

Split-core AC Current Transformer

JC - series



Features

- Small-sized, light-weight
- Numerous secondary turns
- Nylon-spring, output-terminal, secure locking hinge, one-touch structure makes easy to install to the existent equipments such as a power distribution board.
- UL94-V0 Compliance, RoHS Correspondence

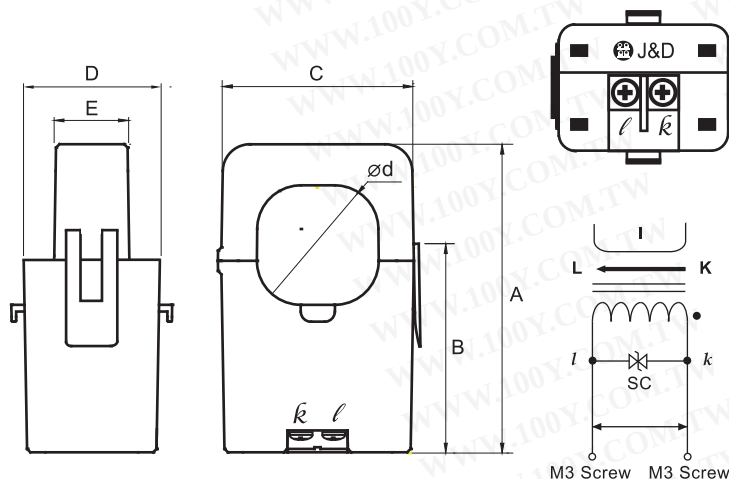
Applications

- Portable instruments
- Sub-meterings
- Monitor motor loads

Specification

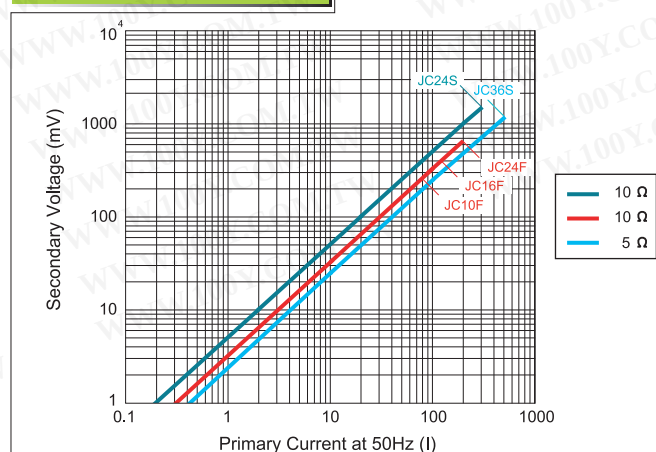
	Ø10		Ø16	Ø24		Ø36
Std. Model	JC10F		JC16F	JC24F	JC24S	JC36S
Current Ratio	5A/1.66mA	80A/26.66mA	120A/40mA	200A/66.6mA	300A/150mA	500A/250mA
Current Range	0.01~80A (RL=10Ω)		0.01~120A (RL=10Ω)	0.01~200A (RL=10Ω)	0.1~300A (RL=8Ω)	0.1~500A (RL=5Ω)
Max. Continuous Current	120A		200A	300A	360A	600A
Output Voltage	0.1V/60Ω	0.4V/15Ω	0.4V/10Ω	0.4V/6Ω	0.5V/3.3Ω	0.4V/1.6Ω
Nominal Phase Angle Error	$+1.5 \pm 1^\circ$		$+1.0 \pm 1^\circ$	$+1.0 \pm 1^\circ$	$+0.5 \pm 0.5^\circ$	$+0.5 \pm 0.5^\circ$
Nominal Linearity Error	$-1 \pm 1\%$		$-1 \pm 1\%$	$-1 \pm 1\%$	$\pm 1\%$	$\pm 1\%$
Turns Ratio	3000:1		3000:1	3000:1	2000:1	2000:1
DCR	360±25Ω		280±20Ω	171±15Ω	70±5Ω	33±4Ω
Protection Level	7.5V0-P		7.5V0-P	7.5V0-P	3.0V0-P	3.0V0-P
Weight	45g		75g	149g	179g	276g
Operating Frequency	50 / 60Hz					
Insulation Resistance	DC500V / 100MΩ or more (between Core and Output terminals)					
Dielectric Strength	AC 2500V / 1 min. (between Core and Output terminals)					
Latch / Unlatch	about 150 times					
Output Terminals	2 × M3 Screw, with Terminals cover					
Tightening Torque	0.3N*m					
Operating Conditions	-20°C~+50°C, ≤85%RH, No condensation, In-house & Any direction installable					
Storage Conditions	-30°C~+90°C, ≤85%RH, No condensation					

Dimension | Connection Diagram



Std. Model	A	B	C	D	E	Unit : mm
JC10F	50	38	23	26	14.5	10
JC16F	55	41	29.5	31	19	16
JC24F/S	74.5	52	45	34	22	24
JC36S	91	62	57	40.5	22	36

Output Voltage Data



勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-34970699
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[Http://www.100y.com.tw](http://www.100y.com.tw)

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- Small-sized, light-weight
- TRIAC Built-in
- Nylon-spring, output-Terminal, secure locking hinge, one-touch structure makes easy to install to the existent equipments such as a power distribution board.
- UL94-V0 Compliance, RoHS Correspondence

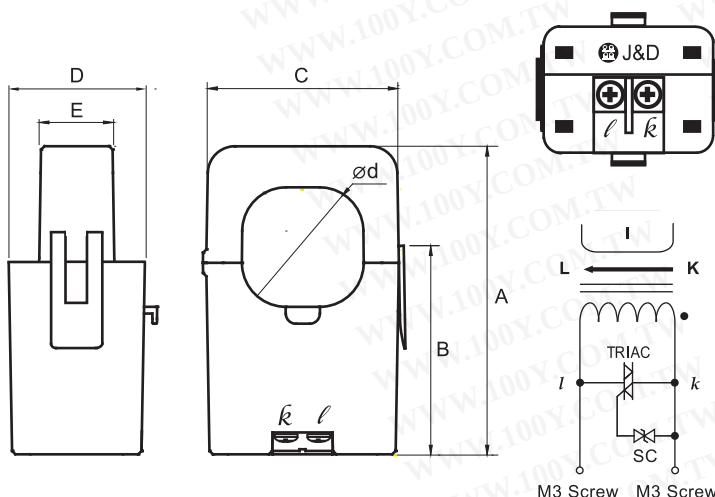
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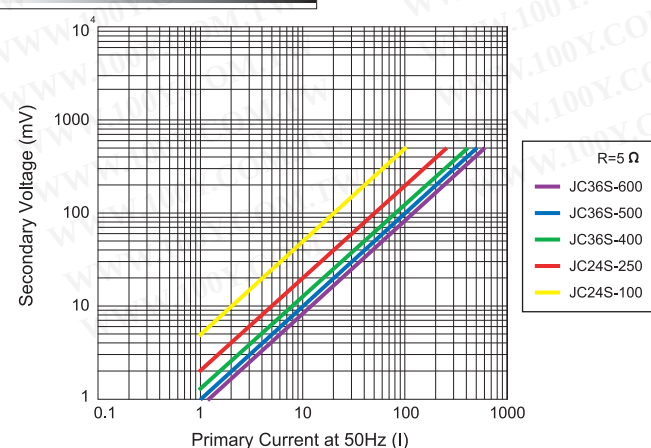
Std. Model	Ø24		Ø36		
	JC24S-100	JC24S-250	JC36S-400	JC36S-500	JC36S-600
Current Ratio	100A/1A	250A/1A	400A/1A	500A/1A	600A/1A
Output Voltage	0.5V/0.5Ω	0.5V/0.5Ω	0.5V/0.5Ω	0.5V/0.5Ω	0.5V/0.5Ω
Nominal Phase Angle Error	$+2.0 \pm 1^\circ$	$+1.0 \pm 1^\circ$	$+1.0 \pm 1^\circ$	$+1.0 \pm 1^\circ$	$+1.0 \pm 1^\circ$
Nominal Linearity Error	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$
Turns Ratio	100:1	250:1	400:1	500:1	600:1
Protection Level	6.5V0-P	6.5V0-P	6.5V0-P	6.5V0-P	6.5V0-P
Weight	162g	187g	263g	280g	300g
Operating Frequency	50 / 60Hz				
Insulation Resistance	DC500V / 100MΩ or more (between Core and Output terminals)				
Dielectric Strength	AC 2500V / 1 min. (between Core and Output terminals)				
Latch / Unlatch	about 150 times				
Output Terminals	2 × M3 Screw, with Terminals cover				
Tightening Torque	0.3N*m				
Operating Conditions	-20°C~+50°C, ≤85%RH, No condensation, In-house & Any direction installable				
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Dimension | Connection Diagram



Std. Model	Unit : mm					
	A	B	C	D	E	Ød
JC24S-xxx	74.5	52	45	34	22	24
JC36S-xxx	91	62	57	40.5	22	36

Output Voltage Data



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