Cheemi Technology Co., Ltd

DATA SHEET
Hall Effect Current Sensor

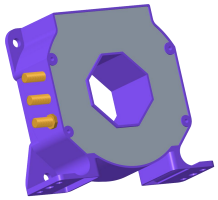
PN: CHB1000LFD15D200-S6T2 | **I_{PN}=1000A**

Feature

- Closed- loop (compensated) current transducer
- Capable measurement of currents: DC, AC,pulse with galvanic isolation between primary circuit and secondary circuit.
- Supply voltage: DC ±15~24V
- S6--connector Model M5*16-3

Advantages

- High accuracy
- Easy installation
- Low temperature drift
- Optimized response time
- High immunity to external interference
- Very good linearity
- Can be customized



Applications

- The application of variable frequency electrical appliances
- AC/DC variable-speed drive
- Uninterruptible Power Supplies (UPS)
- Switched Mode Power Supplies (SMPS)
- Inverter applications

CE RoHS

Electrical data：（Ta=25℃， Vc= ±15VDC）

Parameter \ Ref	CHB1000LFD15D200-S6T2	
Rated input Ipn(A)	1000	
Measuring range Ip(A)	0～±1500	
Turns ratio N_P/N_S (T)	1:5000	
Output current rms I_S(mA)	±200*I_P/I_{PN}	
Secondary coil resistance R_S (Ω)	@I_{PN}, T=75℃	43
Measuring resistance R_M (Ω)		[(V_C-0.6V)/(I_S*0.001)]-R_S
	@±15V， 1000A, 75℃	0~25
	@±15V， 1400A, 75℃	0~5
	@±24V， 1000A, 75℃	15-60
	@±24V， 1500A, 75℃	15-30
Supply voltage V_C(V)	(±15～±24) ±5%	
Accuracy X_G(%)	@I_{PN},T=25℃	< ±0.2
Offset current I_{OE}(mA)	@I_P=0,T=25℃	< ±0.2

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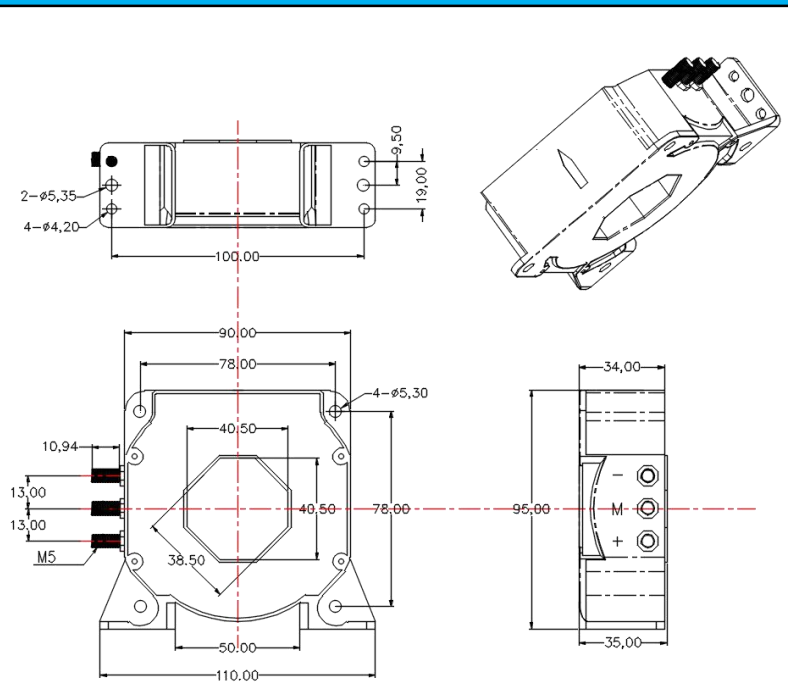
Temperature variation of I_{OE} I_{OT}(mA/°C)	@I_P=0,-40 ~ +85°C	< ±0.5
Linearity error εr(%FS)		< 0.1
Di/dt（A/μs）		> 100
Response time tra(μs)	@90% of I_{PN}	< 1.0
Power consumption I_C(mA)		20+Is
Bandwidth BW(KHZ)	@-3dB,I_{PN}	DC-100
Insulation voltage Vd(KV)	@50/60Hz, 1min, AC	6.0

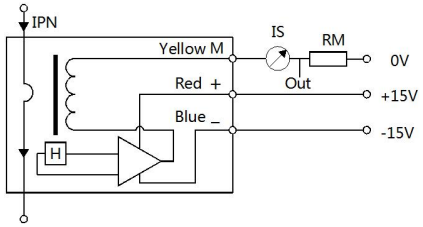
General data：

Parameter	Value
Operating temperature TA(°C)	-50 ~ +85
Storage temperature TS(°C)	-55~ +125
Mass M(g)	650
Plastic material	PBT G30/G15, UL94- V0;
Standards	IEC60950-1:2001
	EN50178:1998
	SJ20790-2000

Dimensions(mm):



Connection



General tolerance

General tolerance:< ±0.5mm

Primary through-hole：D 38.5±0.2

Connection of Secondary :

M5 (S6)

Remarks：

- When the current goes through the primary pin of a sensor, the voltage will be measured at the output end.
- Custom design is available for the different rated input current and the output voltage.
- The dynamic performance is the best when the primary hole if fully filled with.
- The primary conductor should be <100°C.

WARNING : Incorrect wiring may cause damage to the sensor.

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