



POWER FACTOR MEASURING DEVICES – ELECTRONICAL

Application:

Power factor measuring devices serve to measure the ratio between active power and apparent power in A. C. mains and three-phase current mains of 50 c.p.s., 60 c.p.s. or 400 c.p.s. sinusoidal. Usually the power factor is to be measured single-phase in three-phase current mains.

Meters and electronics:

- Nuclear magnetic moving-coil meter
- One null comparator of current and voltage
- Independent of any external fields

Design:

Power factor measuring devices are manufactured according to DIN EN 60 051 as well as to further VDE and DIN directions applicable. The precision amounts to 1,5 % referred to the scale length. Regarding the path of current the own consumption amounts to about 0,6 VA whereas that one in the voltage path reaches about 2 VA.

The auxiliary voltage for the supply of the electronics is gained from the measuring voltage. The voltage range amounts to +/- 20 % of the rated voltage, the current range extends from 20 % up to 120 % of the rated current. If these values are exceeded one has to reckon with indication errors which will be more important than the class precision. Currents < 5 % of the nominal value will result in an uncontrolled indication.

In case of the size 96 DIN the electronic is installed whereas for all other constructions it is placed in a separate housing (measuring transducer). In this case the output to the connection of the indicator amounts to 20 mA.

The inputs permanently can be overcharged 1,2-fold and up to 20-fold for a short period in the current path. As for the rest DIN EN 60 051 will be applicable.

The connection (max. 4mm²) will be effected to clamping screws.

Accuracy:	According to DIN EN 60 051 class 1,5
Test voltage:	2 kV
System of protection:	According to DIN EN 60 529
	Front side IP 52, in special design IP 54
	Terminals shock-proof, IP 10

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