub>rms</sub>

Connection data			
Feedthrough for measurement conductor $\emptyset \le 12 \text{ mm}$	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 mm <sup>2</sup> / 24 10 AWG

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

https://www.wago.com/855-501/150-000



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

Environmental requirements	
Ambient temperature (operation)	-25 +70 °C
Ambient temperature (storage)	-25 +70 °C
Relative humidity	585 % (without condensation)
Operating altitude (max.)	2000 m

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	
Customs tariff number	85043180888	

Environmental Product Compliance	
RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates	
General approvals	Declarations of conformity and manufacturer's declarations

EAC

Approval Standard Certificate Name

EAC TP TC 004/2011,TP TC EAC RU C-DE.AM02.

Brjansker Zertifizierungsstelle B.00111/19

Approval Standard Certificate Name

EU-Declaration of Conformity
WAGO GmbH & Co. KG

https://www.wago.com/855-501/150-000

**Environmental Product** Compliance 855-501/150-000



# Downloads **Environmental Product Compliance** Compliance Search

Documentation			
Bid Text			
855-501/150-000	19.02.2019	xml 8.48 KB	$\underline{\downarrow}$
855-501/150-000	09.08.2018	docx 21.53 KB	$\underline{\downarrow}$

Instruction Leaflet		
Current and voltage tap for the 2-conductor through terminal block of the 855 series	pdf 1312.52 KB	<u>↓</u>
Aufsteck-Stromwandler	pdf 1438.11 KB	$\downarrow$

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 855-501/150-000	EPLAN Data Portal 855-501/150-000 <u> </u>
	ZUKEN Portal 855-501/150-000

# 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



Compact terminal block; for 3-phase cur-

rent transformer circuit; 6,00 mm²; multi-



Item No.: 2007-8873

Compact terminal block; for current and voltage transformers; 6,00 mm²; multicoloured



voltage transformers; 6,00 mm²; multico-



Item No.: 2007-8874 Item No.: 2007-8875 Compact terminal block; for current and

Compact terminal block; for current transformer circuit; 6,00 mm<sup>2</sup>; multicoloured



Item No.: 2007-8877

Item No.: 2007-8876

coloured

Compact terminal block; for current transformer circuit; 6,00 mm²; multicoloured

https://www.wago.com/855-501/150-000



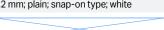
## 1.1.3 Marking

## 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.: 793-504

WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; white



## Item No.: 2009-115

WMB-Inline; for Smart Printer; 1500 pieces



#### Item No.: 793-502

WMB marking card; as card; MARKED; 1 .. 10 (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.: 793-566

Item No.: 793-506

WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; white

WMB marking card; as card; MARKED;

marking; snap-on type; white

41 ... 50 (10x); not stretchable; Horizontal



## Item No.: 793-503

WMB marking card; as card; MARKED; 11 ... 20 (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

on roll; stretchable 5 - 5.2 mm; plain; snapon 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



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 mm<sup>2</sup>

## 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

https://www.wago.com/855-501/150-000



## 1.1.5 Terminal blocks

## 1.1.5.1 Through terminal block



## Item No.: 285-154

2-conductor through terminal block; 50 mm²; lateral marker slots; only for DIN 35 x 15 rail; POWER CAGE CLAMP; 50,00 mm²; blue



#### Item No.: 285-150

2-conductor through terminal block; 50 mm²; lateral marker slots; only for DIN 35 x 15 rail; POWER CAGE CLAMP; 50,00 mm²; gray



#### Item No.: 285-144

2-conductor through terminal block; 50 mm²; lateral marker slots; with fixing flanges; POWER CAGE CLAMP; 50,00 mm²; blue



#### Item No.: 285-141

2-conductor through terminal block; 50 mm²; lateral marker slots; with fixing flanges; POWER CAGE CLAMP; 50,00 mm²; gray

## 1.1.6 Tool

## 1.1.6.1 Operating tool



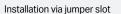
#### Item No.: 210-720

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

## **Installation Notes**

## Installation







Feedthrough for primary conductors

## Conductor termination



Push-in CAGE CLAMP® connection technology

## Security



Integrated fuse

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$ 

Current addresses can be found at::  $\underline{www.wago.com}$ 

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