

# CROMPTON INSTRUMENTS ANSI ROTARY SYNCHROSCOPE

## SYNCHROSCOPE INDICATOR



### APPLICATIONS

- Switchgear Panels
- Power Plants

### RELEVANT STANDARDS AND TEST REPORTS

- C-UL-US Approved E203000
- ANSI C39.1

**CLEARLY INDICATES THE SYNCHRONIZING STATE  
PRIOR TO CONNECTING POWER SYSTEMS**

### KEY FEATURES

- 360° Rotary Design
- Accuracy 2.5°
- Enhanced Safety

TE Connectivity's (TE) Crompton Instruments ANSI Rotary Synchrosopes measure and display the frequency difference between two power sources. Monitoring the display allows the user to connect two synchronized power systems together.

The rotary design gives real-time feedback on the synchronization state, ensuring a safe and reliable synchronization.

When the synchronization state is achieved, the indicator stays in the synchronizing position. The ANSI Rotary Synchroscope complies with C-UL-US Approved E203000 and ANSI C39.1 standards.

## ORDERING INFORMATION

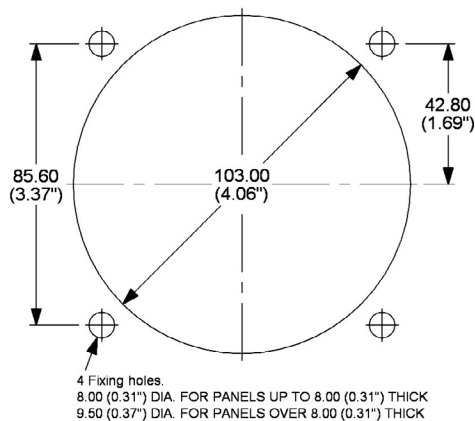
Model	Voltage Range (L-N)	Frequency
007-14A-PRAE-C7	120 V	50/60 Hz

## DESIGN DATA

### Parameters

Nominal Voltage	120 V AC
Nominal Frequency	50/60 Hz
Operating Position	Panel Mounted (Vertical)
Accuracy	2.5 degrees
Overshoot	33% maximum
Response Time	3 seconds (max) for 180° deflection
Sensitivity at Synchronization	3 degrees (electrical phase) max
Operating Temperature	-10°C to +45°C (50°F to 113°F)
Storage Temperature	-10°C to +45°C (50°F to 113°F)
Humidity	95% RH (non-condensing)
Pull-in Frequency	56 Hz (for 60 Hz operation) or 46 Hz (for 50 Hz operation)
Drop out frequency	55 Hz (for 60 Hz operation) or 45 Hz (for 50 Hz operation)
Insulation between Circuits	1.5 kV
Insulation to Case	3 kV
Overvoltage Category	II
Pollution Degree	II
Enclosure Integrity	UL94-V0
Enclosure Style	4.5" round barrel
Case Material	Polycarbonate UL94-V0
Electrical Connections	10/32" UNF (Fixing kits supplied)
Mounting Studs	1/4" UNF (Fixing kits supplied)
Dimensions in mm	109.4 x 109.4 x 101
Weight	500 g
Standards	C-UL-US Approved E203000 and ANSI C39.1

### PANEL CUT-OUT



### CONNECTION DIAGRAM

