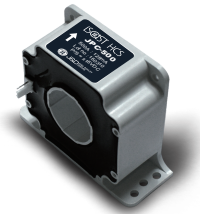




CLOSED LOOP HALL EFFECT CURRENT SENSOR

JPC-500X

For the electronic measurement of currents :
AC/DC current sensor, JPC series has good stability in high currents and a highly insulated primary and secondary.



ADVANTAGES

- Excellent accuracy
- Very good linearity
- Low temperature drift
- Optimized response time
- Wide frequency bandwidth
- No insertion losses
- High immunity to external interference
- Current overload capability.

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.

FEATURES

- Closed loop (compensated) current transducer using the Hall effect
- Insulated plastic case recognized according to UL 94-V0
- Panel mounting

SPECIFICATION

Model		JPC-500F			JPC-500T	
Connector	-	39-28-8040[5566-04A-210] Molex			38-00-6293[6410-03C(102)] Molex	
Primary nominal current rms	A	500				
Primary current, measuring range	A	0 .. ± 800				
Measuring resistance @	Ω	± 15V	@ ± 500A	0 ~ 60	@ ± 800A	0 ~ 11
		± 18V	@ ± 500A	0 ~ 92	@ ± 800A	0 ~ 30
		± 24V	@ ± 500A	5 ~ 149	@ ± 800A	5 ~ 65
Secondary nominal current rms	mA	100				
Conversion ratio	-	1 : 5000				
Supply voltage (+ 5 %)	V	± 15 .. 24				
Current consumption @ ± 15 V	mA	24(@ ± 18V) + I _S				
Overall accuracy	%	± 0.6				
Linearity error	%	< 0.1				
Offset current	mA	Max. ± 0.4				
Magnetic offset current	mA	Max. ± 0.2 (@ IP = 0 and specified R _M , after an overload of 3 x I _{PN})				
Insulation voltage	VD	AC 3800V / 1min.				
Temperature variation	mA	Typ. ± 0.1, Max. ± 0.4 (- 40°C .. + 70°C)				
Reaction time to 90 % of I _{PN} step	μs	< 1 (With a di/dt of 100 A/μs.)				
di/dt accurately followed	A/μs	> 100				
Frequency bandwidth (- 1 dB)	kHz	DC .. 100				
Ambient Operating temperature	°C	- 40 .. + 70				
Ambient storage temperature	°C	- 40 .. + 85				
Secondary coil resistance	Ω	70 (@T _a =70°C)				
Mass	g	230				
Standards	-	EN 50178: 1997 / IEC 61010-1				

