PowerLogic™ HDPM6000 Series CT Models for 75A and 125A Split and Solid-Core

For Use with the HDPM6000 Power Quality Metering System

Installation Guide

Z208150-0C
08/2021

schneider-electric.com

Safety Information

Important information

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 hazardous situation which, if not avoided, **will result in** death or serious injury.

⚠ WARNING

WARNING indicates a hazardous situation which, if not avoided, **could result in** death or serious injury.

⚠ CAUTION

CAUTION indicates a hazardous situation which, if not avoided, **could result in** minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to physical injury.

Please 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.

Safety Precautions

Installation, wiring, testing and service must be performed in accordance with all local and national electrical codes.

⚠ 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.
- This equipment must only be installed and serviced by qualified electrical personnel.
- Turn off all power supplying equipment before working on or inside the equipment.
- Product may use multiple voltage/power sources. Disconnect all sources of power before servicing.
- Always use a properly rated voltage sensing device to confirm power is off.
- Do not depend on this product for voltage indication.
- Current transformer secondaries must be shorted or connected to a burden at all times.
- Products rated for basic insulation must be installed on insulated conductors.
- Replace all doors, covers, and protective devices before powering the equipment.
- Install device in an appropriate electrical and fire enclosure per local regulations.
- This product is not intended for life or safety applications.

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

⚠ WARNING

RISK OF INJURY OR EQUIPMENT DAMAGE

Do not apply current transducers to circuits having a phase-to-phase voltage greater than their voltage rating unless adequate additional insulation is applied between the primary conductor and the current transducers.

Failure to follow these instructions may result in injury, fire, or equipment damage.

Schneider Electric assumes no responsibility for damage of equipment or personal injury caused by products operated on circuits above their published ratings.

Introduction

Schneider Electric PowerLogic HDPM6000S and Solid-Core Current Transducers (CTs) provide secondary voltage AC proportional to the primary (sensed) current. For use with the HDPM6000 platform only, these CTs provide a means to transform electrical service amperages to a voltage compatible with monitoring equipment.

Split-core models are available with 75A voltage ratings and solid-core models with 125A voltage ratings.

Ordering Information

Split-Core

Part Number	Description	Weight (lbs.)
METSEHDPM75A12	75A, SCCT, 12' lead	0.35
METSEHDPM75A30	75A, SCCT, 30' lead	0.71
METSEHDPM75A60	75A, SCCT, 60' lead	1.31
METSEHDPM75A4	75A, SCCT, HDPM6000S, 4" lead	0.13
METSEHDPM75A16	75A, SCCT, HDPM6000B, 16" lead	0.14

Solid-Core

Part Number	Description	Weight (lbs.)
METSEHDPM125A12	125A, SC, 12' lead	0.35
METSEHDPM125A30	125A, SC, 30' lead	0.71
METSEHDPM125A4	125A, SC, 4" lead, HDPM6000S	0.13
METSEHDPM125A10	125A, SC, 10" lead, HDPM6000S	0.13
METSEHDPM125A16	125A, SC, 16" lead, HDPM6000B	0.14

Specifications

Split-Core

Type	Description
Output at Rated Current	0.25 VAC
Accuracy	1%
Frequency Range	50/60 Hz
Leads	Black and white twisted pair, 18 AWG, AWM, UL1015, 600V, 105 °C
Max. Voltage L-N Sensed Conductor	600 VAC
Continuous Current Rating Factor	1
Insulation class	Class 105(A)
Operating Temperature Range	-40 to 55 °C (-40 to 131 °F)
Storage Temperature Range	-50 to 60 °C (-58 to 140 °F)
Humidity Range	0 to 95% non-condensing
Altitude of Operation	2000 m max.
Installation Category	Cat III, Pollution Degree 2
Agency Approvals	IEEE C57.13 CAN/CSA-C61869-1:14, CAN/CSA-C61869-2:14 CE

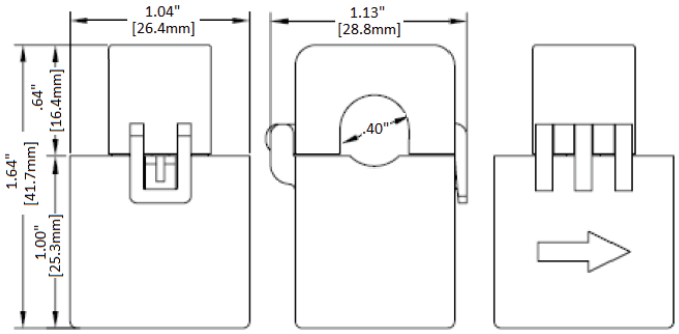
Specifications (cont.)

Solid-Core

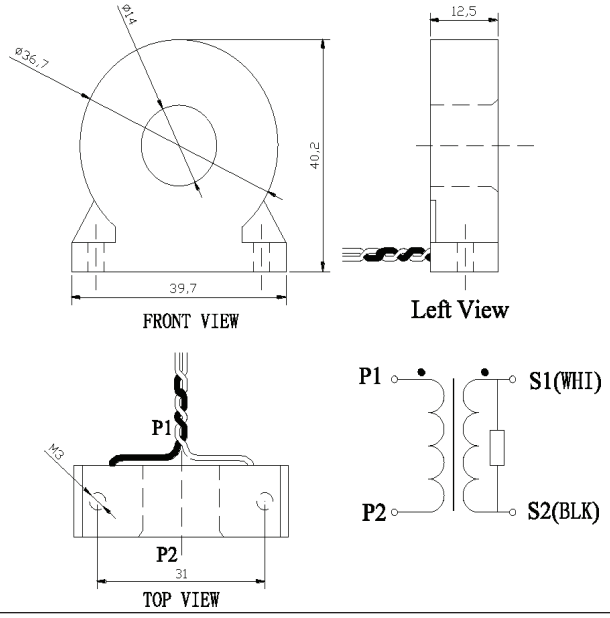
Type	Description
Output at Rated Current	0.25 VAC
Accuracy	0.1%
Frequency Range	50/60 Hz
Leads	Black and white twisted pair, 18 AWG, AWM, UL1015, 600V, 105°C
Max. Voltage L-N Sensed Conductor	600 VAC
Continuous Current Rating Factor	1
Insulation class	Class 105(A)
Operating Temperature Range	-40 to 85°C (-40 to 185°F)
Storage Temperature Range	-50 to 105°C (-58 to 221°F)
Humidity Range	0 to 95% non-condensing
Altitude of Operation	1000 m max.
Installation Category	Cat III, Pollution Degree 2
Agency Approvals	UL2808 CE

Dimensions

Split-Core



Solid-Core



Installation

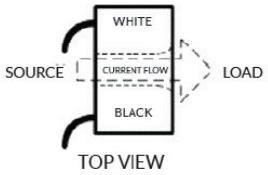
Installation must be performed by a qualified electrician. Turn off and lock out power to the primary circuit before installing these CTs. Use a properly rated voltage sensing device to confirm that power is off.

NOTICE
INCORRECT POLARITY Align CT arrow to point in the direction of the power flow. **Failure to follow this instruction can result in incorrect readings.**

Solid-Core Models

1. Turn off and lock out power to the primary circuit before installing CT.
2. Use a properly rated voltage sensing device to confirm that power is off.
3. Connect the transducer output leads to the meter inputs. Reference the wiring diagram from the installation guide for the appropriate module for details.
4. Route the primary conductor through the center of the CT and complete the conductor connections. A label on the product indicates the source side.

   All solid-core CT models should be oriented such that the wire leads face the source:

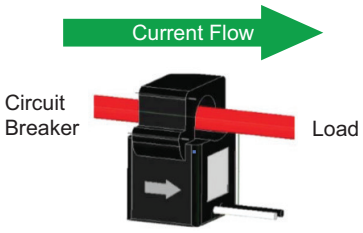


5. Reconnect power to the panel.

Installation (cont.)

Split-Core Models

1. Turn off and lock out power to the primary circuit before installing CT.
2. Use a properly rated voltage sensing device to confirm that power is off
3. Connect the transducer output leads to the meter inputs. The white wire is the x1 lead.
4. Release the clasp on one side of the CT and open it on the hinge. Check the core ends on both sections of the CT to ensure there is no rust or debris in the closure areas.
5. Wrap the CT around the primary lead. A label on the product indicates the source side. In the diagram below, the arrow indicates the current flow (i.e., the label faces away from the circuit breaker).



CTs may be simply hung on the wire on which they snap around. An alternative is the use of VELCRO® strips on the bottom or hinged side of the unit, to allow for ease of mounting and removal as necessary. VELCRO is non-conductive.

6. Close the CT until the clasp clicks into place to ensure that the contact surfaces are firmly seated.
7. Reconnect power to the panel.

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Z208150-0C 08/2021