SCT-650D Switchgear Current Transformer

Applications

Switchgear Current Transformers (SCTs) can be used for measuring, revenue metering and protection applications inside of both switchgear and medium voltage breaker apparatus. Peak Demand SCTs are designed and manufactured in accordance with customer specifications and industry standards.

Construction

The core is constructed from wound layers of electrical grade steel. The core is wrapped with insulation to protect the windings from damage. Cores are wound with enamel coated copper wire to ensure against potential short circuits. The core and coil assembly is insulated with a polycarbonate plastic case to provide for long life in indoor environments. Secondary terminals are brass #10-32 screws with a flat washer, lock washer and regular nut. The “D” version provides a higher level of relay burden and accuracy.

Test Reports

Each SCT has a unique serial number which allows the customer to track each test record. Certified test reports and curves are stored electronically and provided with every shipment.

Specifications

Insulation: 600V, BIL 10kV
Frequency: 60 Hz (50Hz available)
Mechanical rating: 180 x rated current
Thermal rating: 80 x rated current, one second
Standards: IEEE C57.13 (others upon request)
UL Listed File #E492538

Compatible Medium Voltage Breakers

All Eaton VCP Styles; GE Power/Vac; Square D Type FG-2

Cross Reference

GE ITI 785, 786; Amran CT103, CT104; ABB SCV-D

The Peak Demand Advantage

- Stocking available for just in time delivery.
- Designed and engineered to meet customer specifications.
- Fast turn-around time for custom quotations.
- Local and overseas manufacturing capability to meet price and lead time needs. Flexible production process to manufacture a wide range of sizes and shapes of SCTs.
- Friendly team of industry veterans with decades of experience serving OEM customers.

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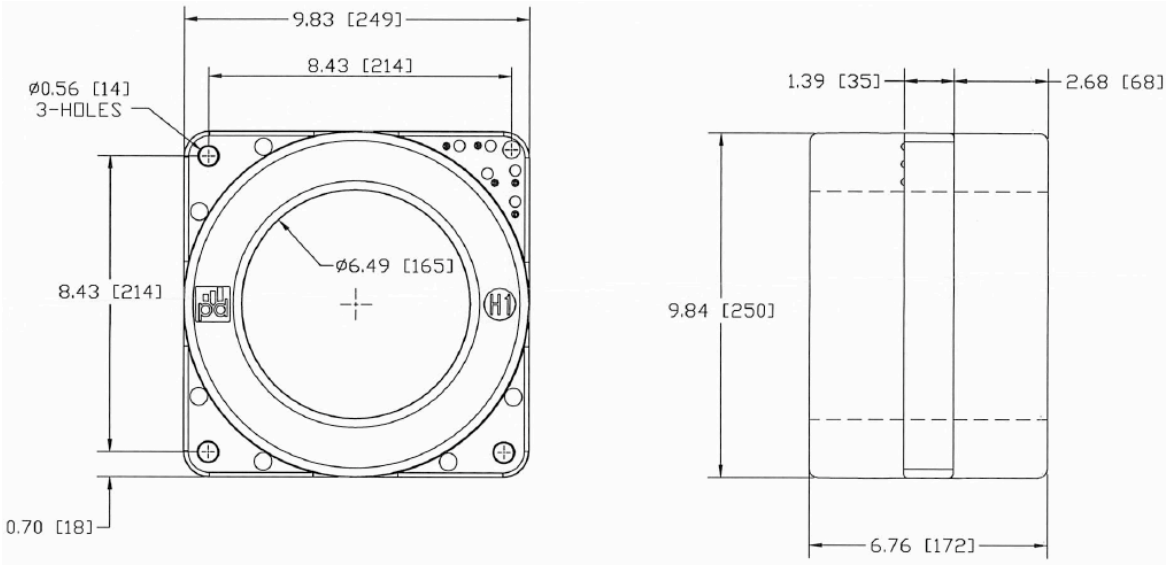
peakdemand™ utility products

Dimensions



(Metric dimensions displayed in [mm])

Selection Guide

Part Number	Primary Rating	IEEE Metering Accuracy					Relay Accuracy	Rating Factor	
		0.1	0.2	0.5	0.9	1.8		30° C	55° C
SCT650D0100R	100	0.6	1.2	2.4			C20	2.0	1.5
SCT650D0200R	200	0.3	0.3	0.6	1.2	2.4	C50	2.0	1.5
SCT650D0400R	400	0.3	0.3	0.3	0.6	0.6	C100	2.0	1.5
SCT650D0500R	500	0.3	0.3	0.3	0.3	0.6	C100	2.0	1.5
SCT650D0600R	600	0.3	0.3	0.3	0.3	0.6	C200	2.0	1.5
SCT650D0800R	800	0.3	0.3	0.3	0.3	0.3	C200	2.0	1.5
SCT650D1000R	1000	0.3	0.3	0.3	0.3	0.3	C200	2.0	1.5
SCT650D1200R	1200	0.3	0.3	0.3	0.3	0.3	C400	2.0	1.5
SCT650D1500R	1500	0.3	0.3	0.3	0.3	0.3	C400	2.0	1.5
SCT650D2000R	2000	0.3	0.3	0.3	0.3	0.3	C400	2.0	1.5
SCT650D3000R	3000	0.3	0.3	0.3	0.3	0.3	C400	2.0	1.5
SCT650D4000R	4000	0.3	0.3	0.3	0.3	0.3	C400	1.33	1.0

Notes

Approximate weight 60 lbs.
For multi-ratio units add -MR to the part number.
Up to five (5) terminal connections are available for Multi Ratio units.
Other ratios available upon request.

Peak Demand Inc. strives to keep the information in this document current and accurate. Please contact Peak Demand if there is any question as to the accuracy or completeness of the information contained in this document. Proper product selection and product application is the sole responsibility of the purchaser. Peak Demand reserves the right to discontinue any product or service at any time.

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