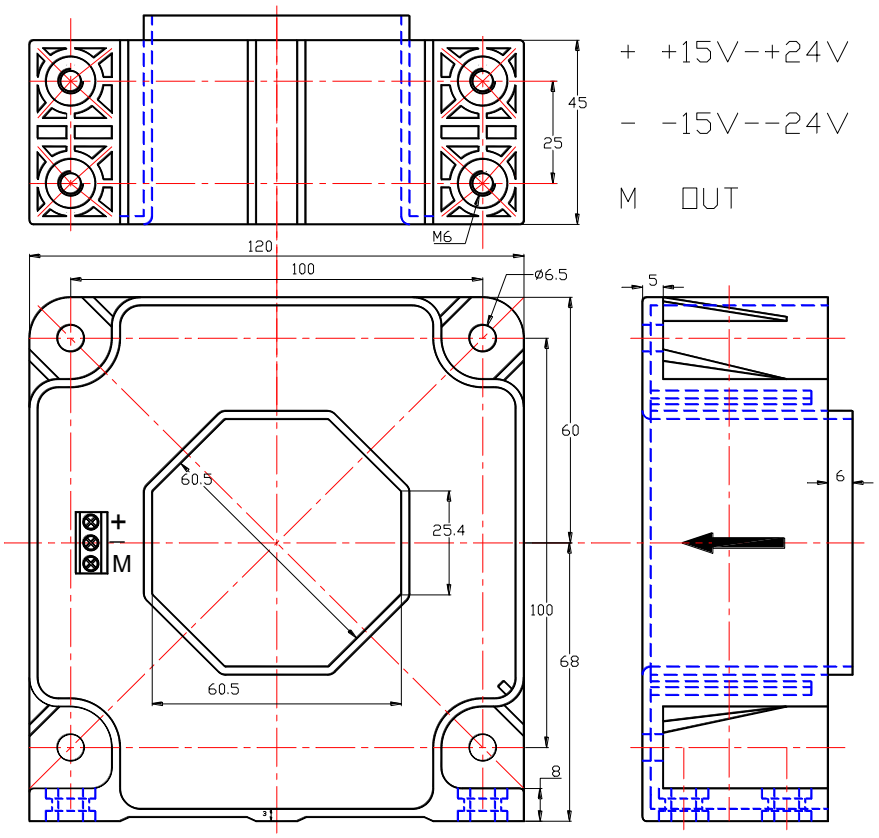
HCT-2000LF SERIES HALL EFFECT CURRENT SENSOR CLOSED LOOP

NOTES

1.- DIMENSIONS AND PINS CONFIGURATION



All dimensions are in mm.
General Tolerance ± 0.5 mm.
All dimensions and mechanical fixations are subjected to change depending on the customer necessities and PREMO Transducer Development.

NOTES

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2.- ELECTRICAL PARAMETERS

Primary Nominal Current	20-2000 A RMS	Ipn
Measuring Range (10Ω, ±18V)	3000 A DC	Ip
Galvanic isolation (50 Hz, 1min)	6 KV	
Turns ratio	1:5000	
Supply Voltage	±15 ~ ±24V	Vcc
Rated output (mA)	4(20A) - 400(2000A) ±0.2%	Is
Measure resister	With ± 15 Vcc Ip ± 2000 : 5.0 Ohm MAX Ip ± 2500 : 2.0 Ohm MAX With ± 24 Vcc Ip ± 2000 : 25 Ohm MAX Ip ± 3000 : 5.0 Ohm MAX	
Current consumption (Is=0)	Is+35 mA	Icc

3.- ACCURACY

Linear Error	≤ 0.1 % Full Scale	e_{LLR}
Offset Drift Curent	±0.2 mA	
Offset Current Temp Drift (-40°C~85°C)	±0.5 mA/°C	KI_{OS}
Response Time (di/dt>100 A/µS)	<1µs	T_R
Frequency Bandwidth	DC to 150kHz (-3dB)	**Fc**

- * Electrical Parameters and frequency response to be checked with samples.

4.- OUTPUT CONNECTOR

Connection	M2. 5x6. 0	
Maximum Primary Conductor Temperature	120ºC	
Secondary coilresister	28 Ω	

5.- GENERAL DATA

Operating Temperature	-40 to +85 °C	**T_A**
Storage Temperature	-40 to +125 °C	**T_S**

NOTES

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6.- EDITION CONTROL

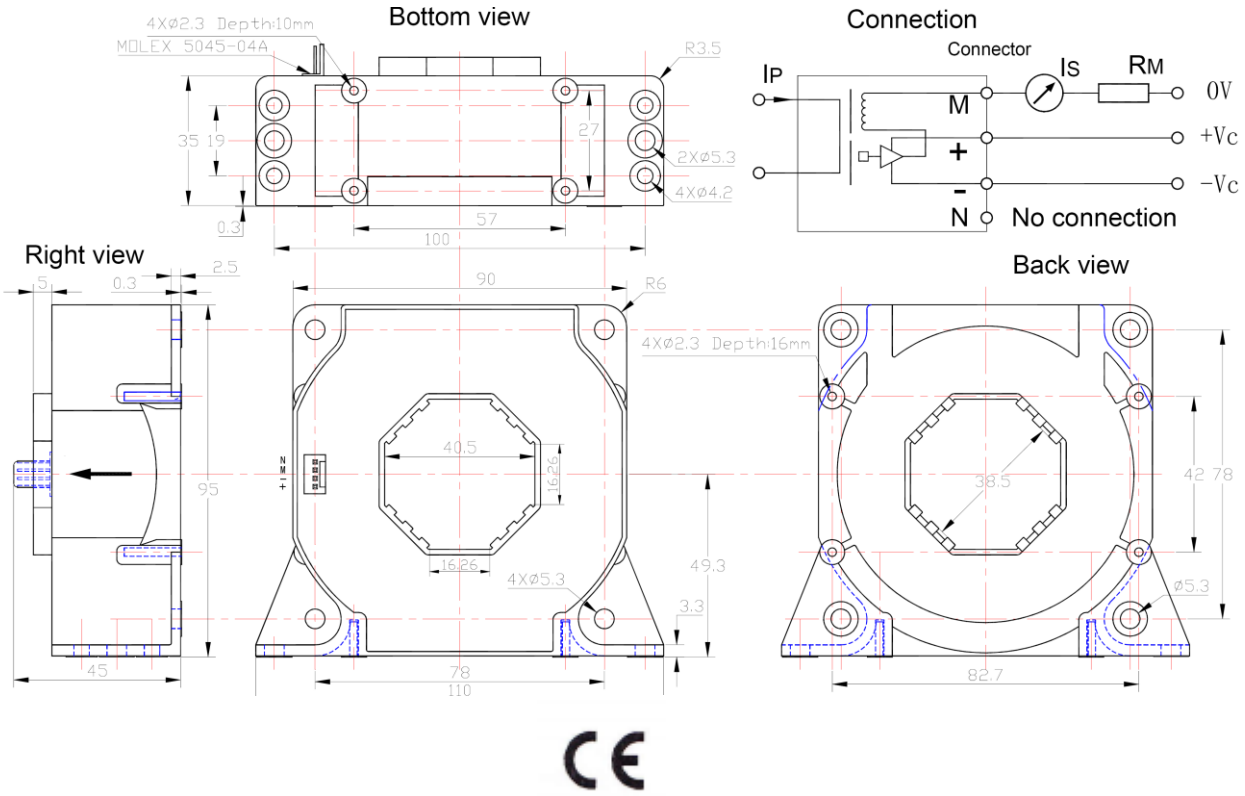
Edition	Date	Change description	Made by
1st	09/09/10	First Edition	Marta Escolar

NOTES

CLOSE LOOP HCT 10-1000A 1:5000

NOTES

1.- DIMENSIONS



All dimensions are in mm.
General Tolerance according to ISO2768-C.
All dimensions and mechanical fixations are subjected to change depending on the customer necessities and PREMO Transducer Development.

NOTES

2.- ELECTRICAL PARAMETERS

Rated Current	10-1000 A	
Measuring Range	2000A	**Ip**
Rated output current	2±0.1% Fs mA(10A) 200±0.1% Fs mA(1000A)	**Is**
Turns Ratio	1:5000	**N**
Supply Voltage	± 15~±24V	**Vcc**
Secondary coilresistance (T = 70°C)	50 Ω	**Rc**
Burden Resistor RangeT = 25°C	0-20ohm (with ±15V @±1000A max)	
	0-7.5ohm (with ±15V @±1200A max)	
	0-65ohm (with ±24V @±1000A max)	
	0-7.5ohm (with ±24V @±2000A max)	

3.- ACCURACY

Linear Error (Full Scale)	≤0.05 %FS	e_{LLR}
Response time	<1us	
Offset drift Current	± 0.2mA	I_{OS}
Offset Current temp -40℃-85℃ Drift	± 0.5 mA	KI_{OS}
di/dt Followed Accurately	> 100A/us	
Frequency Bandwidth	DC to 150kHz(-3dB)	F_C

4.- GENERAL DATA

Operating Temperature	-40 to +85 °C	**T_A**
Storage Temperature	-40 to +125 °C	**T_S**

5.- ISOLATION CHARACTERISTICS

Galvanic isolation (50 Hz, 1min)	6KV	V_I

STANDARDS

- Isolated plastic case recognized according to UL94-V0.
- EN60947-1: 2004
- IEC60950-1 : 2001
- EN-50178:1998

CE

NOTES

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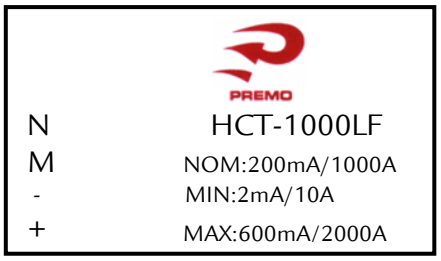
6.- Marking



7.- EDITION CONTROL

Edition	Date	Change description	Made by
1st	24/01/10	First Edition	Maria

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