IEC Type 5 A Solid-core Current Transformer







METSECT5XYxxx

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



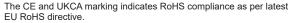
DB41



NOTE: Models of selected commercial references are shown here.









The IEC type 5 A solid-core Current Transformer (CT) delivers secondary current (Is) of 0 to 5 A that is proportional to the current measured at the primary (Ip). 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 intensity of the primary circuit.

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

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. 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.
- product for voltage indication.
 Current transformer secondaries must be shorted or connected to a low burden at all times.
 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.

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 of 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.

DB41

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.

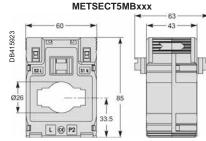
Dimensions

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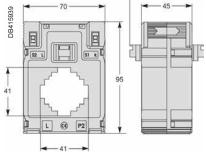
NOTE: All dimensions are in mm (For inch conversion: 1 inch = 25.4 mm).

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

Solid-core CTs

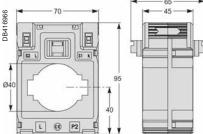


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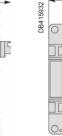
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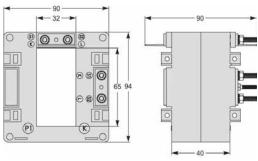
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DB4



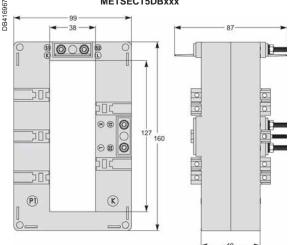


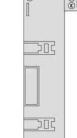


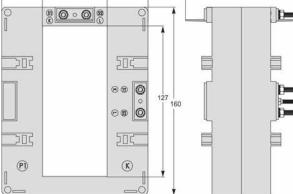
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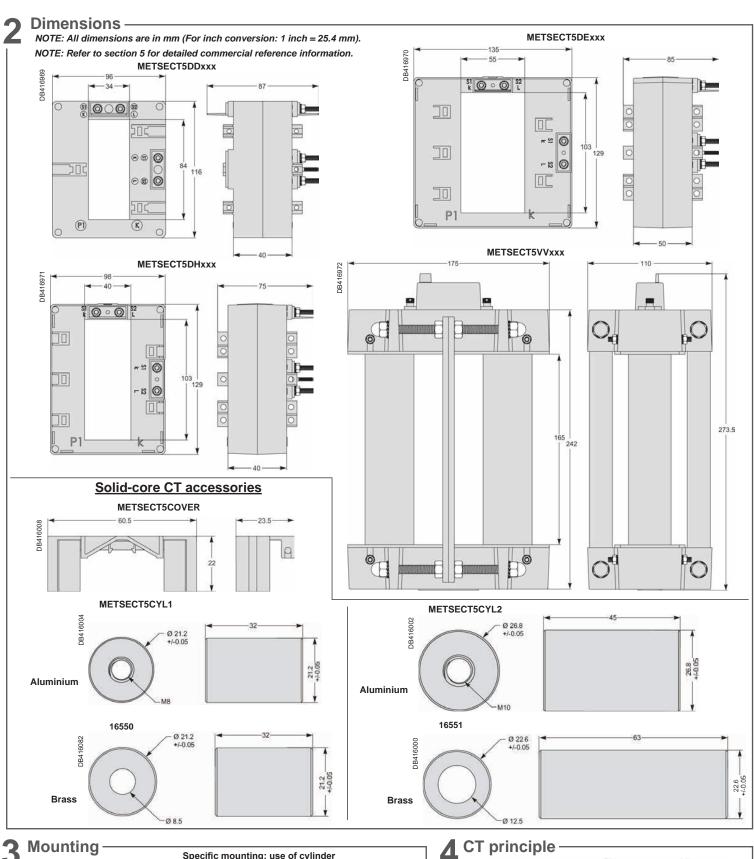
METSECT5MAxxx

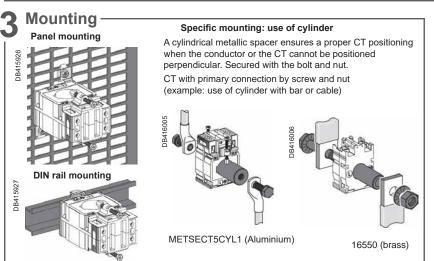
METSECT5DCxxx

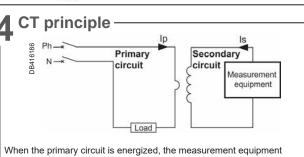












When the primary circuit is energized, the measurement equipment acts as a short circuit which keeps the secondary voltage very low. This voltage increases significantly if the short circuit is removed.

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

CT with let through primary	CT	Internal profile	Fastening	Ip/5 A			ss VA	CT Commercial	Accessories commercial reference	
CT with let-through primary	internal type	type and dimension in mm	mode	rating (A)*	0.5	1	3	reference	Cylinder	Sealable cover
Type C - solid-core CT (cable p	rofile)									
				40	-	-	1	METSECT5CC004		
2 ~9 &				50	-	1.25	1.5	METSECT5CC005		
				60	-	1.25	2	METSECT5CC006		
2		8	Adapter for	75	-	1.5	2.5	METSECT5CC008		
	СС	F ()	DIN rails • Mounting	100	2	2.5	3.5	METSECT5CC010	METSECT5CYL1	Included
		Ø21	plate	125	2.5	3.5	4	METSECT5CC013		
		921		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)								
		FF MB		250	3	4	-	METSECT5MB025		
	MB			300	4	6	-	METSECT5MB030	-	METSECT5COVE
		Ø26 12 x 40 15 x 32		400	6	8	-	METSECT5MB040		
				150	3	5	-	METSECT5MA015		
		AM T		200	4	7	-	METSECT5MA020	METSECT5CYL2	METSECT5COVE
	MA	- L		250	6	8	-	METSECT5MA025		
100		727 10 x 32		300	8	10		METSECT5MA030		
		Ø27 10 x 32 15 x 25		400	10	12	_	METSECT5MA040		
			 Adapter for DIN rails 	250	3	5		METSECT5MC025		
		# \	Mounting	300	5	8		METSECT5MC029	-	METSECT5COVE
] []	plate	400	8	10	_			
	MC							METSECT5MC040		
		10 x 40		500	10	12	-	METSECT5MC050		
		Ø32 20 x 32 25 x 25		600	12	15	-	METSECT5MC060		
EL CO				800	10	12	-	METSECT5MC080		
19		₩.		500	4	6	-	METSECT5MD050		
	MD	"		600	6	8	-	METSECT5MD060	-	METSECT5COVE
		10 x 50		800	10	12	-	METSECT5MD080		
Type D** - solid-core CT (vertication	al or boriz	Ø40 20 x 40	ndary tarminals	\						
Type D - Solid-Core CT (Vertical	ai 0i 110112	ontai bai - duai seco	luary terminais	400	4	8	_	METSECT5DA040		
		32 x 65			8	10			-	Included
				500	8			METSECTEDAGE		
•	D.4		Insulated locking screw	600		12		METSECT5DA060		
Roge	DA			800	12	15	-	METSECT5DA080		
	DB			1000	15	20	-	METSECT5DA100		
				1250	15	20	-	METSECT5DA125		
				1500	20	25	-	METSECT5DA150		
				1000	6	10	-	METSECT5DB100		
k a				1250	8	12	-	METSECT5DB125		
PI				1500	10	15	-	METSECT5DB150		
		38 x 127	screw	2000	15	20	-	METSECT5DB200		
				2500	20	25	-	METSECT5DB250		
				3000	25	30	-	METSECT5DB300		
		0		2000	25	30	-	METSECT5DC200		
DB415587	DC	出	Insulated locking screw	2500	30	50	-	METSECT5DC250	-	Included
				3000	30	50	-	METSECT5DC300		
		52 x 127		4000	30	50	-	METSECT5DC400		
	DD	# D	Insulated locking screw	1000	10	15	-	METSECT5DD100	-	Included
				1250	12	15	-	METSECT5DD125		
		34 × 84		1500	15	20	-	METSECT5DD150		
P				1000	12	15	-	METSECT5DE100		
P			Insulated	1250	15	20	-	METSECT5DE125		
		世	locking						-	Included
	DE		locking	1500	20	25	-	METSECT5DE150		
	DE			1500	20	25 25		METSECT5DE150		
	DE	54 x 102	locking	2000	20	25	-	METSECT5DE200		
	DE		locking							Included

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^{*} 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.

CT description

	CT with let-through primary	CT internal	Internal profile type and	Fastening	lp/5 A rating	Accuracy class VA rating			CT Commercial	Accessories commercial reference	
5000 60 METSECT5VV500 Insulated locking screw - Included		type	dimension in mm	mode	(A)*	0.5 1 3		reference	Cylinder	Sealable cover	
VV Insulated locking screw Included	Type V - solid-core CT (vertical ba	ar profile)									
Screw Screw	DB415989	10/	FF V2		5000	60	-	-	METSECT5VV500		lands and
		VV	55 x 165		6000	70	-	-	METSECT5VV600	-	included

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 is in line with the indication given on the CT.
- 6. Reconnect power and follow the installation guidelines for energizing the panel.

Specifications -

- Secondary current Is (A): 5 A
- Maximum voltage rating Ue (V): 720 V
- Frequency: 50 / 60 Hz (Range: 47 63 Hz)
- Instrument security / Safety factor (sf): 40 to 4000 A: <5 **5000 to 6000** A: ≤10
- Rated short time thermal current: 60 times the Ip current for 1 second (max 60 kA)
- Dielectric strength test: 3 kV, 50 Hz for one minute
- Rated dynamic current (Idyn): 2.5 Ith
- Degree of protection: IP20
- Operating temperature:

For Ip up to 1000 A: -25 to +60 °C (-13 to +140 °F) For Ip from 1250 A to 6000 A: -25 to +50 °C (-13 to +122 °F) • For indoor use only

- Storage temperature: -40 to +85 °C (-40 to +185 °F)
- 5% to 95% RH non-condensing

- Standard compliance: IEC 61869-2, VDE 0414
- Altitude of Operation: 3000 m (9843 ft)
- Pollution degree 2
- . Insulation class: B
- Installation category III
- · 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/ 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	0	0	0	0	0	0				
塑料部件 / Plastic parts	0	0	0	0	0	0				
电子线路板 / PCBA	X	0	0	0	0	0				

- 一 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 SF-E-Hall Hoto = 2011383-2006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.

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- •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.

Schneider Electric

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