



DATA SHEET

Hall Effect Current Sensor

PN: CHK_BSD15D5

IPN=AC20-600A

Feature

- Open-loop current transducer using the hall effect
- Capable measurement of currents: DC, AC, pulse with galvanic isolation between primary circuit and secondary circuit.
- Output signal can be directly acquisitioned by the PLC or DSP terminal control system.
- Supply voltage: DC $\pm 12.0 \sim 15.0$ V

Advantages

- Easy installation
- No insertion losses
- Low power consumption
- Wide current measuring range
- High immunity to external interference
- 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: (Ta=25°C, Vc=±15.0VDC)

Parameter	Ref	CHK20 BSD15D5	CHK100 BSD15D5	CHK200 BSD15D5	CHK300 BSD15D5	CHK400 BSD15D5	CHK600 BSD15D5
Rated input RMS Ip(A)		AC20	AC100	AC200	AC300	AC400	AC600
Measuring range Ip(A)		0 ~ ±40	0 ~ ±200	0 ~ ±400	0 ~ ±600	0 ~ ±800	0 ~ ±1200
Output voltage Vo(V)	@Ip=IPN			±5.0*(IPN/IP), DC			
Offset voltage VOE(mV)	@IP=0,			< ±40			
Supply voltage VC(V)				(±12.0~±15.0) ±5%			
Accuracy XG(%)	@IPN,T=25°C			< ±1.0			
Temperature variation of VOE VOT(mV/°C)	@IP=0,-40 ~ +85°C			< ±0.5			
Temperature variation of VO VOS(mV/°C)	@IP=0,-40 ~ +85°C			< ±1.5			
Linearity error er(%FS)				< 1.0			
Power consumption IC(mA)				15			
Bandwidth Bw(KHZ)	@-3dB, IPN			DC-2.0			



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Insulation voltage Vd(KV)

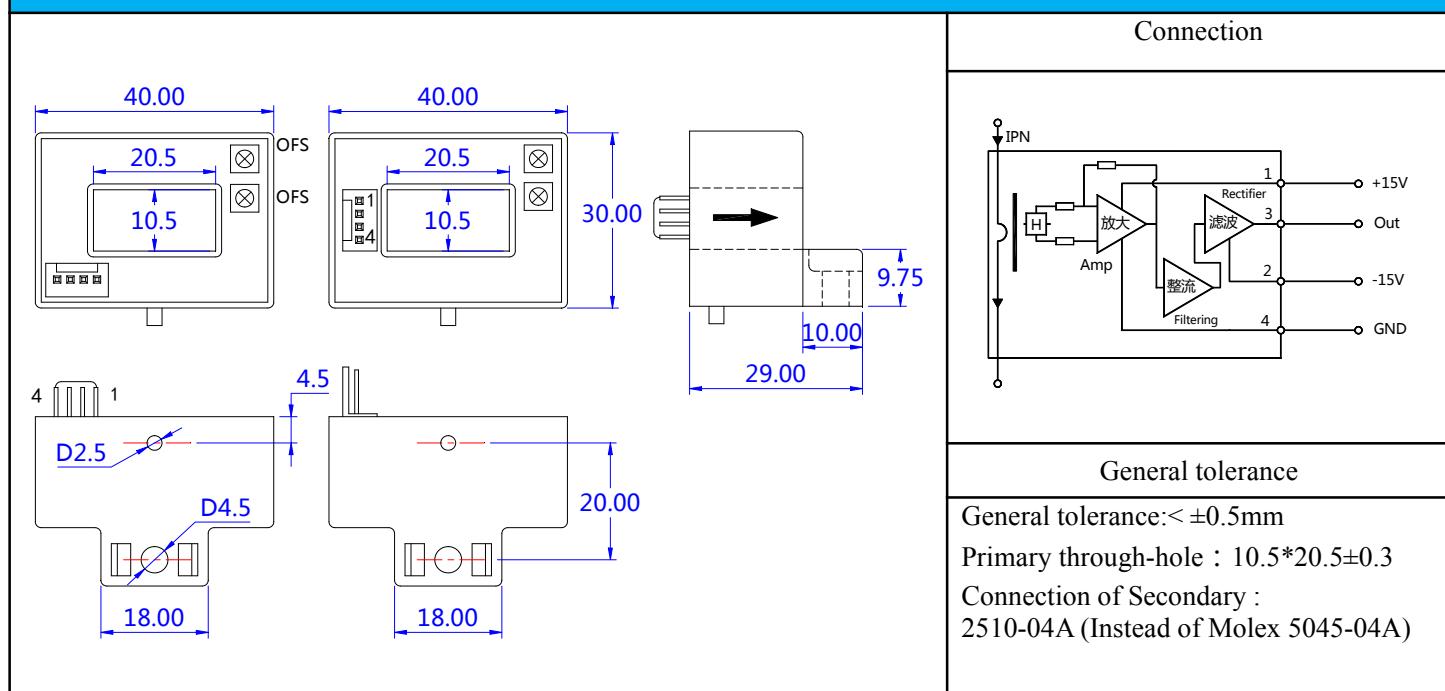
@50/60Hz, 1min,AC

2.5

General data:

Parameter	Value
Operating temperature TA(°C)	-40 ~ +85
Storage temperature TS(°C)	-55~ +125
Mass M(g)	50
Plastic material	PBT G30/G15, UL94- V0;
Standards	IEC60950-1:2001 EN50178:1998 SJ20790-2000

Dimensions(mm):



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.

