

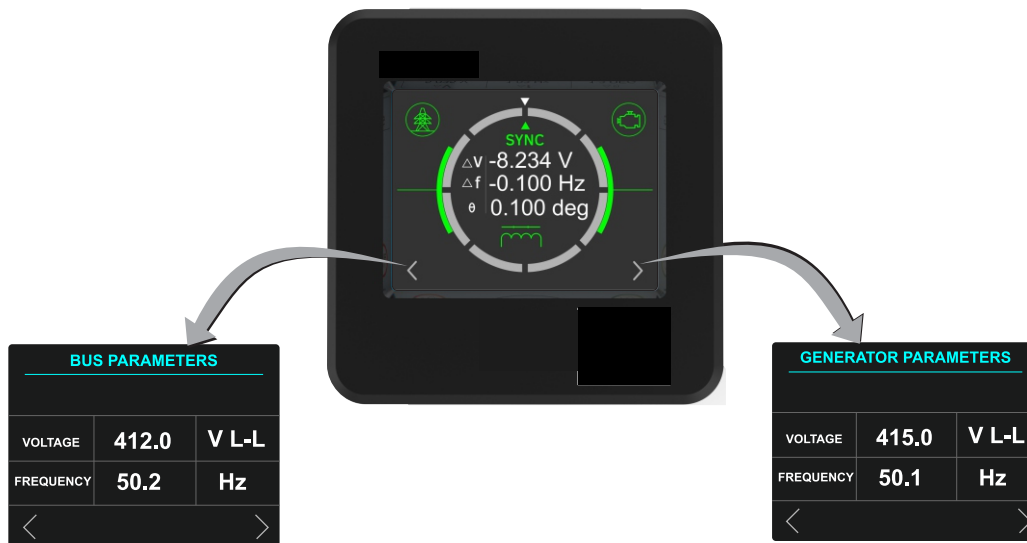
Technical Data Sheet

Platinum Series Sychroscope



Special Features

- Touch Screen Graphics display
- Potential free Relay Contact.
- Easy Navigation



ST SYNC displays actual difference of voltage, frequency & phase angle between the BUS (Reference) voltage & generator (Incoming) voltage. When two alternators or sources are to be parallel it is necessary that their frequency & amplitude should be equal and phase difference be near to zero. When all these 3 parameters are within the required limits ST SYNC indicates that the two sources can be paralleled.

Application Areas

- Synchronizing two different BUS inputs.
- Synchronizing two different Generator inputs.
- Synchronizing Generator & BUS inputs

Product Features

Touch Screen Graphics display

RISH SYNC has touch sensible color graphics LCD display with resolution of 320 x 240.

Casing Material

Thick Steel Sheet EDD grade CR material

Graphical Analysis

Graphical representation of Synchronization status.
Frequency delta & phase angle delta and voltage delta.

Measured Parameters

- Measurement of Frequency difference(BUS & Gen.) Δf .
- Measurement of Phase angle difference(BUS & Gen.) $\Delta \theta$.
- Measurement of Voltage amplitude difference(BUS & Gen.) ΔV .
- BUS voltage & BUS Frequency.
- Generator Voltage & Generator Frequency.

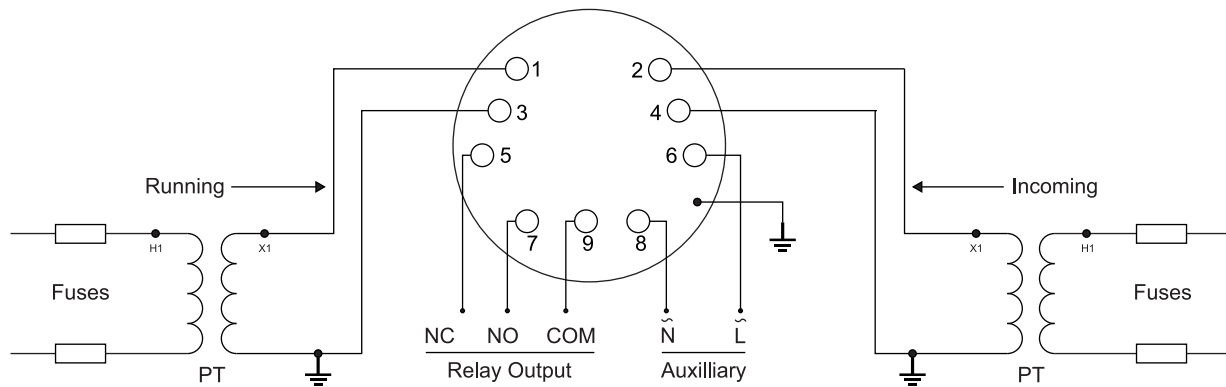
Potential free relay contact

Potential free Relay contact for indicating sync status.

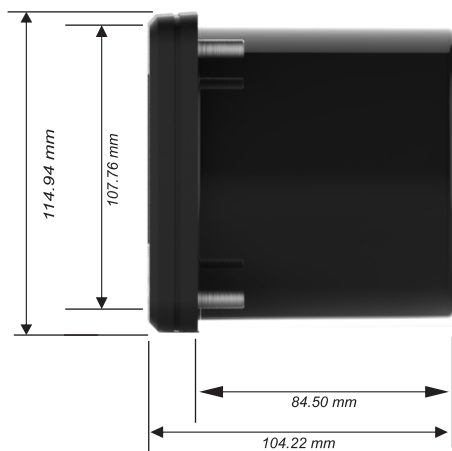
Technical Specifications:

Network Supported	Single phase / Three phase
Accuracy	
Phase Angle difference(θ)	$\pm 2^\circ$
Voltage Difference(ΔV)	$\pm 1\%$ of Nominal value
Frequency Difference(ΔF)	± 0.15 Hz
Reference Conditions for accuracy	
Ambient Temperature	23°C +/- 2°C
Input Voltage	Rated Voltage $\pm 2\%$
Input Voltage	
Nominal input voltage (AC RMS)	100 - 500 V
Max continuous input voltage	600 V
Overload Withstand	2x times of Nominal voltage for 1 second, repeated 10 times at 10 second intervals
Frequency Measuring Range	45Hz to 66Hz
Nominal input voltage burden	< 0.2 VA approx.
Auxilliary Supply	
Auxilliary Voltage & Burden	100-500 V AC/ DC, 45-65 Hz , 8VA
Display update rate	
Response time to step input	1 sec approx.
Applicable Standards	
Safety	IEC 61010-1-2010, Permanently connected use
IP for water & dust	(IP 54 for Front) IEC 60529
Pollution degree:	2
Installation category:	III
Isolation between running & incoming circuits	2kV RMS for 1 minute
Environmental Conditions	
Other information	
Operating temperature	-10 to +55°C
Storage temperature	-20 to +65°C
Relative humidity	0... 95% non condensing
Warm up time	Minimum 3 minute
Shock	15g in 3 planes
Vibration	10... 150.... 10 Hz, 0.075mm amplitude
Temperature Coefficient	0.05%/°C
Relay Contact (For Sync Status)	
Contact Rating	240 VAC, 5 A

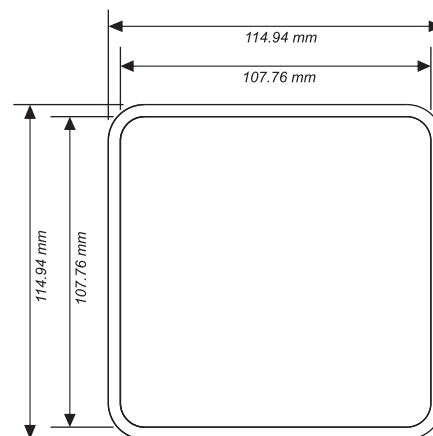
Electrical Connections



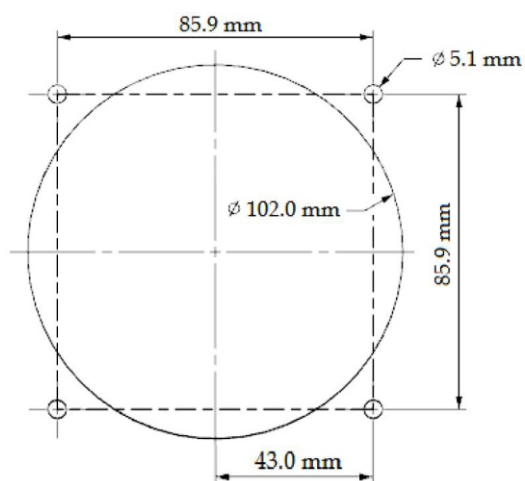
Dimensional Details



Side View



Front View



Panel Cutout

