

DATA SHEET Hall Effect Current Sensor

PN: CHB LFAH15D

IPN=10-1000A

Feature

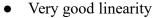
- Closed- loop (compensated) current transducer
- Supply voltage: DC ±15~24V Capable measurement of currents: DC, AC, pulse with galvanic isolation between primary circuit and secondary circuit.

Advantages

- High accuracy
- Easy installation
- Low temperature drift
- Optimized response time
- High immunity to external interference

Applications

- AC variable speed drives and servo motor drives
- Static converters for DC motor drives
- Battery supplied applications
- Uninterruptible Power Supplies (UPS)
- Switched Mode Power Supplies (SMPS)
- Power supplies for welding applications.



Can be customized







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 ϵ **RoHS**

Electrical data Ta=25°C	$V_c = \pm 15VDC$		
Ref Parmeter	CHB1000LFAH15D		
Rated input Ipn(A)	10-1000		
Measuring range Ip(A)	2000		
Turns ratio Np/NS (T)	1:5000		
Output current rms IS(mA)	2±0.1%FS(10A), 200±0.1%FS(1000A)		
Secondary coil resistance RS (Ω)	@ 85°C 48		
Measure resister RM (Ω)	with±15V @±1000Amax 0(min) 20(max) with±15V @±1200Amax 0(min) 7.5(max) with±24V @±1000Amax 0(min) 65(max) with±24V @±2000Amax 0(min) 7.5(max)		
Supply voltage VC(V)	(±15 ~ ±24) ±5%		
Offset current IOE(mA)	@Ip=0		
Offset drift(mA)	@IP=0,-40 ~ +85°C < ±0.005		



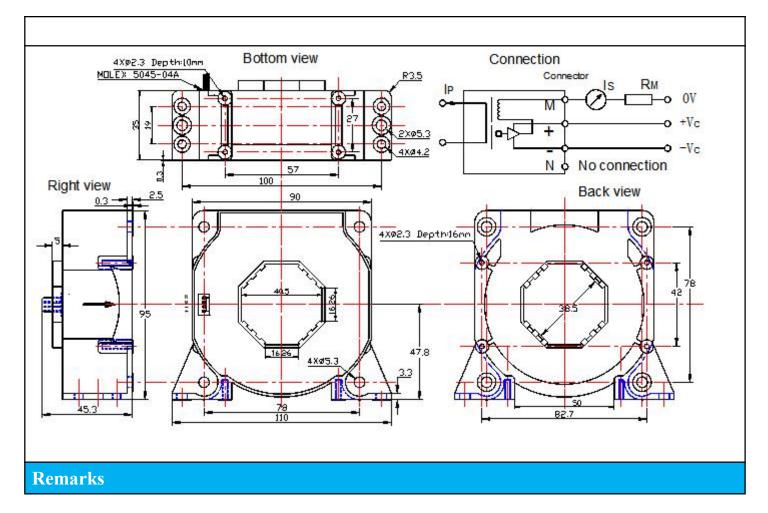
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Accuracy XG(%)	@IPN,T=25°C	<±0.1	
Linearity error εr(%FS)		< 0.1	
Di/dt accurately followed A/μs		> 100	
Response time tra(μs)	@100A/μS,10%-90%	<1	
Power consumption IC(mA)		$\leq 20 + IpX(Np/Ns)$	
Bandwidth BW(KHZ)	@ -3dB	DC150	
Insulation voltage Vd(KV)	@50/60Hz, 1min,AC	6.0	

General data		
Parameter	Value	
Operating temperature TA(°C)	- 40 ∼ +85	
Storage temperature TS(°C)	-40∼+125	
Mass M(g)	570	
Plastic material	UL94-V0.	
Standards -	EN60947-1:2004	
	IEC60950-1:2001	
	EN50178:1998	
	SJ 20790-2000	





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- 1. All dimensions are in mm.
- 2. General tolerance ± 1 mm.

Characteristics chart: Pulse current signal response characteristic input signal output signal output signal

Directions for use

- When the current goes through the primary pin of a sensor, the voltage will be measured at the output end.
- > Is will be in a forward direction when the IP flows according to the direction of the arrowhead.
- 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 ≤ 120°C.

WARNING: Incorrect wiring may cause damage to the sensor.

