

PRECISION CLAMP ON FLEXIBLE ROGOWSKI COIL CT

JRF MOI 333M Series

CE RoHS2 COMPLIANT IP67 PROBE HEAD ONLY



Clamp-on Flexible Rogowski coil Current Transducer has been designed for accurate measurement of AC current with a safe output voltage RMS. JRF MOI series is the precision current probe for Revenue-Grade Distribution transformer monitoring. With voltage integrator configuration, it can replace the existing CT directly.

APPLICATIONS

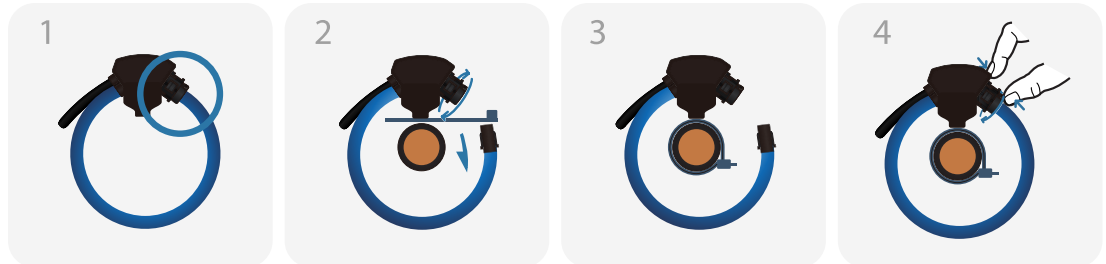
- Very high current monitoring
- DC ripple measurement
- Harmonics and transients monitoring
- Power monitoring & control systems
- Applicable in electronic Watt-hour meter



FEATURES

- $\varnothing 35 / \varnothing 55 / \varnothing 80 / \varnothing 105$ mm sensing aperture for non-contact measurement
- Very low position sensitivity
- No danger from open-circuited secondary
- High secondary output voltage & precise linearity error
- Isolated plastic case recognized according to UL94-V0

HOW TO USE

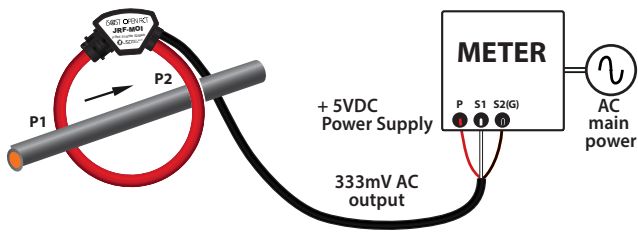


※ Please refer to “Flexible Rogowski Current Transformer Installation Guide” for further details.

SPECIFICATION

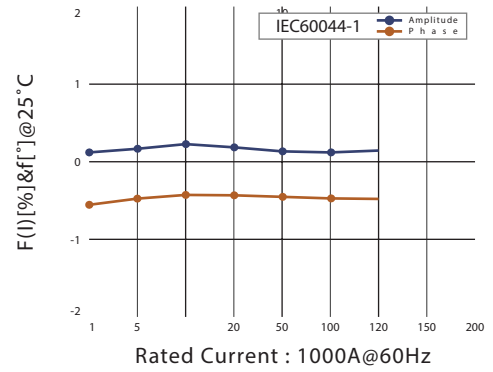
Model	JRF MOI 333M-80	JRF MOI 333M-115
Current Ratio	Input from 250 Amp to 6,000 Amp	
Rated Current	100, 150, 200, 250, 300, 400, 500, 600, 800, 1k, 1.2k, 1.5k, 2k, 2.4k, 2.5k, 3k, 4k, 5k, 6k	
Accuracy	<1% typical at 2% to 120% of rated current	
Output Signal	333mVAC	
Power Requirement	+ 5 VDC , 30mA Maximum	
Phase Shift	<1° at rated current	
Frequency	50/60Hz	
Linearity	±0.2%	
Conductor Position Sensitivity	±1% maximum	
Influence of External Field	±1.5% maximum	
Operating Temp.	-30°C ~ +80°C	
Insulation Category	CATIII 1000V, IV 600V	

OUTDOOR POWER & INDOOR POWER LOAD

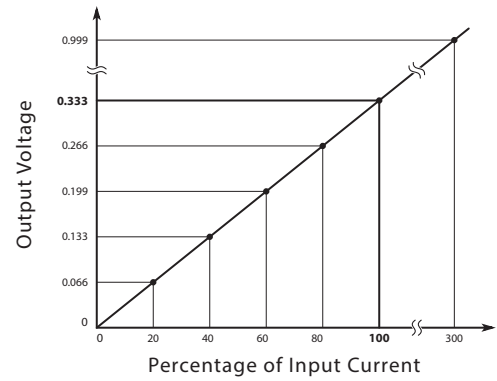


- Power source (P) : +5VDC ($\pm 5\%$), connected to S2 (Ground) (Keep (P) should be under $\pm 5\%$ of +5VDC to avoid a damage on power supply)
- Output : S1, connected to S2 (Ground)
- P : Red OUTPUT : White S2(G) : Black

LINEARITY & PHASE ANGLE ERROR GRAPH



OUTPUT VOLTAGE GRAPH



THE ROGOWSKI LOOP CIRCUMFERENCE IS 19CM

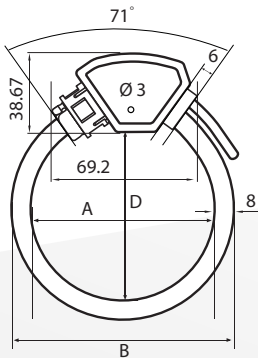


Conductor Position	Typical Error(%)
● Adjacent to the inside coil edge	< 0.5%
● Adjacent to the clip together mechanism	< 0.5%
● Central in the Rogowski loop	0.1%

Note that with a larger conductor the variation of error with conductor position will decrease and approach the calibrated value.

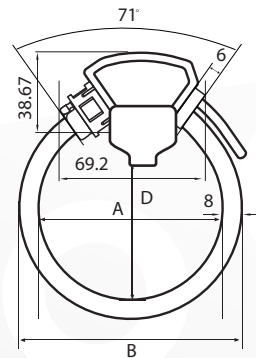
DIMENSION

(CHOOSE JRF-MOI-XXC IF YOU REQUIRE TIES FOR ATTACHING TO THE CONDUCTOR)



* Unit : mm

Model	A	B	C	D
JRF MOI 333M-80	80	96	285	80
JRF MOI 333M-115	115	141	385	115



* Unit : mm

Model	A	B	C	D
JRF MOI 333M-80C	80	96	285	70
JRF MOI 333M-115C	115	141	385	105