

Product Data sheet : Hall Effect Current Sensor - HE1K0T01

Date : 27.02.2014

Rev : 02

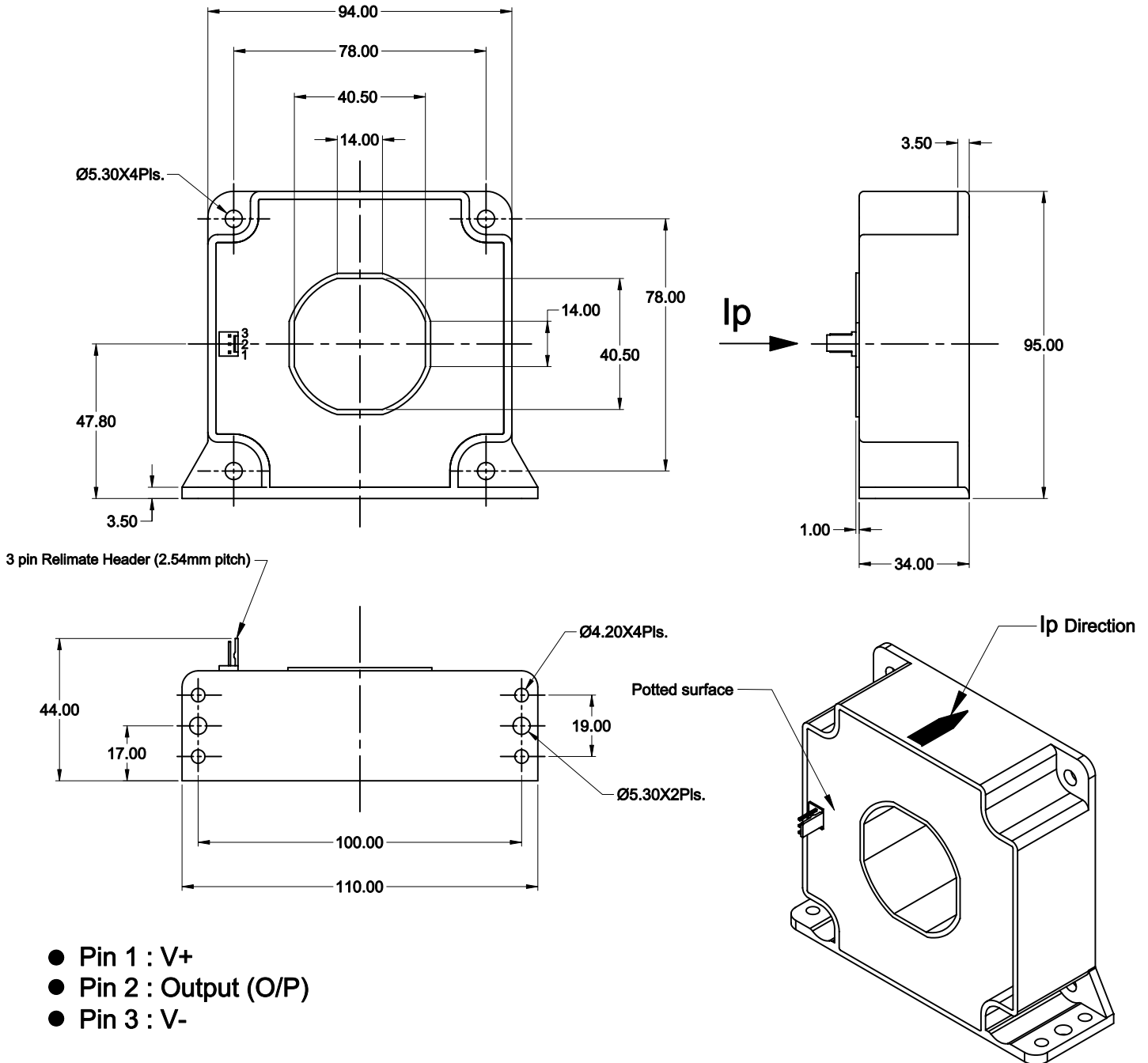
Page 1 of 2

Customer: ---

Customer's part No.: ---

Pb RoHS Compliant

● MECHANICAL DIMENSIONS



- Pin 1 : V+
- Pin 2 : Output (O/P)
- Pin 3 : V-

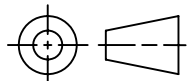
● APPLICATION :

Used for measurement of electric current, AC, DC, Pulsed in electrical & electronic equipment.

● FEATURES :

- Closed loop current sensor.
- Flange mounting type.
- Current output.

GENERAL TOL.
±0.5 mm

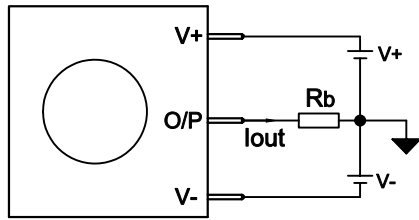


ALL DIMENSIONS
ARE IN 'mm'

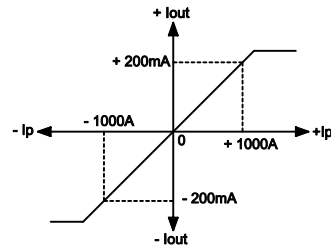
SCALE -NTS

Product Data sheet : Hall Effect Current Sensor - HE1K0T01

● CONNECTIONS DIAGRAM



● INPUT & OUTPUT CHARACTERISTICS



+ Ip Indicates primary current flowing in the direction of the arrow

● SPECIFICATIONS @ 25° C **

PARAMETERS	VALUES	UNITS
Primary Current Nominal (Ipn)	1000	Arms
Primary current, range (Ip)	± 1500	A
Burden Resistance (Rb)	T _A = 70°C Rb min. Rb max.	
with ± 15 V, @ ± 1000 A	0 18	Ω
@ ± 1200 A	0 7	
with ± 24V, @ ± 1000 A	5 60.5	
@ ± 1500 A	5 24	
Conversion Ratio (K)	5000 : 1	---
Current output @ Ipn (Iout)	200	mA
Supply Voltage (V+ / V-), ±5%	+/- 15 to +/- 24	V
Current consumption @ ±18V (Ic)	26 + Iout	mA
Accuracy @ Ipn	+/- 0.4	%
Linearity	< 0.1	%
Output offset current @ Ip = 0 (Ioffset)	< ±0.40	mA
Temperature variation of Ioffset (-10 to +85°C)	±0.50 (max.)	mA
Response time 90% of Ipn step	< 1.0	μs
Frequency bandwidth @ -3 dB (fbw)	DC to 100	kHz
di/dt accurately followed	> 100	A/μs
Secondary coil resistance	40 (Typical)	Ω
Dielectric strength Pri to Output terminals	3.8	kVrms
Creepage distance	20.60 (min.)	mm
Clearance distance	19.60 (min.)	mm
Operating Temperature Range	- 40 to + 85	°C
Storage Temperature	- 40 to + 85	°C
Weight	550	g

** Specifications subject to change.

Note : ---