



## STC144 110V

STC144 110V, Synchronoscope

Code: M14445.

- > System: Three-phase
- > Accuracy: 1,5
- > Measurement Range (V): 110
- > Device: STC144
- > Modules: 144x144

### Description

- Does not need an auxiliary power supply
- DIN box with dimensions: 96 and 144 mm
- Class 1
- For single and three-phase circuits
- Does not need an auxiliary power supply
- DIN box with dimensions: 72 and 96 mm
- Class 1.5
- Built-in voltage relay
- Low consumption

### Application

To provide a correct reading of the difference between the frequency and phase angle between two generators or a generator and the network, when connected in parallel. When the difference is zero, the instrument's needle does not move from the synchronization mark located in the centre of the scale.

The instrument scale is divided in two areas marked with the (+) and (-) signs. These signs indicate whether the machine being connected has a higher or lower frequency than the other one, respectively. Synchronism is achieved when the needle is on the (-) side, slowly turning towards (+). The needle of the instrument starts to turn in the correct direction when the difference in frequencies is 1.5 Hz for three-phase systems or 0.5 Hz for single-phase systems.



# STC144 110V

Synchronization and marine applications equipment

Code: M14445.

## Specifications

### Electrical characteristics

|                    |           |
|--------------------|-----------|
| Frequency          | 50/60 Hz. |
| Permanent overload | 1,2 Un    |

### Mechanical characteristics

|                                  |                      |
|----------------------------------|----------------------|
| Size (mm) width x height x depth | 144 x 144 x 102 (mm) |
| Fastening                        | Panel                |
| Weight (kg)                      | 1,96                 |

### Environmental characteristics

|                       |                |
|-----------------------|----------------|
| Operating temperature | +10 ... +30 °C |
|-----------------------|----------------|

### Standards

|                                       |      |
|---------------------------------------|------|
| Electrical safety, Maximum height (m) | 2000 |
|---------------------------------------|------|

### SMC / STC Synchroscope

| CODE         | TYPE        | Accuracy | Modules | Device |
|--------------|-------------|----------|---------|--------|
| Single-phase |             |          |         |        |
| M14432.      | SMC96 230V  | 1,5      | 96x96   | SMC96  |
| M14433.      | SMC96 400V  | 1,5      | 96x96   | SMC96  |
| M14434.      | SMC96 500V  | 1,5      | 96x96   | SMC96  |
| M14441.      | SMC144 110V | 1,5      | 144x144 | SMC144 |
| M14442.      | SMC144 230V | 1,5      | 144x144 | SMC144 |
| M14443.      | SMC144 400V | 1,5      | 144x144 | SMC144 |
| M14444.      | SMC144 500V | 1,5      | 144x144 | SMC144 |
| Three-phase  |             |          |         |        |
| M14435.      | STC96 110V  | 1,5      | 96x96   | STC96  |
| M14436.      | STC96 230V  | 1,5      | 96x96   | STC96  |
| M14437.      | STC96 400V  | 1,5      | 96x96   | STC96  |
| M14438.      | STC96 500V  | 1,5      | 96x96   | STC96  |
| M14445.      | STC144 110V | 1,5      | 144x144 | STC144 |
| M14446.      | STC144 230V | 1,5      | 144x144 | STC144 |
| M14447.      | STC144 400V | 1,5      | 144x144 | STC144 |
| M14448.      | STC144 500V | 1,5      | 144x144 | STC144 |



## STC144 110V

Synchronization and marine applications equipment

Code: M14445.

## Connections

