

DC-750-T

Three-Phase Shifter



SMC
EURO

DC-750-T

CHARACTERISTICS

- Electromechanical based unit with a digital meter.
- 3 measurement functions:
 - Phase angle (degrees).
 - Power factor (Cosφ).
 - Frequency measurement (Hz).
- Resolution: $\pm 0.01^\circ$.
- Accuracy: $\pm 0,5^\circ$.

APPLICATIONS

- To shift the phase angle in any phantom load application.



DESCRIPTION

The three phase shifter DC-750-T is a electromechanical based unit with a digital meter for the phase angle value.

It is a single unit reduced in size, with wheels for easy transport.

Various input and output voltage options can be ordered.

FUNCTION

The phase shifter is operated by a regulation knob, with a range of 0-360°. Contained is a digital phase angle meter (SM-45-F2) which is microprocessor controlled and measures the phase angle between input and output voltages with a high accuracy.

It also measures the power factor (Cosφ), calculated from the measured angle value. As well, measures the frequency from 20 to 100.0Hz.

APPLICATION

The phase shifter works in all types of three phase phantom load circuits and can be used to work with any factor between 0 and ± 1 .

The use of this phase shifter is essential in testing power protections, power measurements transducers, wattmeters, power factor meters, energy meters and in general, any type of test that implies the electrical power concept.

TECHNICAL SPECIFICATIONS

Voltage Supply (various options): (Delta conection)	3 x 380V $\pm 10\%$ 50-60Hz 3 x 220V $\pm 10\%$ 50-60Hz 3 x 110V $\pm 10\%$ 50-60Hz
Output (various options): (Star conection)	3 x 380 / 220V 50-60Hz 3 x 220 / 127V 50-60Hz 3 x 110 / 63.5V 50-60Hz
Input/Output:	Delta/Star
Nominal Power:	3 x 250VA (DC-750-T)
Phase Angle Range:	0 - 360°
Phase Angle Meter:	Measurement Range: $\pm 180^\circ$ Accuracy: $\pm 0.5^\circ$
Power Factor Measurement:	Measurement Range: ± 1.000 (calculated from the measured angle) Accuracy: $\pm 0.5\%$
Frequency Measurement:	Measurement Range: 20-100.0Hz $\pm 0.02\% \pm 1$ digit Accuracy: 0.02% ± 1 digit

DIMENSIONS

Height:	225 mm / 9"
Width:	400 mm / 16"
Depth:	520 mm / 21"
Weight:	40 Kg / 80 lb

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