Product Description

Hall Sensor Series

Closed-loop Hall Current Sensors

ATRAK ENERGY GOSTAR ARAS

Closed-loop Hall Current Sens

Introduction

Closed-loop Hall current sensors, manufactured using the Hall magnetic compensation principle, are used to measure 2000A DC, AC and pulse currents. The primary side input current IN is electrically isolated from the secondary side output current IM and follows the input current linearly in a true manner.

Application area

Various power supplies, industrial automation control, electric power systems, rectification systems, nuclear physics research and other industrial and scientific research technology fields.

Closed-loop Hall Current Sensors					
Model number	Rated current	Output current	Accuracy	Supply voltage	Window dimensions
	IN（A）	IM（mA）	X（%）	Vc（V）	mm
CHB-2KB	2000	400	±0.4%	±24%	105x105
CHB-3KB	3000	600			
CHB-4KB	4000	800	±0.4%	±24	105x105
CHB-5KB	5000	1000			
CHB-6KB	6000	1200			

parameters	
Manufacturing principles	Hall magnetic compensation principle
Rated current	2,000A-6,000A（DC、AC、Pulse current）
Output current ratio	1：5000 The waveform of the output current on th e secondary side is the same as that of the measured current on the primary side.
Measuring frequency	DC~20KHz
Response time	<1μS
Linearity	<0.1%
Supply voltage	±24V（±5%）
Power consumption	90mA+IM（Output current）
Insulation voltage	Between the primary and secondary circui ts：6KV valid value/50Hz/1 minute
Operating temperature	-25℃~+70℃
Installation method	Screw-fixed mounting
Application areas	Various power supplies, industrial auto mation control, electric power systems,

	rectification systems, nuclear physics res earch and other industrial and scientific research technology fields.