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CURRENT SENSORS FOR INDUSTRIAL APPLICATIONS

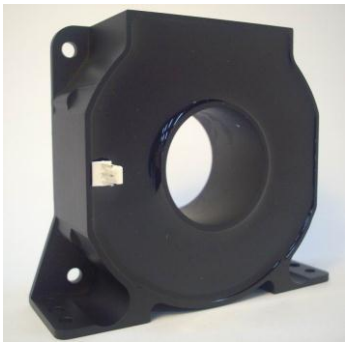
Model MCHT-1000B CLOSED LOOP METHOD

General

●Hall effect accurate measurement for DC/AC/Pulsed current.

●For the use of UPS, SMPS, servo motor drivers, static DC motor drivers, etc.

●High Accuracy and High Current Measurement for the industrial use.

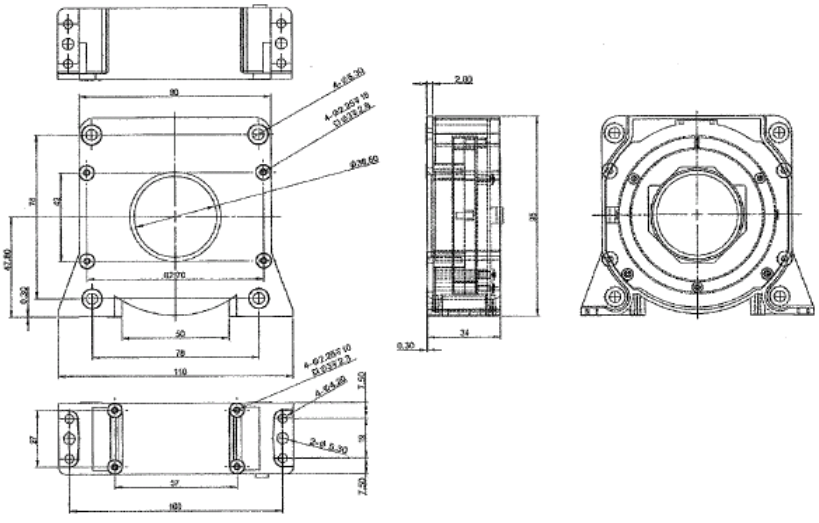


Nominal Primary Current	: 1000A
Measuring Range	: 0~±1500A (at ±24V power supply)
Power Supply Voltage(±5%)	: ±15V~±24V
Secondary Nominal Current	: 200mA (rms)
Current Consumption	: approx. 350mA (at 1000A)
Conversion Ratio	: 1:5000
Accuracy (at 25℃)	: ±0.4% of Nominal Primary Current
Response Time	: @90% of IPN < 1 μs
Operating Temperature	: -40℃~+85℃
Storage Temperature	: -45℃~+100℃
Output Connector	: Molex 6410
Weight	: approx. 520 gs.

Other Specification

Measuring Resistance@		at 70℃		at 85℃	
Power Supply Voltage	Measuring Range	R min.	R max.	R min.	R max.
±15V	@±1000A max.	0	18Ω	0	15Ω
	@±1200A max.	0	7Ω	0	4Ω
±24V	@±1000A max.	5	60.5Ω	10	57.5Ω
	@±1500A max.	5	24Ω	10	21Ω

Temperature Drift	Typical	Max.
-10℃～+85℃	±0.3mA	±0.5mA
-40℃～-10℃	±0.3mA	±0.8mA

Safety Standard: EN50178 and IEC61010-1 (RoHS Compliant)

Dimension and Drawing