

Easergy T300 and P5 ranges

AC Voltage adapter

Installation Guide



NT0039401



NOTE

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

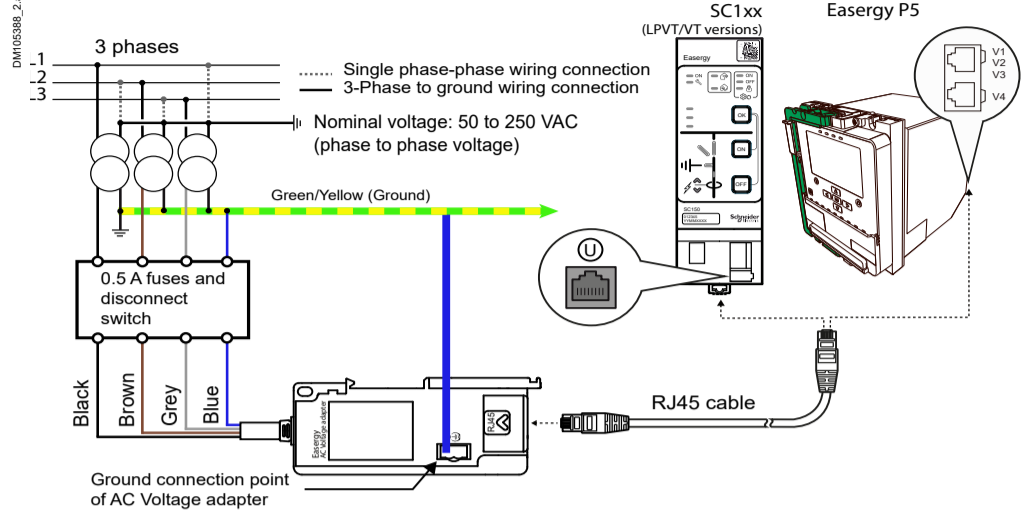
A qualified person is one who has skills and knowledge related to the construction, installation, and operation of electrical equipment and has received safety training to recognize and avoid the hazards involved.

Part number	Designation
EMS59572	AC voltage adapter low insulation (2 KV/1 mn)

Description

The AC Voltage adapter is the interface between the Medium Voltage electrical network and the measurement and control unit (Easergy SC1xx - LPVT/VT version), or protection relay (Easergy P5 - LPIT version). For more information about installation and connections, refer to the SC1xx Installation guide or Easergy P5 User manual provided on Schneider Electric website www.se.com.

Connecting AC Voltage adapter



NOTICE

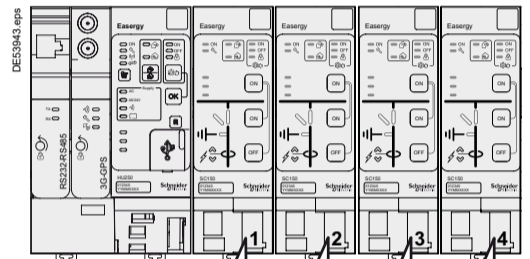
HAZARD OF INCORRECT VOLTAGE MEASUREMENT

- For T300 system, the green/yellow ground in the above diagram must be the same as the one used throughout the whole system. The 0V of SC1xx power supply input must be connected to this ground.
 - Ground connection point of AC Voltage adapter must be connected to the isolated ground of VT sensor (LV transformer). For other wiring cases, please consult Schneider Electric.
- Failure to follow these instructions can result in equipment damage.**

Connecting Voltage inputs

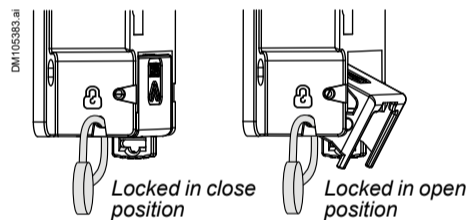
Ethernet RJ45 cable can be supplied as an accessory. The Ethernet RJ45 cable is to be connected to SC1xx or Easergy P5. Length maximum: 4 m (T300) / 10 m (P5) Cable type (S/STP or S/FTP):

- CCA770 - 0.6 m / 1.97 ft (reference: 59960)
- CCA772 - 2 m / 6.56 ft (reference: 59961)
- CCA774 - 4 m / 13.12 ft (reference: 59962).



RJ45 locking

The RJ45 input of the AC Voltage adapter can be locked in the open or closed position by placing a seal in the hole marked with a lock symbol (see drawing below). This allows you to lock the RJ45 connector of the Ethernet cable in its slot or prevent its connection.



Connection of the Ethernet RJ45 cable to the right SC1xx voltage input depending to the channel number.

NOTICE

HAZARD OF INCORRECT VOLTAGE MEASUREMENTS

- Do not expose the device to conditions exceeding the electrical values specified in this document.
 - Standby protection should be provided in accordance with national and international cabling regulations.
 - An appropriate electrical disconnecting device must be installed in the building in question.
 - Check that the connections correspond to the recommended cables before powering up the equipment.
 - Use appropriate tools to perform cabling on the connectors (suitable screwdriver, crimped end-pieces, etc.).
- Failure to follow these instructions can result in equipment damage.**

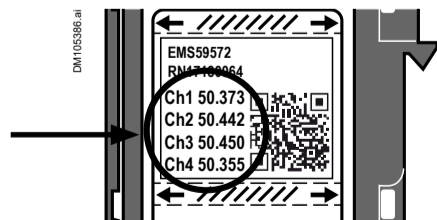
⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Wear your personal protective equipment (PPE) and comply with the safe electrical work practices. See NFPA 70E in the USA or applicable local standards.
 - Only qualified electrical workers should install this equipment. Such work should be performed only after reading this entire set of instructions.
 - Switch off the electric power supply of the device and of all the devices to which the device and the AC Voltage adapter are connected before any handling or replacement operation.
 - Ensure the MV Network is turned off before to install the AC Voltage adapter and making the connections to the device and the MV network.
 - Always use a properly rated voltage sensing device to confirm that all power is off.
 - Do not connect the AC Voltage adapter directly to the MV electrical network. Always use fuses and disconnect switch (maximum voltage allowable on the AC Voltage adapter inputs : 600 VAC).
 - Do not use RJ45 cable longer than 10 meters (32.8 feet).
 - Never short the secondary of a Voltage Transformer (VT).
- Failure to follow these instructions will result in death or serious injury.**

Calibration

The values shown on the product label allow calibration of the AC Voltage adapter for each phase and neutral. When used with an Easergy T300, this calibration operation is carried out during T300 commissioning via the T300 Web server. Refer to the T300 User Manual for details about this operation (Ref: NT00378-xx - "T300 settings" chapter).



Identification

The serial number of the AC Voltage adapter is formed as follows: Year - Week - Work order, eg 17340265 (265th product manufactured, week 34 of the year 2017).

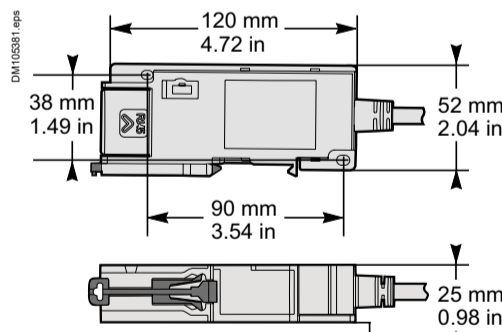
Grounding

The AC Voltage adapter needs to be connected to the ground via the ground connection point on front panel. This point corresponds to a measuring ground (see drawing on **Connecting AC Voltage adapter** chapter).

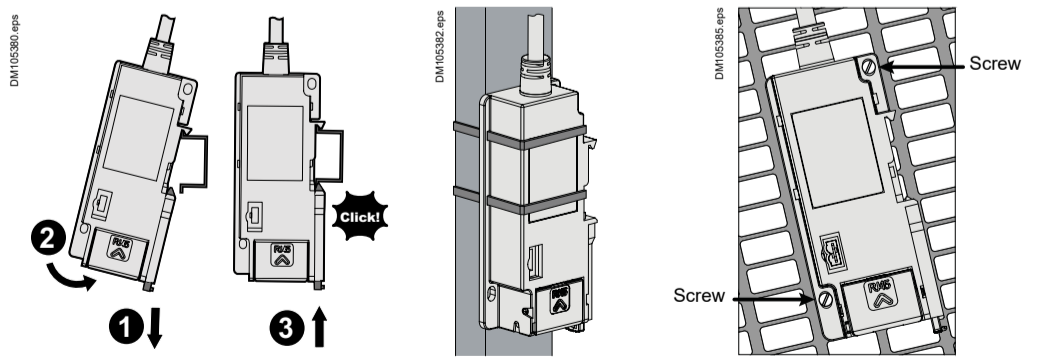
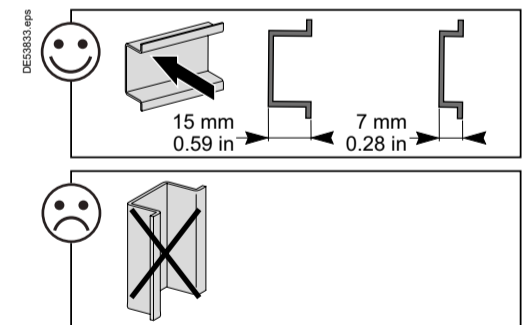
Installation

Installing AC Voltage adapter

The AC Voltage adapter is fastened to a DIN rail. No tool is needed for mounting. Simply clip it in order to fasten it as shown below.



External dimensions of the AC Voltage adapter.



Installing the AC Voltage adapter on DIN rail.

Installing the AC Voltage adapter on structure mounting (collar width to be used: 4 mm / 0.16 in).

Installing the AC Voltage adapter with telequick grid mounting (screws to be used : 4 mm / 0.16 in).

Schneider Electric
35 rue Joseph Monier
92500 Rueil Malmaison - France
Phone: +33 (0)1 41 29 70 00
www.schneider-electric.com

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