	CUSTOMER	CUS	TOMER COD	ÞΕ	PART DESCRIPTION HALL EFFECT CURRENT SENSOR CLOSED LOOP 2000A			
	INTERNAL COD HCT-LF	Έ	DATE 24-01-11	EDITI 1	ON	DOCUMENT NAME HCT-LF 1.doc	PAGE 1/8	
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HCT-2000LF SERIES HALL EFFECT CURRENT SENSOR CLOSED LOOP

	CUSTOMER	CUS	TOMER COD	ÞΕ	PART DESCRIPTION HALL EFFECT CURRENT SENSOR CLOSED LOOP 2000A		
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0			24-01-11	1		HCT-LF_1.doc	1/0

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.

	CUSTOMER	CUS	TOMER COD	ÞΕ	PART HALL 2000A	T DESCRIPTION EFFECT CURRENT SENSOR CLO	DSED LOOP
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2.- ELECTRICAL PARAMETERS

Primary Nominal Current	20-2000 A RMS	lpn
Measuring Range (10 Ω , ±18V)	3000 A DC	lp
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%	ls
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)	ls+35 mA	lcc

3.- ACCURACY

Linear Error	\leq 0.1 % Full Scale	e llr
Offset Drift Curent	±0.2 mA	
Offset Current Temp Drift (-40°C~85°C)	±0.5 mA/°C	Klos
Response Time (di/dt>100 A/µS)	<1µs	Tr
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	ΤΑ
Storage Temperature	-40 to +125 °C	Ts

NOTES

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6.- EDITION CONTROL

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

NOTES

CUSTOMER	CUS	TOMER COD	E PART DESCRIPTION HALL EFFECT CURRENT SENSOR CLOSED LOOP 2000A			
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CLOSE LOOP HCT 10-1000A 1:5000

NOTES

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		INTERNAL CODI HCT-LF	Ξ	DATE 24-01-11	EDITI 1	ON	DOCUMENT NAME HCT-LF_1.doc	PAGE 1/8	

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.

C	CUSTOMER	CUS	FOMER CODE		PART DESCRIPTION HALL EFFECT CURRENT SENSOR CLOSED LOOP 2000A		
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2.- ELECTRICAL PARAMETERS

Rated Current	10-1000 A	
Measuring Range	2000A	lp
Rated output current	2±0.1% Fs mA(10A) 200±0.1% Fs mA(1000A)	ls
Turns Ratio	1:5000	Ν
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	los
Offset Current temp -40℃-85℃ Drift	± 0.5 mA	Klos
di/dt Followed Accurately	> 100A/us	
Frequency Bandwidth	DC to 150kHz(-3dB)	Fc

4.- GENERAL DATA

Operating Temperature	-40 to +85 °C	ΤΑ
Storage Temperature	-40 to +125 °C	Ts

5.- ISOLATION CHARACTERISTICS

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

STANDARDS

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

NOTES

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6.- Marking

	PREMO
Ν	HCT-1000LF
M -	NOM:200mA/1000A MIN:2mA/10A
+	MAX:600mA/2000A

7.- EDITION CONTROL

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