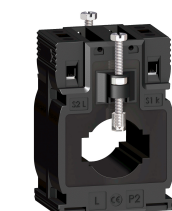


IEC Type 5 A Solid-core Current Transformer



METSECT5CCxxx



METSECT5MAxxx



METSECT5MCxxx



JPW061414-00

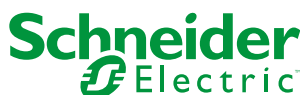
NOTE: Models of selected commercial references are shown here.

NOTE: Applicable only for the CT serial number starts with 26 and above (eg: 26xxxxxxxxxx).

NOTE: Do not use the product if it is damaged. Contact Schneider Electric customer care representative for support (www.se.com/support).



The CE and UKCA marking indicates RoHS compliance as per latest EU RoHS directive.



The IEC type 5 A solid-core Current Transformer (CT) delivers secondary current (I_s) of 0 to 5 A that is proportional to the current measured at the primary (I_p). The IEC type 5 A solid-core current transformer is used in combination with measurement equipments like Ammeters, Kilowatt-hour meters, Measurement units, Control relays.

The CT selection depends on the conductor profile and the maximum current of the primary circuit.

NOTE: Recommended to choose the CT ratio higher than the maximum load current.

1 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.
- This equipment must only be installed and serviced by qualified electrical personnel.
- Do not use the product if it is damaged.
- Turn off all power supplying equipment before working on or inside the equipment.
- Product may use multiple voltage/power sources. Disconnect ALL sources before servicing.
- Use a properly rated voltage sensing device to confirm that power is off. DO NOT depend on this product for voltage indication.
- Current transformer secondaries must be shorted or connected to a low burden while the primary conductor is energized.
- Products rated only for basic insulation must be installed on insulated conductors.
- Replace all doors, covers and protective devices before powering the equipment.
- This product must be installed inside a suitable fire and electrical enclosure.
- This product is not intended for life or safety applications.
- Use only the conductor size and torque values specified in the terminal details.
- Always use the supplied screw with the insulated cap for cable or busbar mounting.

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

⚠ WARNING

RISK OF INJURY OR EQUIPMENT DAMAGE

- Do not apply current transformers 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 transformers.
- Always open or disconnect circuit from power-distribution system (or service) of building before installing or servicing current transformers to reduce the risk of electric shock.
- The current transformers must not be installed in equipment where they exceed 75 percent of the wiring space of any cross-sectional area within the equipment.
- Restrict the installation of current transformers in an area where it would block ventilation openings.
- Restrict the installation of current transformer in area of breaker arc venting.
- Not suitable for Class 2 wiring methods and Not intended for connection to Class 2 equipment.
- Secure current transformer and route conductors so that they do not directly contact live terminals or bus (optional).

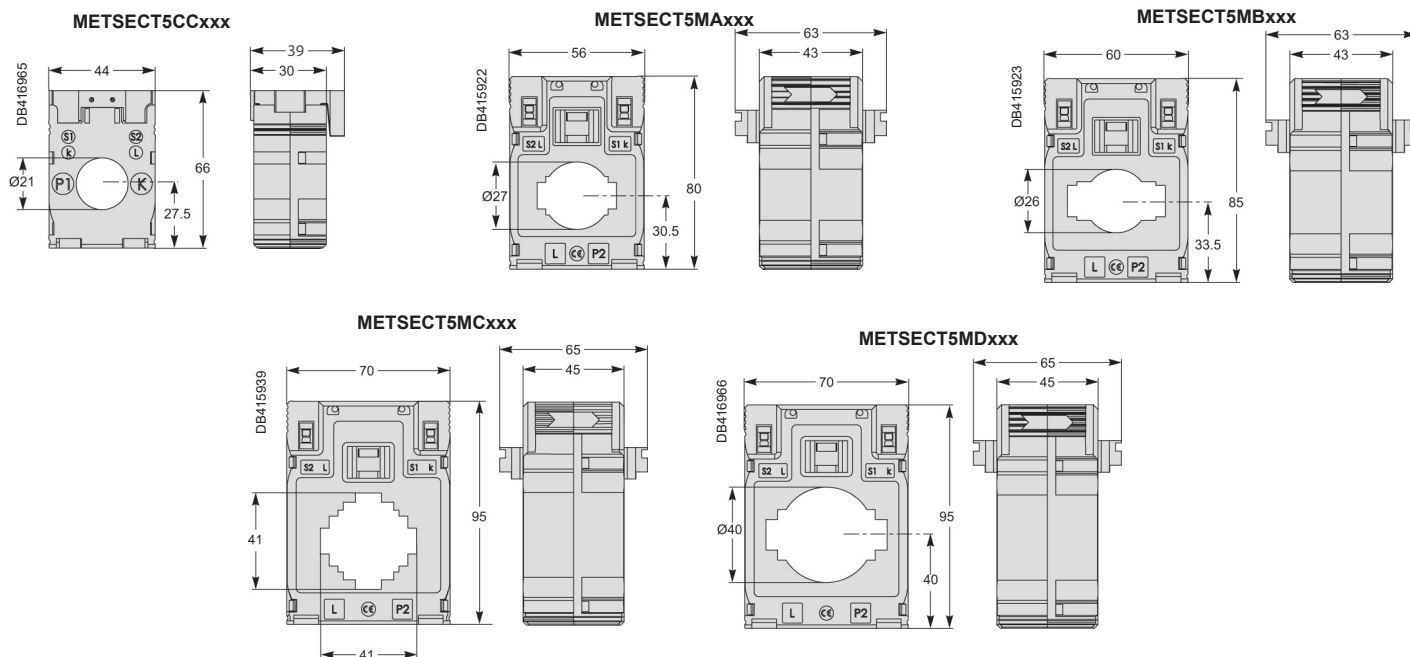
Failure to follow these instructions may result in injury, fire or equipment damage.

2 Dimensions

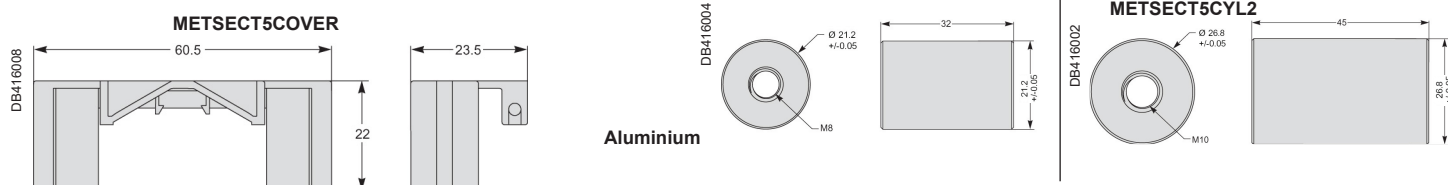
NOTE: All dimensions are in mm (For inch conversion: 1 inch = 25.4 mm).

NOTE: Refer to section 5 for detailed commercial reference information.

Solid-core CTs

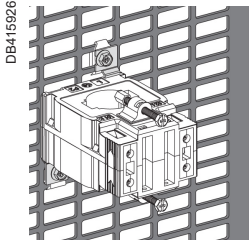


Solid-core CT accessories

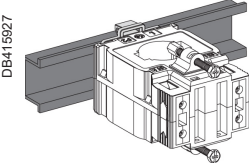


3 Mounting

Panel mounting



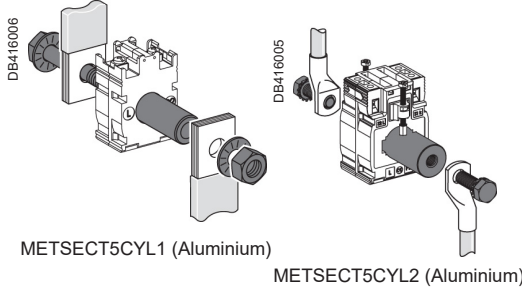
DIN rail mounting



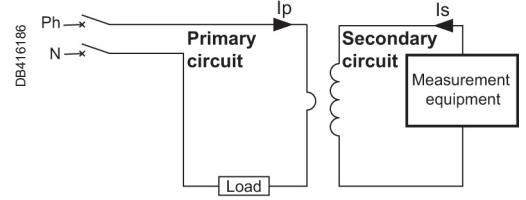
Specific mounting: use of cylinder

CTs with a primary connection using a screw and nut, use the cylindrical metallic spacer to ensure correct CT positioning when the conductor or CT cannot be mounted perpendicular. Secure the spacer with the supplied bolt and nut. Always use the screws with insulated caps as provided.

(example: use of cylinder with bar or cable)



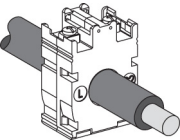
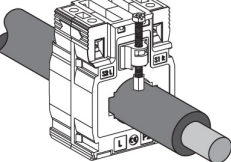
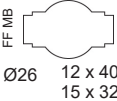
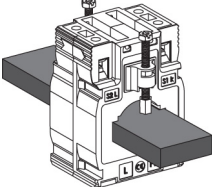
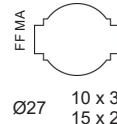
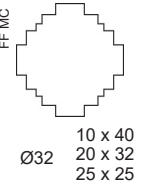
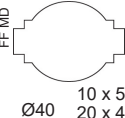
4 CT principle



When the primary circuit is energized, the measurement equipment acts as a short circuit which keeps the secondary voltage very low. This voltage increases significantly if the short circuit is removed.

NOTE: Always keep the secondary circuit connected to low impedance path or short the current signal terminals of the measuring instrument.

5 CT description

CT with let-through primary	CT internal type	Internal profile type and dimension in mm	Fastening mode	Ip/5 A rating (A)*	Accuracy class VA rating			CT Commercial reference	Accessories commercial reference	
					0.5	1	3		Cylinder	Sealable cover
Type C - solid-core CT (cable profile)										
	CC		• Adapter for DIN rails • Mounting plate	40	-	-	1	METSECT5CC004	METSECT5CYL1	Included
				50	-	1.25	1.5	METSECT5CC005		
				60	-	1.25	2	METSECT5CC006		
				75	-	1.5	2.5	METSECT5CC008		
				100	2	2.5	3.5	METSECT5CC010		
				125	2.5	3.5	4	METSECT5CC013		
				150	3	4	5	METSECT5CC015		
				200	4	5.5	6	METSECT5CC020		
				250	5	6	7	METSECT5CC025		
Type M - solid-core CT (mixed: cable/bar profile)										
	MB		• Adapter for DIN rails • Mounting plate	250	3	4	-	METSECT5MB025	-	METSECT5COVER
				300	4	6	-	METSECT5MB030		
				400	6	8	-	METSECT5MB040		
		MA			150	3	5	-	METSECT5MA015	METSECT5CYL2
				200	4	7	-	METSECT5MA020		
				250	6	8	-	METSECT5MA025		
				300	8	10	-	METSECT5MA030		
	MC			400	10	12	-	METSECT5MA040		METSECT5COVER
				250	3	5	-	METSECT5MC025		
				300	5	8	-	METSECT5MC030		
				400	8	10	-	METSECT5MC040		
	MD			500	10	12	-	METSECT5MC050		METSECT5COVER
				600	12	15	-	METSECT5MC060		
				800	10	12	-	METSECT5MC080		
				500	5	7.5	-	METSECT5MD050		
				600	7.5	10	-	METSECT5MD060	-	METSECT5COVER
				800	10	12.5	-	METSECT5MD080		

* Maximum rated current (Imax) is 1.2 times of the primary current (Ip).

** Two pairs of secondary connectors are provided (parallel internal wiring - only one secondary winding) for easier cable access. One lateral and one on extremity.

NOTE: Only one pair of secondary connector must be used at a time.

6 Installation

1. Turn off and lock out power to the primary circuit before installing the CT.
2. Use a properly rated voltage sensing device to confirm that power is off.
3. Connect the secondary output terminals of the CT to the respective current input terminals of the measuring instruments. Follow local / IEC guidelines on looping S2 terminals at CT, instruments and connect through the CT shorting block.
4. Route the primary conductor through the center of the CT and complete the conductor connections. Ensure that the direction of the primary conductor follows the polarity markings indicated on the CT.
5. Reconnect power and follow the installation guidelines for energizing the panel.

7 Terminal details

Primary terminals:

- Recommended tightening torque: 0.6 Nm

Secondary terminals:

- Maximum conductor size: 6 mm² (10 AWG)
- Recommended conductor size: 1.5 mm² (16 AWG)
- Recommended tightening Torque: 0.8 Nm to 1.0 Nm
- M model 4 Screw terminal +2 faston terminal 4.75 x 0.8mm

8 Specifications

- Secondary current Is (A): 5 A
- Accuracy class: 0.5 / 1 / 3
- Maximum voltage rating Ue (V): 720 V
- Frequency: 50 / 60 Hz (Range: 47 - 63 Hz)
- Instrument security / Safety factor (sf): ≤5
- Rated short time thermal current: 85 times the Ip current for 1 second (max 85 kA)
- Dielectric strength test: 3 kV, 50 Hz for one minute
- Rated dynamic current (Idyn): 2.5 Ith
- Degree of protection: IP20
- Operating temperature:
 - 25 to +70 °C (-13 to +158 °F)
- Storage temperature: -40 to +85 °C (-40 to +185 °F)
- 5% to 95% RH non-condensing
- Standard compliance: IEC 61869-1:2007, IEC61869-2:2012
- Altitude of Operation: 3000 m (9843 ft)
- Pollution degree 2
- Insulation class: B
- Installation category III
- For indoor use only
- Secondary connection:
 - by terminals for lug or by tunnel terminals or by screws

China ROHS Certificate

The "Administrative Measures for the Restriction of Hazardous Substances in Electric Appliance and Electronic Products" requires this document to be shipped with all IEC Type 5 A Solid-core Current Transformer products to the People's Republic of China. Purchasers in other countries may disregard.

Les "Administrative Measures for the Restriction of Hazardous Substances in Electric Appliances and Electronic Products" exige que ce document soit transporté avec tous les produits de IEC Type 5 A Solid-core Current Transformer en République Populaire de Chine. Les acheteurs des autres pays peuvent le négliger.

Las "Administrative Measures for the Restriction of Hazardous Substances in Electric Appliances and Electronic Products" requiere que este documento sea enviado con todos los productos IEC Type 5 A Solid-core Current Transformer a la República Popular de China. Los usuarios en otros países pueden ignorar este documento.

Product/ Produit/ Producto: IEC Type 5 A Solid-core Current Transformer

产品系列: 电力量度器仪及配件



部件名称 / Part Name	产品中有毒有害物质或元素的名称及含量 / Hazardous Substances					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
金属部件 / Metal parts	O	O	O	O	O	O
塑料部件 / Plastic parts	O	O	O	O	O	O
电子线路板 / PCBA	O	O	O	O	O	O

本表格依据SJ/T11364的规定编制。

O = 表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T11363-2006 标准规定的限量要求以下。

X = 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006标准规定的限量要求。

This table is made according to SJ/T 11364.

O: indicates that the concentration of hazardous substance in all of the homogeneous materials for this part is below the limit as stipulated in GB/T 26572.

X: indicates that concentration of hazardous substance in at least one of the homogeneous materials used for this part is above the limit as stipulated in GB/T 26572.

Notices

Read these instructions carefully and look at the equipment to become familiar with the device before trying to install, operate, service or maintain it.

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.

Schneider Electric is the trademark or registered trademark of Schneider Electric in France, the USA and other countries.

- This product must be installed, connected and used in compliance with prevailing standards and/or installation regulations.
- If this product is used in a manner not specified by the manufacturer, the protection provided by the product may be impaired.
- The safety of any system incorporating this product is the responsibility of the assembler/installer of the system.

As standards, specifications and designs change from time to time, always ask for confirmation of the information given in this publication.

