



Product Description

Hall Sensor Series

Closed-loop Hall Current Sensors





Closed-loop Hall Current Sens



Introduction

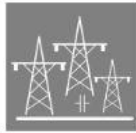
Closed-loop Hall current sensors, manufactured using the Hall magnetic compensation principle, are used to measure 2000A DC, AC and pulse currents. The primary side input current I_N is electrically isolated from the secondary side output current I_M and follows the input current linearly in a true manner.

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%	±24V	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 the 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 circuits : 6KV valid value/50Hz/1 minute		
Operating temperature			-25°C~+70°C		
Installation method			Screw-fixed mounting		
Application areas			Various power supplies, industrial automation control, electric power systems,		



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