



DATA SHEET

Hall Effect Current Sensor

PN: CHB2000LFG15D400

I_{PN}=2000A

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

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



RoHS



Electrical data: (T_a=25°C, V_c= ±15VDC)

Parameter	Ref	CHB2000LFG15D400
Rated input I _{pn} (A)		±2000
Measuring range I _p (A)		0 ~ ±3500
Turns ratio N _p /N _s (T)		1:5000
Output current rms I _s (mA)		±400*I _p /I _{PN}
Secondary coil resistance R _s (Ω)		30
Inside resistance R _M (Ω)		[(V _c -1.2V)/(I _s *0.001)]-R _s Considering the influence of power supply fluctuation, the power supply voltage value is 95% of the standard value during calculation;
Supply voltage V _c (V)		(±15 ~ ±24) ±5%
Accuracy X _G (%)	@I _{PN} , T=25°C	< ±0.3
Offset current I _{OE} (mA)	@I _p =0, T=25°C	< ±0.2
Temperature variation of I _{OE} I _{OT} (mA/°C)	@I _p =0, -40 ~ +85°C	< ±0.005
Linearity error ε _r (%FS)		< 0.1



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General data:

Di/dt accurately followed (A/μs)		> 100
Response time τ _{ra} (μs)	@90% of I _{PN}	< 1.0
Power consumption I _c (mA)		40+I _s
Bandwidth BW(KHZ)	@-1dB, I _{PN}	DC-200
Insulation voltage V _d (KV)	@50/60Hz, 1min, AC	6.0

General data:

Parameter	Value
Operating temperature T _A (°C)	-50 ~ +85
Storage temperature T _S (°C)	-55 ~ +125
Mass M(g)	
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: 74.1mm