



SMC144 500V

SMC144 500V, Synchronoscope

Code: M14444.

- > System: Single-phase
- > Accuracy: 1,5
- > Measurement Range (V): 500
- > 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.



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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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SMC / STC
Synchronoscope

CODE	TYPE	Accuracy	Modules	Device
Single-phase				
M14431.	SMC96 110V	1,5	96x96	SMC96
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



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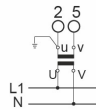
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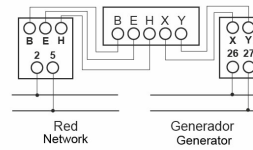
Connections

Esquemas de conexión Connections diagrams



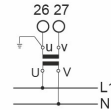
Connection:
Conexión:

Voltage transf.
Transf. Tensión



Red Network
Generador
Generator
Directa / Direct

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



Voltage transf.
Transf. Tensión