Multi–range precision current sensor

HCJ-5/2KB

Multi-range precision current sensor for measuring DC, AC and pulse current, the measured current on the primary side is electrically isolated from the output current on the secondary side

Feature:

Multi range: 5-2000A RMS (DC, AC, pulse current)
Measurement frequency: DC~50KHz
Accuracy (25°C):+0.2%
Response time:<1uS
Linearity:<0.1%
Can simultaneously measure DC, AC, and pulse currents
High isolation between primary current and secondary output signal
Manufacturing of closed-loop Hall magnetic compensation principle

HCJ Series hall effect current sensor

Part No	Rated current I_N(A)	I_P(A)	I_M(mA)	Accuracy Ta=25°C	Turns ratio K_N	Load Resistance Ωmin	Load Resistance Ωmax	Ioff(mA)	Vc(V)	Ic(mA)	Vi(KV)	Ta(°C)	W(g)	Input hole mm
HCJ-5/2KB	5/10/25/50/100	±1.2xI_N	200	0.2%	80...4:2000	0	5	±0.3	±24	90+IM	6	0~+50	7000	P1…S1~5
multirange	200/400	±3000	200	0.2%	2/1:2000	0	5	±0.3	±24	90+IM	6	0~+50	7000	φ102
	1000	±3000	500	0.2%	1:2000	0	5	±0.3	±24	90+IM	6	0~+50	7000	φ102
	2000	±3000	1000	0.2%	1:2000	0	5	±0.3	±24	90+IM	6	0~+50	7000	φ102

Output parameter of HCJ Series hall effect current sensor

Rated current IN(A)	measuring range IP(A)	Output current IM(mA)	Turns ratio KN	Input hole
5	±6	200	80:2000	P1…S1
10	±12	200	40:2000	P1…S2
25	±30	200	16:2000	P1…S3
100	±120	200	4:2000	P1…S4
200	±1500	200	2:2000	Φ102、2Ts
400	±3000	200	1:2000	Φ102、1Ts
1000	±3000	500	1:2000	Φ102、1Ts
2000	±3000	1000	1:2000	Φ102、1Ts

I_N	Nominal current	Voff	Offset voltage
V_N	Nominal voltage	Td	Temperature drift
I_p	Measuring range	L	Linearity
R_M	Measuring resistance	Tr	Response time
I_M	Output current	f	Frequency bandwidth
V_M	Output voltage	Ta	Operating temperature
K_N	Turns ratio	Ts	Storage temperature
X	Accuracy	Ic	Current consumption
Vc	Supply voltage	Rs	Secondary resistance
Vi	Isolation voltage	R_N	Primary resistance
Ioff	Offset current	W	Weight