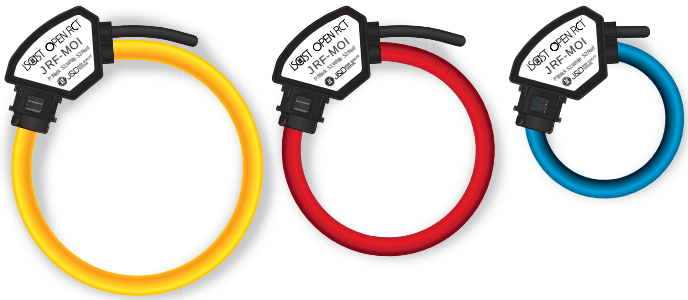
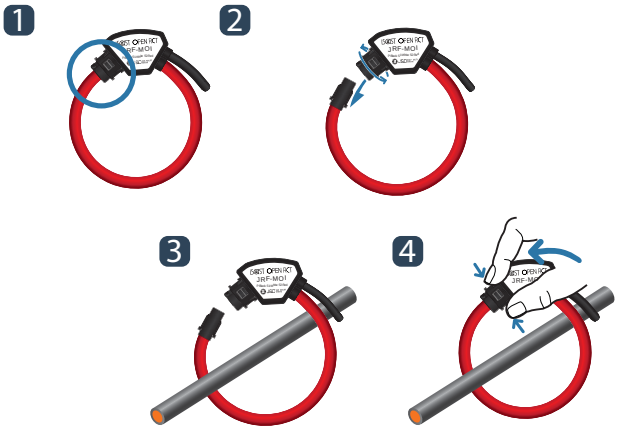
REVENUE-GRADE CLAMP-ON FLEXIBLE ROGOWSKI COIL CT

JRF MOI 333M Series



How to use >>>>



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

- Revenue-Grade distribution transformer monitoring
- Energy sub-meters
- Power meters
- Power quality monitoring
- Condition monitoring
- Distributed measurement systems

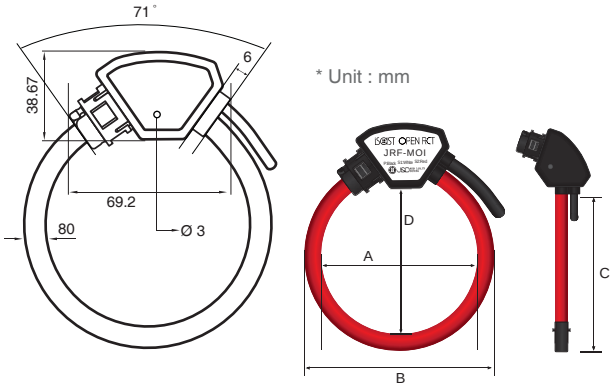
Features

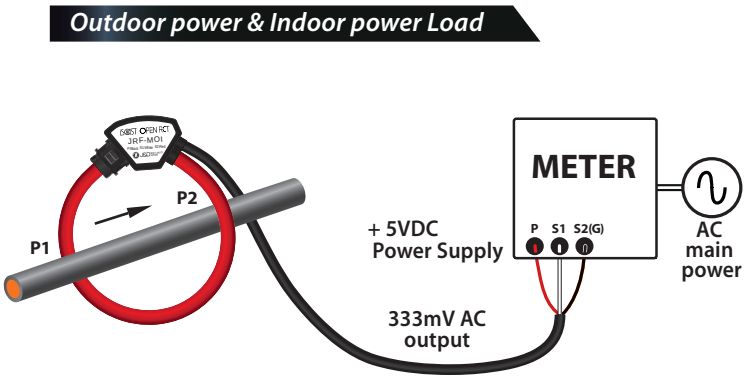
- AC current probe utility by the Rogowski principle
- Flexible and lightweight
- Easy & quick installation in uninterruptible power line
- Insulation CATⅢ 1000V, Ⅳ 600V
- Accuracy Class 0.5/1.0 complying with IEC60044-1
- Certifed for UL & CE complying with IEC 61010-1
- IP67 (International Protection code)
- Optional size is available from ID 40 to 115mm. (ex. ID 55mm)

Specification

MODEL	JRF MOI 333M-40	JRF MOI 333M-80	JRF MOI 333M-115
Current Range	Input from 100 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		
Max Output	1.3VAC		
Accuracy	<1% typical at 2% to 120% of rated current		
Output Signal	333 mVAC		
Power Requirement	+ 5 VDC , 15mA 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		
Insullation Category	CATⅢ 1000V, Ⅳ 600V		

Dimension

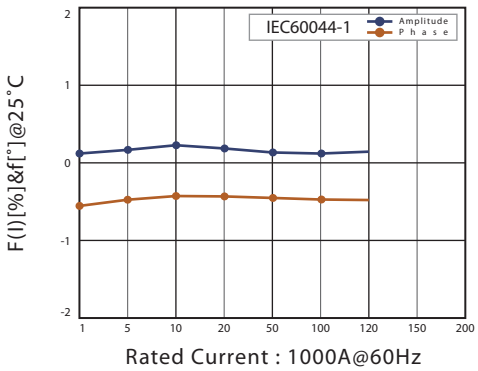




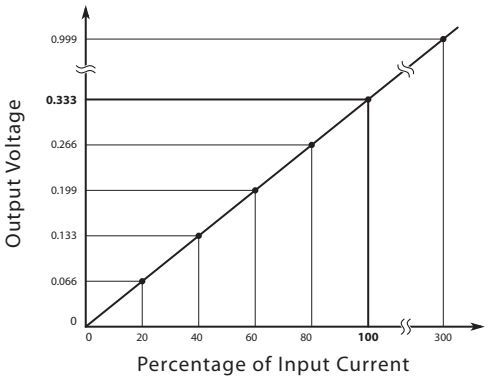
Model	A	B	C	D
JRF MOI 333M-40	58	66	185	40
JRF MOI 333M-80	80	96	285	80
JRF MOI 333M-115	115	141	385	115

- Power source (P) : +5VDC (±5%), connected to S2 (Ground)
  (Keep (P) should be under ±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 80mm

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 calivrated value.