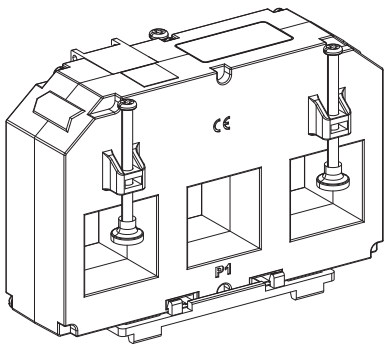
Plug and play 0.333 VAC Current Transformers

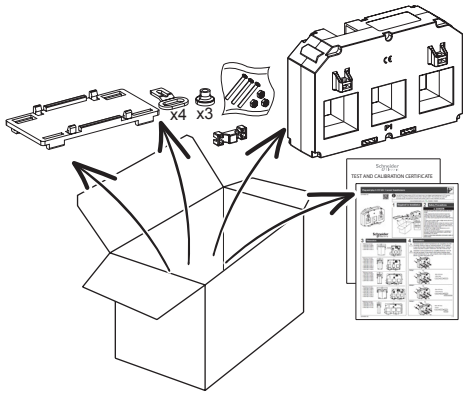
QGH90901-04

The METSECTV series of 0.333 volt, three-in-one, low voltage current transformers (LVCT) provide secondary voltage (AC) proportional to the primary (sensed) current. They should be only used with Schneider Electric PM22xxR and PM53xxR series power meters for easy installation and setup.

www.schneider-electric.com PM2000 / PM5000



1 Required for Installation



2 Safety Precautions

⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

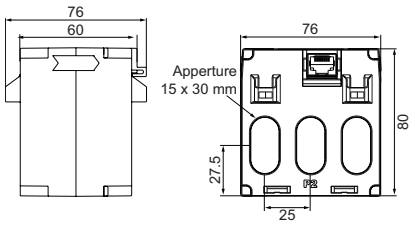
- Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices. See NFPA 70E in the USA or applicable local standards.
- Turn off all power supplying this device before working on it.
- Always use a properly rated voltage sensing device to confirm that all power is off.
- Do not exceed the device's ratings for maximum limits.
- Do not use this device for critical control or protection applications where human or equipment safety relies on the operation of the control circuit.
- Use only low voltage current transformer (LVCT) specified by Schneider Electric.
- Do not use the device if the product or packaging is damaged. Contact Schneider Electric customer care representative for support.

Failure to follow these instructions will result in death or serious injury.

3 Dimension

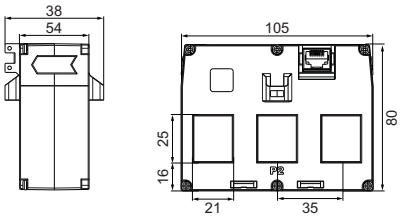
Reference Number

- METSECTV25006
- METSECTV25010
- METSECTV25013
- METSECTV25016



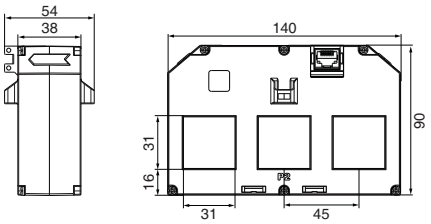
Reference Number

- METSECTV35006
- METSECTV35010
- METSECTV35012
- METSECTV35013
- METSECTV35015
- METSECTV35016
- METSECTV35020
- METSECTV35025



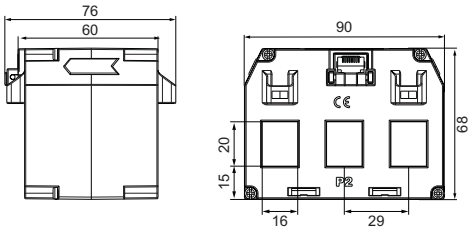
Reference Number

- METSECTV45025
- METSECTV45030
- METSECTV45040
- METSECTV45050
- METSECTV45060
- METSECTV45063



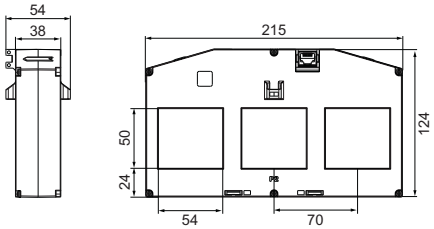
Reference Number

- METSECTV29006
- METSECTV29010
- METSECTV29012
- METSECTV29013
- METSECTV29015
- METSECTV29016
- METSECTV29020



Reference Number

- METSECTV70080
- METSECTV70100
- METSECTV70125

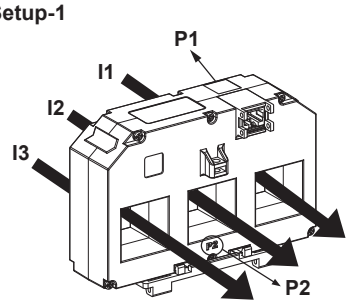


4 Orientation

Schneider Electric Current Transformers are compatible only with Schneider Electric's range of metering products. Do not attempt to use with any other manufacturer's metering product. Failure to comply may lead to system malfunction and risk of serious injury.

Installation must be performed by a qualified electrician. Turn off and lock out power to the primary circuit before installing these current transformers (CT's). Use a properly rated voltage sensing device to confirm that power is off.

Setup-1

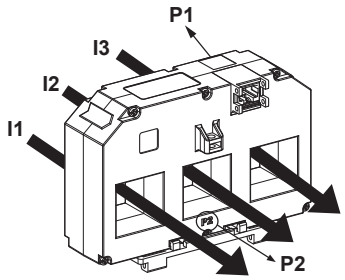


Meter HMI Setup

Default Setup

Main → Set up → Sensor

Setup-2

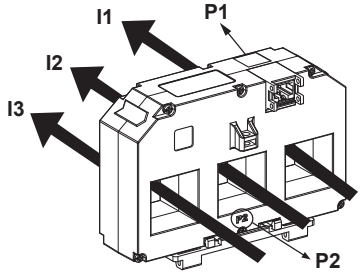


Meter HMI Setup

Phase Sequence

Main → Set up → Sensor → Phase Sequence

Setup-3



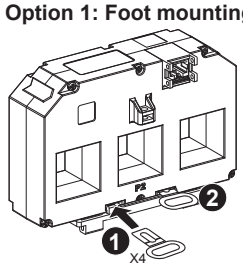
Meter HMI Setup

Direction

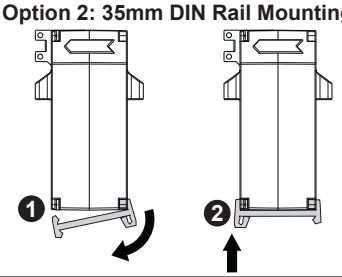
Main → Set up → Sensor → Direction

5 Mounting

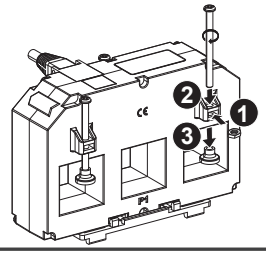
Option 1: Foot mounting



Option 2: 35mm DIN Rail Mounting



Option 3: Busbar mounting



Note:

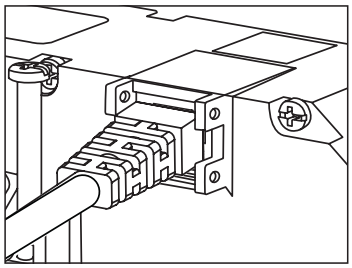
- Accuracy is specified with primary conductor(s) centered in the CT window.
- In any applications where the fault current can exceed 20 times the rated current of the LVCT, wire ties or similar fasteners should be used to secure the sensed conductor to the CT housing.

6 Cable Connection

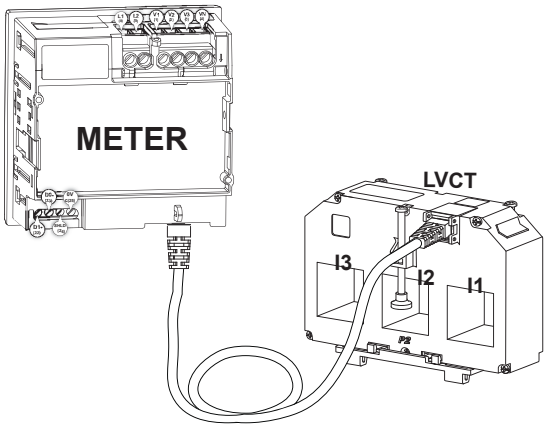
Use only cables designed for Schneider Electric range of products.
Do not attempt to use any other types of cable.
Failure to comply may lead to system malfunction and risk of serious injury.

Recommended Schneider Electric LVCT Cables
RJ45 CAT 5e

- DCEPCURJ01GYM,
- DCEPCURJ02GYM,
- DCEPCURJ03GYM,
- DCEPCURJ05GYM,
- DCEPCURJ10GYM,
- DCEPCURJX5GYM



7 Wiring

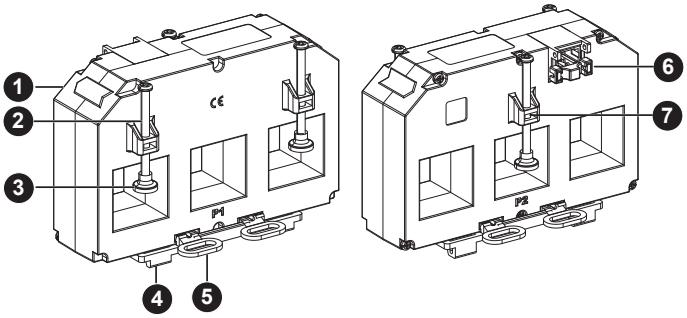


LVCT available options (Schneider Electric make)

METSECTV250xx series	60A, 100A, 125A, 160A
METSECTV290xx series	60A, 100A, 120A, 125A, 150A, 160A, 200A
METSECTV350xx series	60A, 100A, 120A, 125A, 150A, 160A, 200A, 250A
METSECTV450xx series	250A, 300A, 400A, 500A, 600A, 630A
METSECTV70xxx series	800A, 1000A, 1250A

Note: The RJ45 cables are rated up to 300 V AC (L-N). Ensure appropriate care is taken to separate RJ45 cable from contacting hazardous live parts. In case of higher insulation voltage requirements, ensure appropriate care is taken as per local regulations e.g., separation, sleeving, etc.

8 Description



1. Current Transformer
2. Screw M4 x 50mm
3. Busbar insulator(x3)
4. DIN rail mounting bracket
5. Foot Mount Bracket (x4)
6. Sealable RJ Cable Cover
7. Nut M4

9 Specification

Type	Description
Accuracy	Class 1.0
Max. Voltage L-L Sensed Conductor	720 VLL
Rated Continuous Over Current	1.2 x rated current
Rated Frequency range (fr)	47 to 63 Hz
Rated Secondary Burden (Rbr)	> 5 KΩ
Operating Temperature Range	-25° to 55°C
Storage Temperature Range	-45° to 85°C
Rated short time thermal current(Ith)	<60 In/1 second
Rated dynamic current(Idyn)	2.5 Ith
Humidity Range	5-95% RH non-condensing
Altitude of Operation	2000 m
IP Rating	IP20
Installation category	Cat III For indoor use only Not suitable for wet location
Compliance	CE, EN60044-8 and EN61869-2, RoHS, UL

- LVCTs are rated for installation on uninsulated conductors with voltage not exceeding 300 V line-to-neutral or line-to-earth.
- Where the line-to-neutral or line-to-earth voltage exceeds 300 V, LVCTs must be installed on insulated conductors. The working voltage of the insulated conductor must not exceed 720 V line-to-neutral or line-to-earth. The placement of the RJ45 cables must follow the safety rules of the applicable local regulations, codes or standards.

10 Safety Instruction

Read these instructions carefully and look at the equipment to become familiar with the device before trying to install, operate, service or maintain it. The following special messages may appear throughout this bulletin or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.

The addition of either symbol to a “Danger” or “Warning” safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠ DANGER

DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serius injury.

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.

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