



## SMC144 400V

SMC144 400V, Synchronoscope

Code: M14443. DESCATALOGADO

- > System: Single-phase
- > Accuracy: 1,5
- > Measurement Range (V): 400
- > Device: SMC144
- > 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.



## SMC144 400V

Synchronization and marine applications equipment

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### Specifications

#### Electrical characteristics

Frequency	50 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)	2,25

#### Environmental characteristics

Operating temperature	+10 ... +30 °C
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#### Standards

Electrical safety, Maximum height (m)	2000
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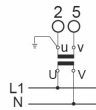
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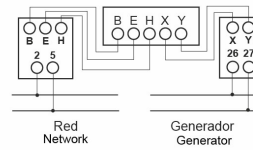
## Connections

### Esquemas de conexión Connections diagrams



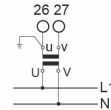
Connection:  
Conexión:

Voltage transf.  
Transf. Tensión



Red Network      Generator  
Directa / Direct

### Monofásico (400,440,500 V) Single-phase



Voltage transf.  
Transf. Tensión