

DATA SHEET

Hall Effect Current Sensor



PN: CHB_LF15D120/150/200/240S2

IPN=300~1200A

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 $\pm 24V$
- S2--connector Model VH3.96-3P

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



Electrical data: ($T_a=25^{\circ}C$, $V_c= \pm 24VDC$)

Parameter \ Ref	CHB300LFD24 D150S2	CHB600LFD24 D120S2	CHB1000LFD24 D200S2	CHB2000LFD24 D240S2
Rated input $I_{pn}(A)$	300	600	1000	1200
Measuring range $I_p(A)$	0 ~ ± 900	0 ~ ± 1500	0 ~ ± 1500	0 ~ ± 1900 (normal state)
				0 ~ ± 2400 (transient state)
Turns ratio $N_p/N_s (T)$	1:2000	1:5000	1:5000	1:5000
Output current rms $I_S(mA)$	$\pm 150 * I_P / I_{PN}$	$\pm 120 * I_P / I_{PN}$	$\pm 200 * I_P / I_{PN}$	$\pm 240 * I_P / I_{PN}$
Secondary coil resistance $R_S (\Omega)$	25	39	39	39
Inside resistance $R_M (\Omega)$	[($V_C - 0.5V$) / ($I_S * 0.001$)] - R_S			
Supply voltage $V_C(V)$	$\pm 24 \pm 5\%$			
Accuracy $X_G(\%)$	@ $I_{PN}, T=25^{\circ}C$		< ± 0.2	
Offset current $I_{OE}(mA)$	@ $I_P=0, T=25^{\circ}C$		< ± 0.2	
Temperature variation of IOE $I_{OT}(mA/^{\circ}C)$	@ $I_P=0, -40 \sim +85^{\circ}C$		< ± 0.5	
Linearity error $\epsilon_r(\%FS)$	< 0.1			
Di/dt accurately followed	> 100			

