



CLOSED LOOP HALL EFFECT CURRENT SENSOR

JPC-300X

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.



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.

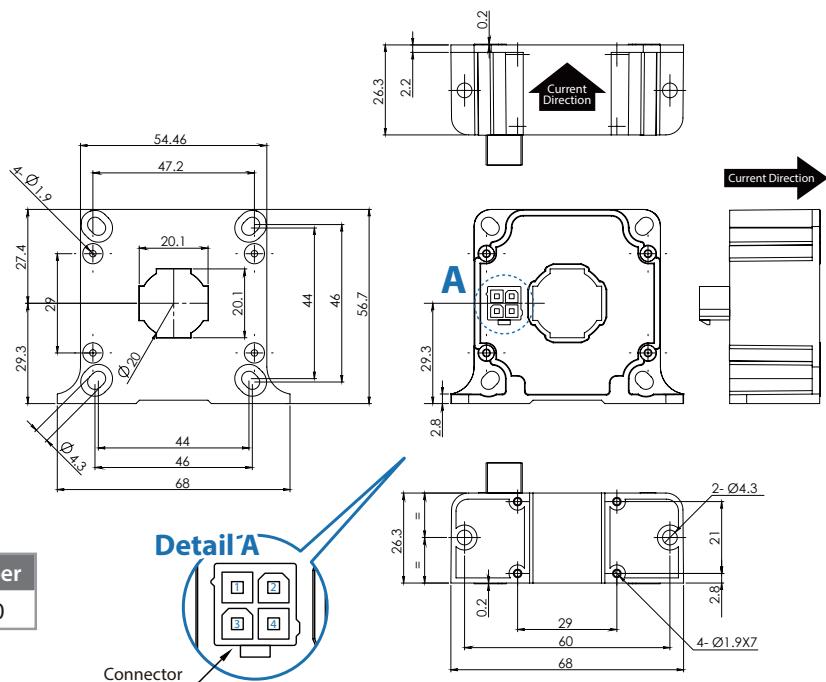
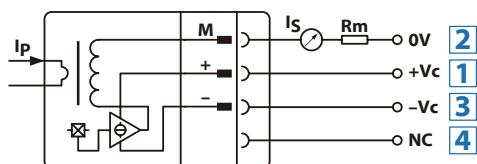
SPECIFICATION

Model		JPC-300F		JPC-300T				
Connector	-	39-28-8040[5566-04A-210] Molex		38-00-6293[6410-03C(102)] Molex				
Primary nominal current rms	A		300					
Primary current, measuring range	A		0 .. ± 500					
Measuring resistance	Ω	± 12V	@ ± 300A @ ± 500A	Ta=70°C : 0 ~ 37 Ta=70°C : 0 ~ 10	Ta=85°C : 0 ~ 35 Ta=85°C : 0 ~ 8			
		± 15V	@ ± 300A @ ± 500A	Ta=70°C : 0 ~ 56 Ta=70°C : 0 ~ 21	Ta=85°C : 0 ~ 54 Ta=85°C : 0 ~ 19			
		± 20V	@ ± 300A @ ± 500A	Ta=70°C : 0 ~ 88 Ta=70°C : 0 ~ 40	Ta=85°C : 0 ~ 86 Ta=85°C : 0 ~ 38			
Secondary nominal current rms	mA		150					
Conversion ratio	-		1 : 2000					
Supply voltage (+ 5 %)	V		± 12 .. 20					
Current consumption @ ± 15 V	mA		26(@ ± 20V) + Is					
Overall accuracy	%			± 0.5				
Linearity error	%			< 0.1				
Offset current	mA			Max. ± 0.2				
Magnetic offset current	mA		Max. ± 0.2(@ I _P = 0 and specified R _M , after an overload of 3 × I _{PN})					
Insulation voltage	VD		AC 3800V / 1min.					
Temperature variation	mA	Typ. ± 0.2, Max. ± 0.7 (- 40°C .. + 85°C) / Typ. ± 0.1 , Max. ± 0.3 (- 10°C .. + 70°C)						
Reaction time to 10 % of IPN step	ns	< 500						
Reaction time to 90 % of IPN step	μs	< 1 (With a di/dt of 100 A/μs.)						
di/dt accurately followed	A/μs	> 100						
Frequency bandwidth (- 3 dB)	kHz	DC .. 100						
Ambient Operating temperature	°C	- 40 .. + 85						
Ambient storage temperature	°C	- 40 .. + 85						
Secondary coil resistance	Ω	33(@Ta=70°C) / 35(@Ta=85°C)						
Mass	G	95						
Standards	-	EN 50178: 1997 / IEC 61010-1						



DIMENSIONS(MM)

JPC-300F

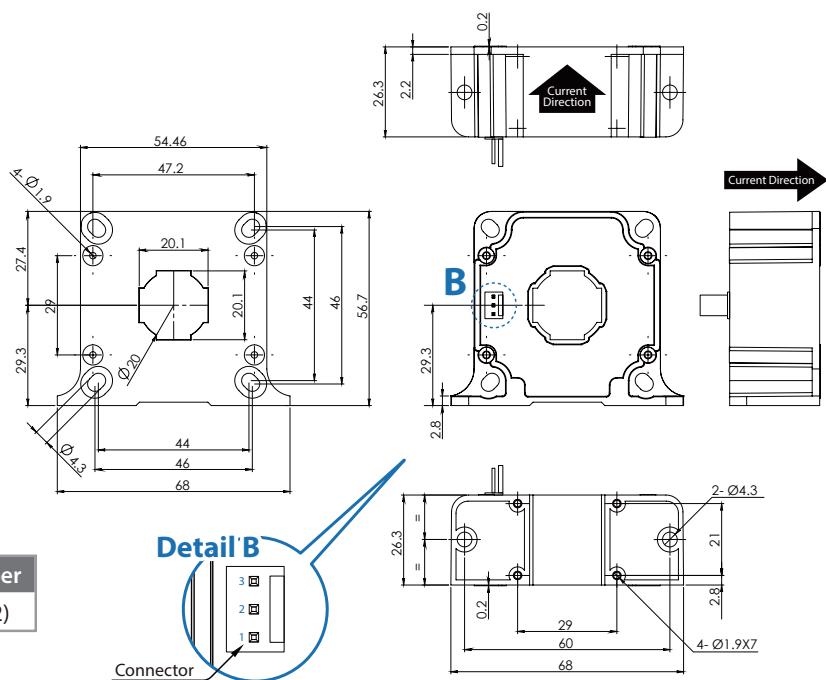
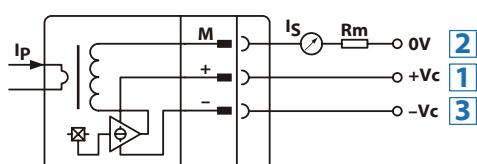


Connector

Manufacturer	Part Number	Old Part Number
Molex	39-28-8040	5566-04A-210

- Primary through-hole Ø 20.1 mm

JPC-300T



Connector

Manufacturer	Part Number	Old Part Number
Molex	38-00-6293	6410-03C (102)

- Primary through-hole Ø 20.1 mm