

Current and Voltage Tap 855 Series



Current and Voltage Tap for the 95 mm² (4/0 AWG) High-Current Through Terminal Block

Item No.	Pack. Unit
855-951/250-000	1

Short description:

WAGO's current and voltage tap for 95 mm² (4/0 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 95 mm² (4/0 AWG) high-current through terminal block.

An integrated fuse reliably protects downstream energy meters. An integrated current transformer (conversion ratio: 250 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 95 mm² (4/0 AWG) high-current through terminal block
- Integrated current transformer (250 A/1 A)
- Accuracy class: 0.5
- Fuse-protected voltage path

Note:

- Suitable for 2-conductor through terminal blocks for DIN-rail mounting (285-195; 285-194)
- Suitable for 2-conductor through terminal blocks with mounting flanges (285-181; 285-184)
- Spare fuse: SIBA Fuse, Item No. 7008913.2

Input – Current Transformer

Primary rated current	250 A
Rated continuous thermal current I_{ctn}	250 A
Rated short-time thermal current I_{th}	15 kA/1 s
Rated surge current I_{dyn}	37.5 kA
Rated frequency	50 ... 60 Hz

Output – Current Transformer

Secondary rated current	1 A
Rated power S_r	0.2 VA

Output – Voltage Tap

Rated voltage	400 VAC
Fuse (voltage path)	2 A; 450 V; F; 70 kA; 5 x 25 mm

Measurement Error

Accuracy class	0.5
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Safety and Protection

Test voltage	3 kVAC; 50 Hz; 1 min
Protection type	IP20
Highest voltage for equipment U_m	720 VAC

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 inch
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 inch
Feedthrough for measurement conductor	Ø ≤ 16 mm

Geometric Data

Width	25 mm / 0.984 inch
Height	73 mm / 2.874 inch
Depth	58 mm / 2.283 inch

Mechanical Data

Mounting type	Via jumper slot of the 2-conductor high-current through terminal block (see note)
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Material Data

Weight	98 g
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Environmental Requirements

Surrounding air temperature (operation)	-25 ... +70 °C
Surrounding air temperature (storage)	-25 ... +70 °C
Relative humidity	5 ... 85 % (non-condensing)
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