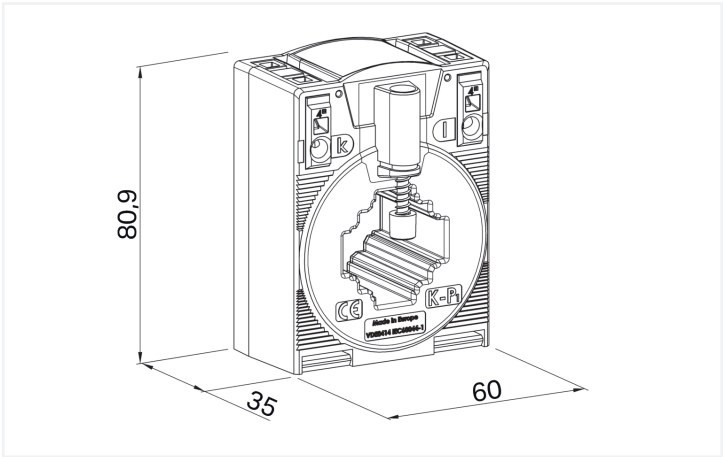
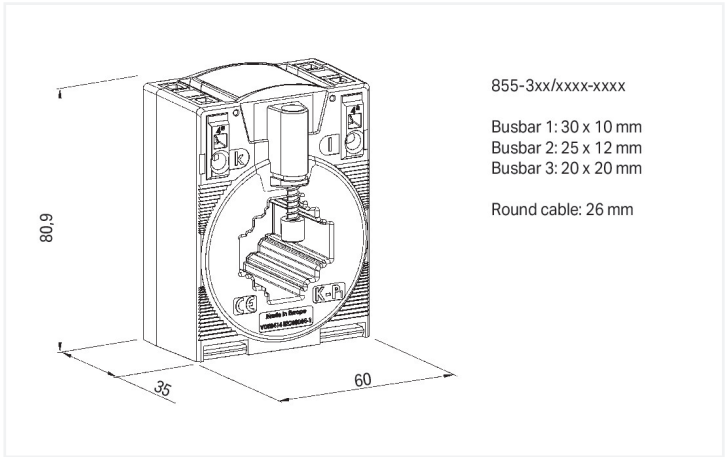


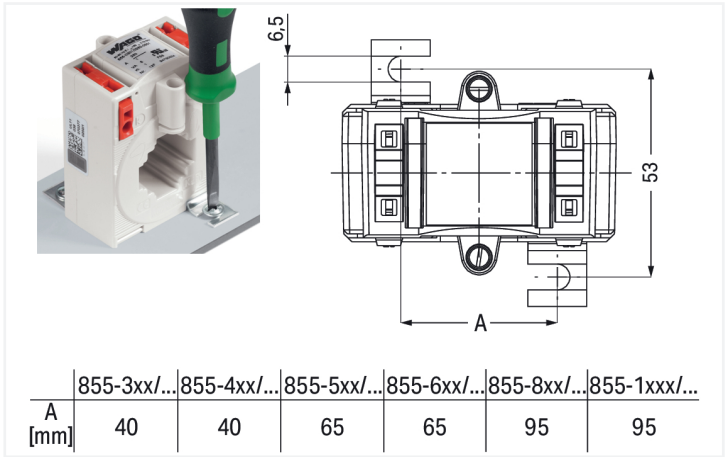
Data Sheet | Item Number: 855-301/600-1001

Plug-in current transformer; Primary rated current: 600 A; Secondary rated current: 1 A; Rated power: 10 VA; Accuracy class: 1

<https://www.wago.com/855-301/600-1001>



Dimensions in mm



Dimensions in mm

Short description:

WAGO's plug-in current transformers (855 Series) are inductive, single-conductor current transformers. Due to the measurement principle used, these current transformers are exclusively designed for AC network applications.

Features:

- Screwless CAGE CLAMP® connection technology
- Several mounting options available
- Vibration- and shock-resistant
- High mechanical retention forces
- High current-carrying capacity
- Continuous overload of 120 % the nominal primary current
- Low-voltage current transformer for operating voltages up to max. 1.2 kV
- For 690 V power networks
- UL recognized components

| Technical data    |         |                                                   |                                                         |
|-------------------|---------|---------------------------------------------------|---------------------------------------------------------|
| Input             |         | Input – current transformer                       |                                                         |
| Measured variable | Current | Rated continuous thermal current I <sub>cth</sub> | 1.2 x I <sub>N</sub>                                    |
|                   |         | Rated short-time thermal current I <sub>th</sub>  | 60 x I <sub>N</sub> / 1 s (max. 100 kA / 1 s)           |
|                   |         | Overcurrent limiting factor                       | FS5 / FS10 (type dependent; see type plate inscription) |
|                   |         | Rated frequency                                   | 50 ... 60 Hz                                            |
|                   |         | Primary rated current                             | 600 A                                                   |



| Output – current transformer |       |
|------------------------------|-------|
| Secondary rated current      | 1 A   |
| Rated power S <sub>p</sub>   | 10 VA |

| Measurement error |   |
|-------------------|---|
| Accuracy class    | 1 |

| Safety and protection                        |                          |
|----------------------------------------------|--------------------------|
| Test voltage                                 | 6 kVAC; 50 Hz; 1 min     |
| Highest voltage for equipment U <sub>m</sub> | 1.2 kV <sub>rms</sub> AC |

| Connection data                       |                                    |
|---------------------------------------|------------------------------------|
| Feedthrough for measurement conductor | Ø 26 mm                            |
| Connection 1                          |                                    |
| Connection technology                 | CAGE CLAMP®                        |
| Strip length                          | 9 ... 10 mm / 0.35 ... 0.39 inches |
| Solid conductor                       | 0.08 ... 4 mm² / 28 ... 12 AWG     |
| Fine-stranded conductor               | 0.08 ... 4 mm² / 28 ... 12 AWG     |

| Physical data |                        |
|---------------|------------------------|
| Width         | 60 mm / 2.362 inches   |
| Height        | 80.9 mm / 3.185 inches |
| Depth         | 52 mm / 2.047 inches   |

| Mechanical data |                                                                                                                                          |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Mounting type   | Closed current transformer<br>Installation on mounting plate<br>Mounting on DIN-rail via DIN-rail adapter<br>Installation on round cable |

| Material data    |       |
|------------------|-------|
| Insulation class | E     |
| Fire load        | 0 MJ  |
| Weight           | 230 g |

| Environmental requirements      |                |
|---------------------------------|----------------|
| Ambient temperature (operation) | -5 ... +50 °C  |
| Ambient temperature (storage)   | -25 ... +70 °C |
| Operating altitude (max.)       | 1000 m         |

| Standards and specifications |                                         |
|------------------------------|-----------------------------------------|
| Conformity marking           | CE                                      |
| Standards/specifications     | EN 61869-1<br>EN 61869-2<br>UL: E356480 |



| Commercial data       |             |  |
|-----------------------|-------------|--|
| PU (SPU)              | 1 pcs       |  |
| Packaging type        | Box         |  |
| Country of origin     | HU          |  |
| Customs tariff number | 85043129900 |  |

| Product Classification |                      |  |
|------------------------|----------------------|--|
| UNSPSC                 | 39121032             |  |
| eCl@ss 10.0            | 27-21-09-02          |  |
| eCl@ss 9.0             | 27-21-09-02          |  |
| ETIM 9.0               | EC002048             |  |
| ETIM 8.0               | EC002048             |  |
| ECCN                   | NO US CLASSIFICATION |  |

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

| Approvals / Certificates                                                          |                |                                                            |
|-----------------------------------------------------------------------------------|----------------|------------------------------------------------------------|
| General approvals                                                                 |                | Declarations of conformity and manufacturer's declarations |
|  |                |                                                            |
| Approval                                                                          | Standard       | Certificate Name                                           |
| EAC<br>GZO Almaty Standart                                                        | TP TC 004/2011 | EAC CoC 03082                                              |
| UL<br>Underwriters Laboratories Inc.                                              | IEEE C57.13    | E356480                                                    |
| Approval                                                                          | Standard       | Certificate Name                                           |
| EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG                           | -              | -                                                          |
| UK-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG                           | -              | -                                                          |

| Downloads                                               |                                                                                     |
|---------------------------------------------------------|-------------------------------------------------------------------------------------|
| Environmental Product Compliance                        |                                                                                     |
| Compliance Search                                       |                                                                                     |
| Environmental Product<br>Compliance<br>855-301/600-1001 |  |

| Documentation    |            |                 |                                                                                                                                     |
|------------------|------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Bid Text         |            |                 | Instruction Leaflet                                                                                                                 |
| 855-301/600-1001 | 05.02.2015 | doc<br>31.00 KB |                                                  |
| 855-301/600-1001 | 19.02.2019 | xml<br>4.96 KB  |                                                  |
|                  |            |                 | Aufsteck-Stromwandler<br>pdf<br>1438.11 KB<br> |



| CAD/CAE-Data                     |                                       |
|----------------------------------|---------------------------------------|
| CAD data                         | CAE data                              |
| 2D/3D Models<br>855-301/600-1001 | EPLAN Data Portal<br>855-301/600-1001 |
|                                  | WSCAD Universe<br>855-301/600-1001    |
|                                  | ZUKEN Portal<br>855-301/600-1001      |

1 Compatible Products

1.1 Optional Accessories

1.1.1 Installation

1.1.1.1 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

1.1.2 Mounting adapter

1.1.2.1 DIN-rail adapter



[Item No.: 855-9900](#)  
Carrier rail adapter

1.1.2.2 Fast connection adapter



[Item No.: 855-9910](#)  
Quick-mount kit

1.1.3 Signal conditioner

1.1.3.1 Current signal conditioner



[Item No.: 857-551](#)  
Current signal conditioner; Current input signal; Current and voltage output signal; Digital output; Configuration via software; Supply voltage: 24 VDC; 6 mm module width



[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

1.1.3.2 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

1.1.4 Tool

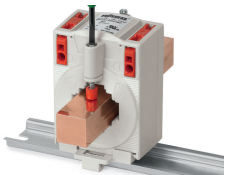
1.1.4.1 Operating tool



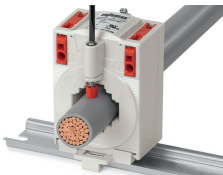
Item No.: 210-720  
Operating tool; Blade: 3.5 x 0.5 mm; with a  
partially insulated shaft; multicoloured

Installation Notes

Installation



Installation on copper current bar



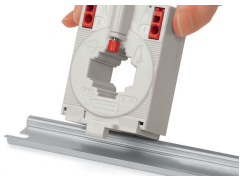
Installation on round cable



Installation on mounting plate



Mounting on DIN-rail via 855-9900 DIN-Rail Adapter



Snapping onto DIN-rail



Snapping onto DIN-rail

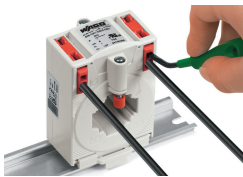


Installation via 855-9910 Quick-Mount Kit

Conductor termination



Conductor termination – screwdriver ac-  
tuation perpendicular to conductor entry



Conductor termination – screwdriver ac-  
tuation parallel to conductor entry