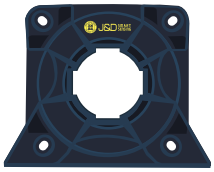
Panel Mounting

CLOSED-LOOP CURRENT SENSOR
JPC-1000X

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

SPEC \ MODEL		JPC-1000F			JPC-1000T
Connector	-	39-28-8040[5566-04a-210] Molex			38-00-6293[6410-03c(102)] Molex
Primary nominal current rms	A	1000			
Primary current, measuring range	A	0 .. ± 1500			
Measuring resistance	Ω	± 15V	@ ± 1000A	Ta=70˚C : 0 ~ 18	Ta=85˚C : 0 ~ 15
			@ ± 1200A	Ta=70˚C : 0 ~ 7	Ta=85˚C : 0 ~ 4
		± 24V	@ ± 1000A	Ta=70˚C : 5 ~ 60.5	Ta=85˚C : 10 ~ 57.5
			@ ± 1500A	Ta=70˚C : 5 ~ 24	Ta=85˚C : 10 ~ 21
Secondary nominal current rms	mA	200			
Conversion ratio	-	1 : 5000			
Supply voltage (+ 5 %)	V	± 15 .. 24			
Current consumption (± 1mV)	mA	28(@ ±24V) + I_S			
Overall accuracy	%	± 0.4			
Linearity error	%	< 0.1			
Offset current	mA	Max. ± 0.4			
Magnetic offset current	mA	Max. ± 0.2(@ I_P = 0 and specified R_M, after an overload of 3 x I_{PN})			
Insulation voltage	V_D	AC 3800V / 1min.			
Temperature variation	mA	Typ. ± 0.3, Max. ± 0.5 (- 10˚C .. + 85˚C) / Max. ± 0.8 (- 40˚C .. - 10˚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 .. 150			
Ambient Operating temperature	˚C	- 40 .. + 85			
Ambient storage temperature	˚C	- 45 .. + 100			
Secondary coil resistance	Ω	48 (@Ta=70˚C) / 51 (@Ta=85˚C)			
Mass	g	550			
Standards	-	EN 50178: 1997 / IEC 61010-1			

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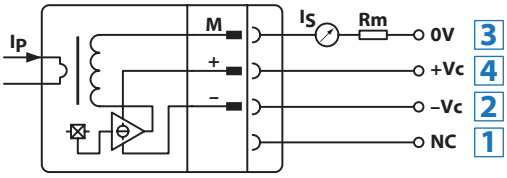
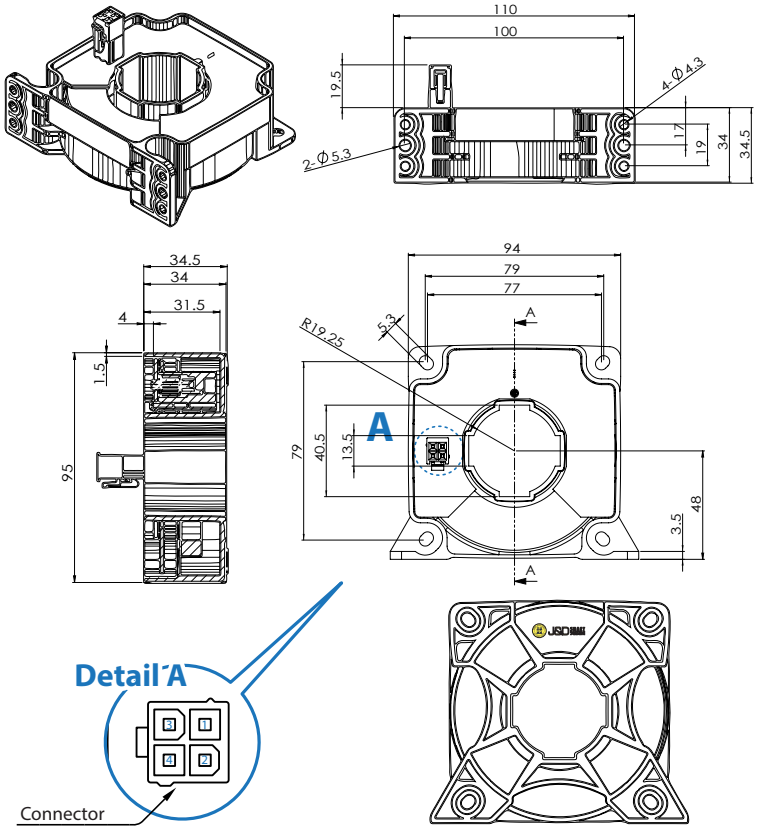
>>>> Dimensions(mm)

JPC-1000F



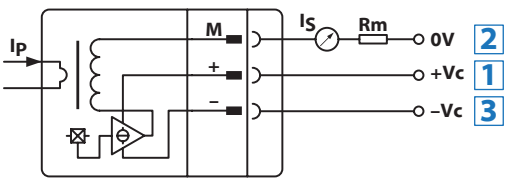


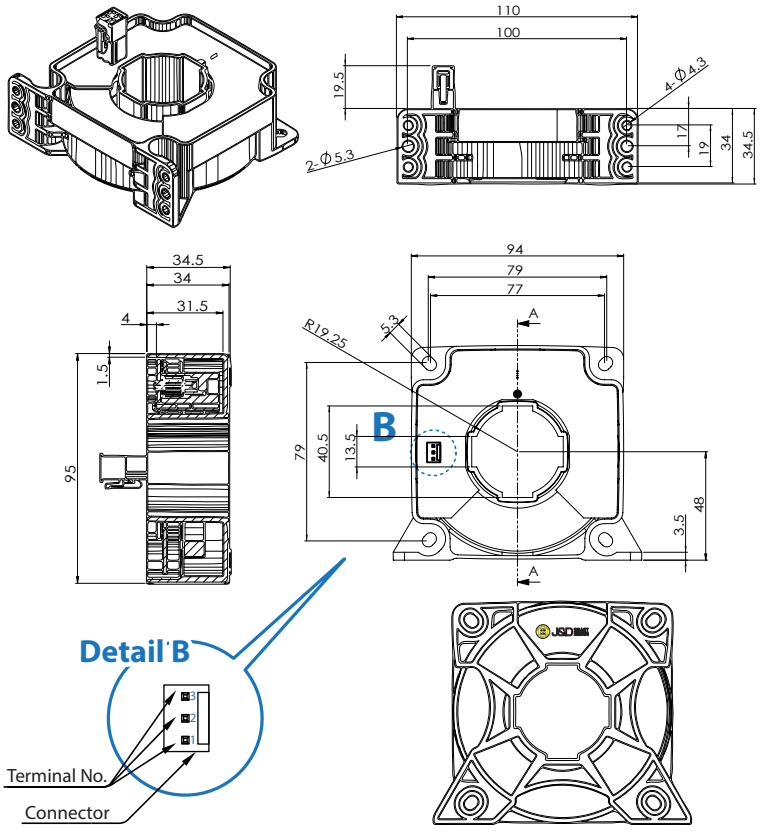
Connector

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

- Primary through-hole 40.5 x 13 mm or Ø 38 mm

JPC-1000T





Connector

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

- Primary through-hole 40.5 x 13 mm or Ø 38 mm