

Built In Transducer Type Analogue Power Factor Meter



DATA SHEET NO. BIPF / 09 / 99



DESCRIPTION

Power Factor meter indicates the cosine of phase angle between current and voltage. Input voltage & current signals are applied to phase sensing zero crossover circuitry & amplifier. It delivers direct current proportional to phase angle. Which drives a moving coil movement. The indication is cosine function of phase angle.

FEATURES

- ◆ Built in Transducer.
- ◆ Panel wiring is reduced.
- ◆ Low VA burden.

ELECTRICAL SPECIFICATIONS

- ◆ TYPE : a) Single Phase b) Three Phase - Single Element
- ◆ OPERATING VOLTAGE : 110V ~ 125V , 220V ~ 250V, 380V ~ 440V (P.T.Secondary) $\pm 20^\circ$
- ◆ OPERATING CURRENT : 1A OR 5A (C.T. Secondary)
- ◆ MEASURING RANGE : a) 0.5 (lead) -1.0 - 0.5 (lag)
b) 0.5 (lag) -1.0 - 0.5 (lead)
c) 0.7 (lead) -1.0 - 0.3 (lag)
- ◆ FREQUENCY : 50Hz. or 60Hz. ± 5 Hz.
- ◆ ACCURACY : $\pm 2^\circ$
- ◆ VA BURDEN : Voltage 0.5VA, Current 1VA
- ◆ INSULATION RESISTANCE : Greater than 20M Ω at 500V DC
- ◆ DIELECTRIC TEST : 2kV RMS for 1 minute.
- ◆ OPERATING TEMP. : 0°C to 55°C
- ◆ STORAGE TEMP. : -20°C to 70°C
- ◆ HUMIDITY : Up to 95% RH
- ◆ CONFORMS TO : I.S. 1248 / I.E.C. 60051 (Part - 5)

MECHANICAL SPECIFICATIONS

MODEL	BIPF SM 96	BIPF SQ 96	BIPF SM 144	BIPF SQ 144
SIZE (mm)	96 X 96 X 65	96 X 96 X 65	144 X 144 X 70	144 X 144 X 70
PANEL CUTOUT (mm)	92 X 92 ^{+0.8}	92 X 92 ^{+0.8}	138 X 138 ^{+1.0}	138 X 138 ^{+1.0}
SCALE LENGTH (Approx. mm)	90	155	140	230
WEIGHT (Approx. gms.)	300	400	700	650

Ordering information

1) Type 2) Model 3) Operating Voltage 4) Operating Current 5) Measuring Range