DATA SHEET
Hall Effect Current Sensor

PN: CHB_SH15D200	IPN=1000A

Feature

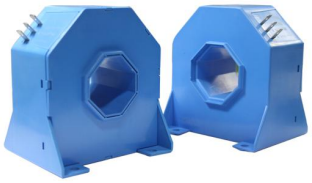
- Closed- loop (compensated) current transducer using the hall effect
- Capable measurement of currents: DC, AC,pulse with galvanic isolation between primary circuit and secondary circuit.
- Insulated plastic case recognized according to UL94_V0.
- Supply voltage: DC ±15 ~ 24 V

Advantages

- High accuracy
- Easy installation
- Low temperature drift
- Optimized response time
- Low power consumption
- 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 ISO 14001 ISO 9001 2008

Electrical data：（Ta=25℃，Vc= ±15VDC）

Parmeter \ Ref	CHB1000SH15D200	
Rated input Ipn(A)	1000	
Measuring range Ip(A)	0 ~ ±2000	
Turns ratio Np/NS (T)	1:5000	
Output current rms IS(mA)	±200*IP/IPN	
Secondary coil resistance RS (Ω)	50	
Inside resistance RM (Ω)	[(VC-0.4V)/ (IS*0.001)]-RS	
Supply voltage VC(V)	(±15 ~ ±24) ±5%	
Accuracy XG(%)	@IPN,T=25°C	< ±0.2
Offset current IOE(mA)	@IP=0,T=25°C	< ±0.2
Temperature variation of IOE IOT(mA/°C)	@IP=0,-40 ~ +85°C	< ±0.5
Linearity error εr(%FS)	< 0.1	

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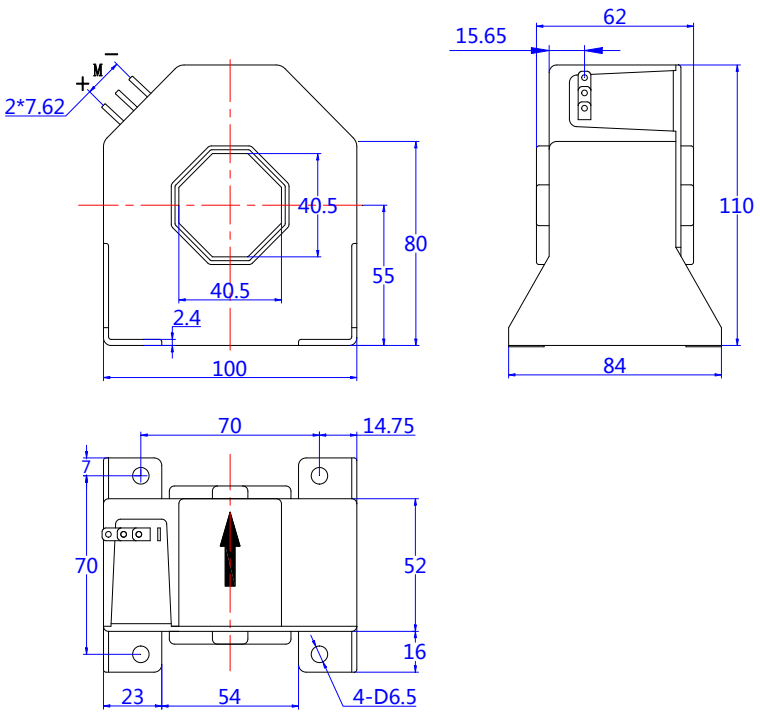
Di/dt accurately followed（A/μs）	> 100	
Response time tra(μs)	@90% of IPN	< 1.0
Power consumption IC(mA)	20+Is	
Bandwidth BW(KHZ)	@-3dB,IPN	DC-150
Insulation voltage Vd(KV)	@50/60Hz, 1min,AC	6.0

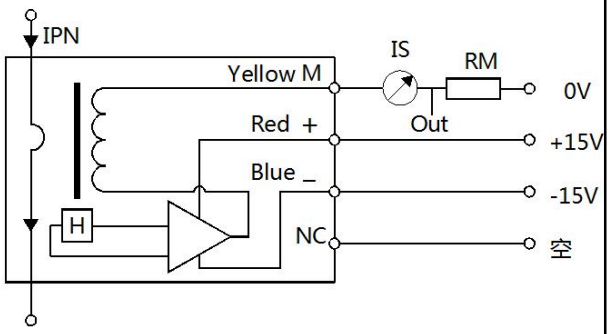
General data：

Parameter	Value
Operating temperature TA(°C)	-40 ~ +85
Storage temperature TS(°C)	-55~ +125
Mass M(g)	620
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：D40.5±0.2

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.