



HCT-300LTP

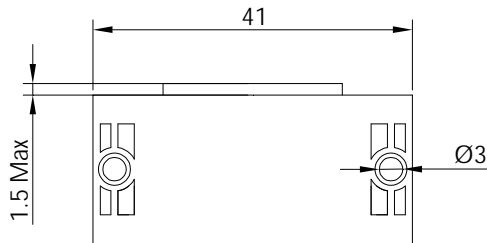
RoHS
2002/95/EC

Technical Specification

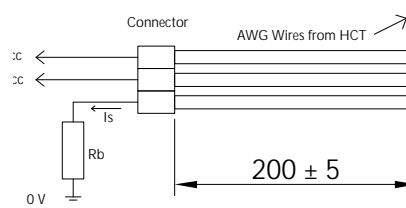
HALL EFFECT CURRENT TRANSDUCER 900 A PEAK.
HCT-300LPT

Edition	Changed by	Date	Change description
1 st	V.Repecho	06/11/09	First edition
2 nd	V.Repecho	06/11/09	Secondary compensate winding turns change to 2000
3 th	V.Repecho	06/11/09	AWG wire connector include on the dimensions info.

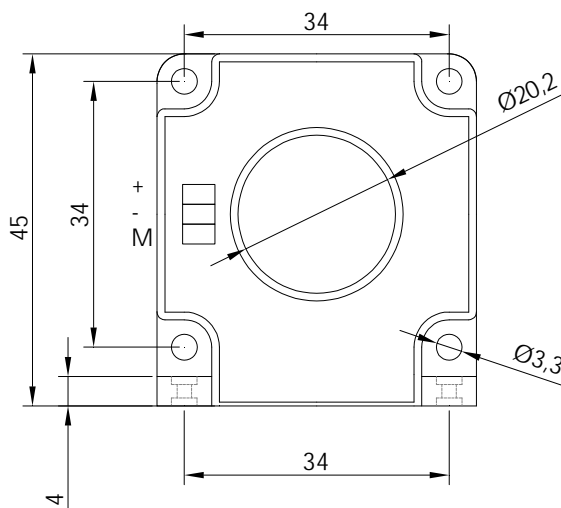
1. Dimensions



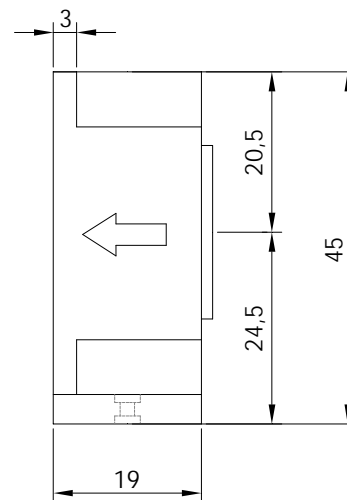
Bottom View



Connection of the
Transducer (Front view)



Front View



Side view

Notes.

- General Tolerance ± 0.5 mm
- Vertical Fastening of Transducer 4 Holes of $\text{Ø}4$ mm. M4 Screw. DIN84 Recommended.
- Horizontal Fastening of Transducer 4 Holes of $\text{Ø}6$ mm. M6 Screw. DIN84 Recommended.
- Primary Cables . Bus bar of 42.3×19.3 or $\text{Ø} 40.5$ mm.
- Connection 4 AWG14 Wires UL1015. +VCC = RED, -VCC = Brown; 0 = Black; I OUT = Blue.
- All dimensions and mechanical fixations are subjected to change depending on the customer necessities and PREMO Transducer Development.



HCT-300LTP

2. Electrical Parameters



Primary Nominal Current	300 A RMS	I_{pn}
Measuring Range $\pm 18 V_{in}$	$\pm 900 A DC (1 \Omega)$	I_p
Burden Resistor Range $T = 25^\circ C$	With $\pm 12 V_{cc}$ $I_p \pm 300:$ 42 Ohm MAX 0 Ohm MIN $I_p \pm 500:$ 10 Ohm MAX 0 Ohm MIN With $\pm 15 V_{cc}$ $I_p \pm 300:$ 60 Ohm MAX 0 Ohm MIN $I_p \pm 500:$ 20 Ohm MAX 0 Ohm MIN	R_B
Secondary Nominal Current	150 mA RMS	I_s
Conversion Ratio	1:2000	N
Supply Voltage ($\pm 10 \%$)	$\pm 12..18 V$	V_{cc}
Current Consumption	$20 mA + I_s (V_{cc} = \pm 12 V)$	I_{cc}

3. Accuracy

Accuracy at $I_p T = 25^\circ C$	$< \pm 0.5 \%$	a
Linear Error ($I_p > 200 A$) $V_{cc} = \pm 24V, R_b = 3 \text{ Ohm}$	$< 0.1 \%$	e_{LLR}
Offset Current	$\pm 200\mu A \text{ Max}$	I_{OS}
Offset Current Drift	$\pm 0.5 \text{ mA}$	KI_{OS}
Time Response (10% to 90% of I_p) Related to di/dt Specified	$< 1\mu s$	T_R
di/dt Followed Accurately	$> 200A/\mu s$	
Frequency Bandwidth ($I_p = 10 A AC$)	DC to 100kHz (-3dB)	F_c

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



HCT-300LTP

RoHS
2002/95/EC

4. Output Connector

Connection		
Maximum Primary Conductor Temperature	120°C	
Compensation Winding Maximum Resistance (T = 25°C)	36 Ohm	R _c

5. General Data

Operating Temperature	-40 to +85 °C	T _A
Storage Temperature	-40 to +125 °C	T _S
Weight	900 g	
Basic Insulation (Between Primary and Measurement Current)	6000 V AC 50Hz 1'	V _I

6. Standards



HCT-300LTP

RoHS
2002/95/EC

7. Packaging

- Single Packaging.

**END OF
DOCUMENT**