NA25B-P Current Transducer

Applications:

For the electronic measurement of circuits: AC, DC, pulsed, mixed, with a galvanic isolation between the primary (high power) and the secondary (electronic) circuits.

Main technical data:

1. Normal current I_{PN}: 25A rms
2. Measuring range I_P: 0~+/-55A
3. Measuring resistance @+85ºC:

		$R_M$min	$R_M$max
with ±12V	@ ±DC25A:	0Ω	252Ω
	@ ±AC25A:	0Ω	150Ω
with ±15V	@ ±DC25A:	70Ω	366Ω
	@ ±AC25A:	70Ω	231Ω

4. Secondary normal current: 25mA rms
5. Conversion ratio: 1-2-3:1000
6. Supply voltage(+/-5%): +/-12V~ +/-15V
7. Current consumption: 16mA+ Secondary output current
8. Isolation: Between primary and secondary + test winding + screen: 5kV rms/50Hz/1min

Accuracy – Dynamic performance

1. Accuracy @ $I_{PN,}$ T_A=+25ºC: +/-0.8%
2. Non-linearity (0~+/-I_{PN}): +/-0.2%
3. Offset current Io @T_A=+25ºC: +/-0.15mA
4. Residual current @ I_P=0, after an overload of 3xI_{PN}: less than +/-0.25mA
5. Thermal drift of Io @ 0℃~+70℃: +/-0.6mA
   @ -25℃~+85℃: +/-0.7mA
6. Response time @90% of I_P max：≤500ns
7. di/dt accurately followed: > 200A/us
8. Frequency bandwidth (-1dB): DC 0~200kHz

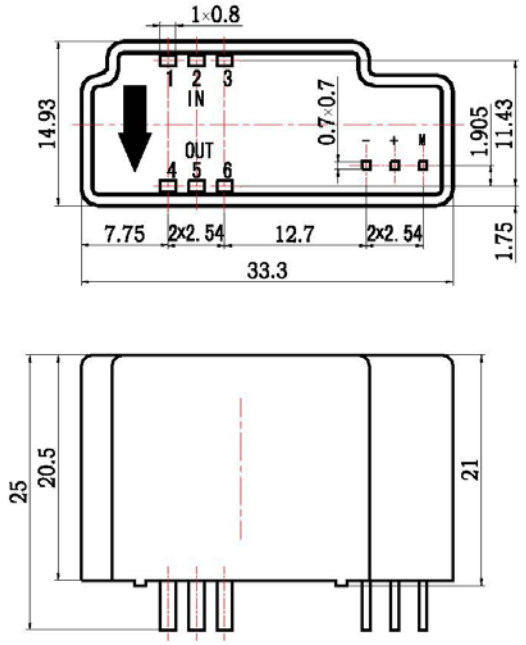
General data:

1. Operating temperature: -25℃~+85℃
2. Storage temperature: -40℃~+90℃
3. Secondary coil resistance: ≤76Ω
4. Weight: 22g
5. Standards: EN 50178

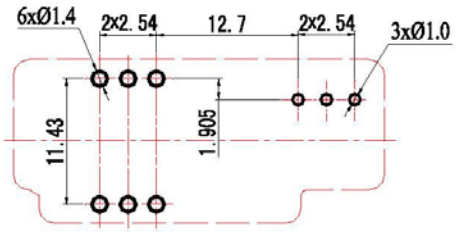
Features:

1. Hall effect measuring principle
2. Galvanic isolation between primary and secondary circuit
3. Insulated plastic case made of white PPO recognized according to UL 94-V0
4. The whole current transducer comply with RoHS Directive completely

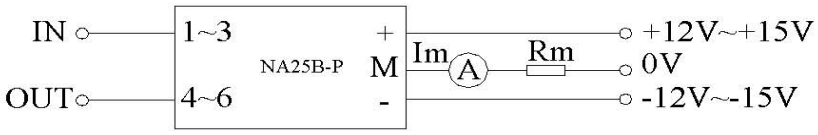
Dimension:

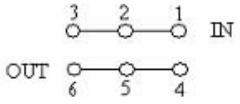
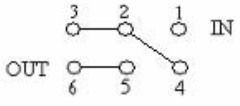


Drill holes size of the P.C.B. (Top view):



Connection:



Number of premary turns	Primary current		Nominal output current	Turns ratio	Primary resistance	Primary insertion inductance	Recommended connections
	nominal I_{PN} [A]	maximum I_P [A]	I_{SN} [mA]	K_N	R_P [mΩ]	L_P [uH]	
1	25	55	25	1:1000	0.18	0.013	
2	12	27	24	2:1000	0.81	0.05	
3	8	18	24	3:1000	1.62	0.12