

## Product Data sheet : Hall Effect Current Sensor - HE300T02

Date : 17.02.2010

Rev : 03

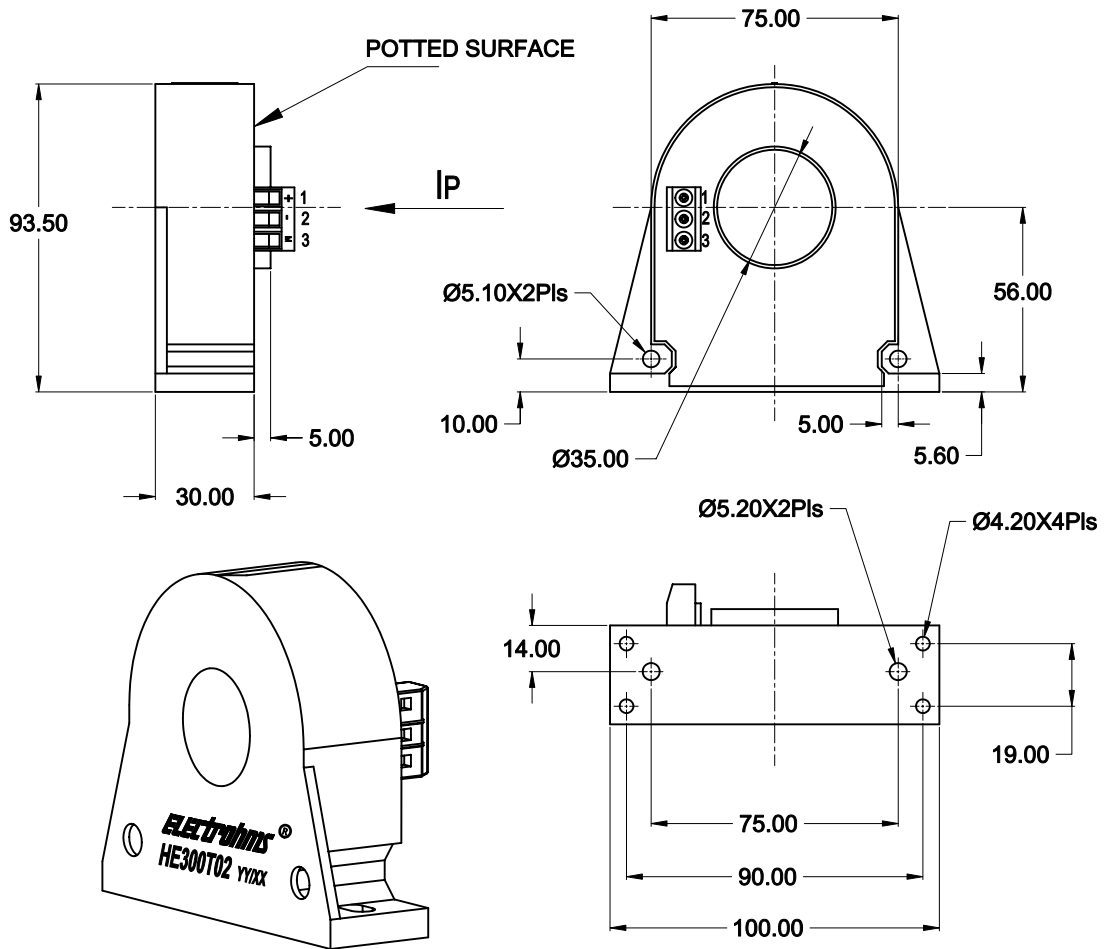
Page 1 of 2

Customer: Standard

Customer's part No.: ---

 RoHS Compliant

### ● MECHANICAL DIMENSIONS



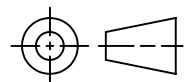
### ● APPLICATION :

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

### ● FEATURES :

- Closed loop current sensor.
- Flange mounting type.
- Current output.
- RoHS Compliant
- All relevant materials are UL approved

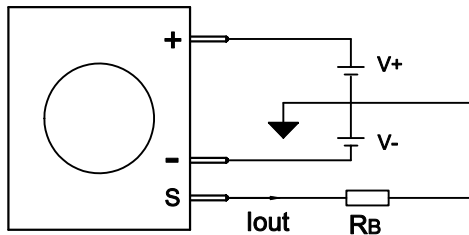
GENERAL TOL.  
±0.5 mm



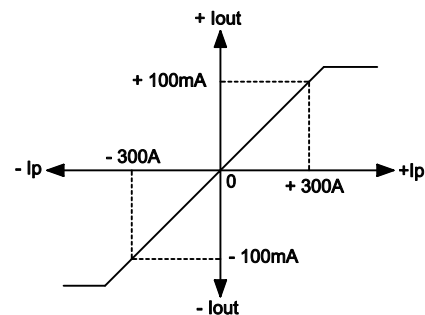
ALL DIMENSIONS  
ARE IN 'mm'

SCALE -NTS

## ● CONNECTIONS DIAGRAM



## ● INPUT &amp; OUTPUT CHARACTERISTICS



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

## ● SPECIFICATIONS @ 25° C \*\*

PARAMETERS	VALUES	UNITS
Primary Current Nominal (Ipn)	300	Arms
Primary current, range (Ip)	0 to +/- 500	A
Burden Resistance (Rb) @ ± 15V, ±300A @ ± 15V, ±500A	95 (max.) 40 (max.)	W
Conversion Ratio (K)	3000 : 1	---
Current output @ Ipn (Iout)	100±0.5%	mA
Supply Voltage (V+ / V-)	+/- 15 to 18	V
Current consumption @ ±15V (Ic)	28 + Is	mA
Accuracy	+/- 0.7	%
Linearity	<0.1	%FS
Output offset current @ Ip = 0.	<±0.25	mA
Temperature variation of Iout (-25 to +85°C)	<±0.5	mA
Reaction time 10% Ipn step	< 0.5	µs
Response time 90% of Ipn step	< 1.0	µs
Frequency bandwidth @ -3dB (fbw)	DC to 100	kHz
Secondary coil resistance	36.0	W
Dielectric strength Pri to Output terminals	2.5	kVrms
Operating Temperature Range	- 25 to + 85	°C
Storage Temperature	- 40 to + 100	°C
Weight	308	g

\*\* Specifications subject to change.

Note : ---