

Current Sensor for Inverter

Detect three-phase alternating current from a motor.
Transmit current values to control circuits for being proper value.

It's required to develop a current sensor to detect three-phase alternating current for BEV/HEV motor.



Feature

- 1** Voltage output proportional measuring current
- 2** Customize current detective range ($\pm 1000\text{A}$) by using Hall IC with built-in EEPROM
- 3** Compact design for current measurement range

Performance/Specification

Supply voltage	$5.0\text{V} \pm 0.5\text{V}$
Usage temperature	-40 to 125degC
Current detective range	$\pm 1000\text{A}$ (3 output)
Output accuracy	Up to $\pm 4.5\text{A}$ (offset) Up to $\pm 2\%$ (gain)
Output system	Analog (ratiometric output)
Reaction speed	Max. 6 μs
Detective system	Detect magnetic flux density by Hall IC
Current consumption	Up to 42mA

