

DATA SHEET Hall Effect Current Sensor

PN: CHB LTA15D3.0

IPN=30~300A

Feature

- Closed- loop (compensated) current transducer
- Supply voltage: DC ±12~18V Capable measurement of currents: DC, AC, pulse with galvanic isolation between primary circuit and secondary circuit.

Advantages

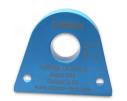
- High accuracy
- Easy installation
- Low temperature drift
- Optimized response time
- High immunity to external interference

Applications

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



- Very good linearity
- Can be customized







RoHS

Electrical data: (Ta=25°C, Vc=±15VDC,RL=10KΩ,CL=10000pF)							
Ref Parmeter	CHB30 LTA15D3.0	CHB50 LTA15D3.0	CHB100 LTA15D3.0	CHB200 LTA15D3.0	CHB300 LTA15D3.0		
Rated input Ipn(A)	30	50	100	200	300		
Measuring range Ip(A)	0 ~ ±60	0 ~ ±100	0 ~ ±200	0 ~ ±400	0 ~ ±600		
Turns ratio Np/NS (T)	1:500	1:1000	1:1000	1:2000	1:3000		
Inside resistance RM (Ω)	50±0.1%	60±0.1%	30±0.1%	30±0.1%	30±0.1%		
Output voltage Vo(V)	±3.0*(IP/IPN)						
Supply voltage VC(V)	(±12~±18) ±5%						
Accuracy XG(%)	@IPN,T=25°C <±0.5						
Offset Voltage VOE(mV)	@IP=0,T=25°C <±30						
Temperature variation of VOE VOT(mV/°C)	@IP=0,-40 \sim +85°C $< \pm 0.5$						
Linearity error $\varepsilon r(\%FS)$	< 0.1						
Di/dt accurately followed (A/µs)	> 50						
Response time tra(μs)	@90% of IPN <1.0						
Power consumption IC(mA)	15+Is						



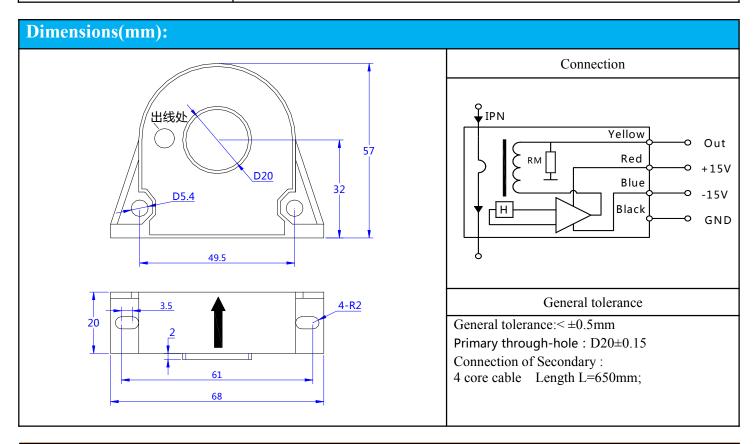
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Bandwidth BW(KHZ)	@-3dB,IPN	DC-100	
Insulation voltage Vd(KV)	@50/60Hz, 1min,AC	6.0	

General data:				
Parameter	Value			
Operating temperature TA(°C)	-40 ∼ +85			
Storage temperature TS(°C)	-55~ +125			
Mass M(g)	70			
Plastic material	PBT G30/G15, UL94- V0;			
	IEC60950-1:2001			
Standards	EN50178:1998			
	SJ20790-2000			



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.

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The primary conductor should be <100°C.

WARNING: Incorrect wiring may cause damage to the sensor.

