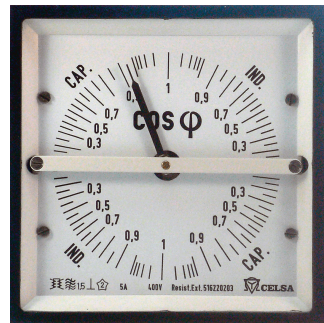


ANALOGUE MEASURING INSTRUMENTS

DPQ - Power factor meter



DPQ/1



DPQ/3

- Class 1.5
- For alternating current 50 or 60 Hz

Description

The DPQ are used for power factor ($\cos \phi$) measurement. There are versions for single-phase and three-phase AC, for balanced or unbalanced load. Versions .../2 and .../3 are suitable for lines with or without neutral. The frequency is 50 or 60 Hz. The DPQ.../1 y .../2 are used for crossed-coils electrodynamic system. The DPQ.../3, a moving-iron quotientmeter. All of them are equipped with eddy-current damping, pivot suspension and spring-loaded jewel bearings (without spring for DPQ.../3) for vibration and shock resistance. DPQ types have neither mechanical restoring torque non zero adjuster. Therefore, the pointer has not a determinate position when the instrument is disconnected.

Scales

Non-linear 90° (DPQ.../1 and /2) or 360° (DPQ.../3) scales. Coarse-fine division. The DPQ.../3 is able to measure the power factor in the four quadrants (active power exported or imported, with inductive or capacitive power factor).

Standard scale execution:

- cap. 0,5-1-0,5 ind.
- cap. 0,8-1-0,3 ind.
- cap. 0,8-1-0,8 ind.

Technical Features DPQ/1/2

| Front frame | (mm) | 96 x 96 | |
|-------------------------------|-------------------------------------|-------------------------------------|-----------|
| Scale length | (mm) | 97 | |
| Consumption | Current 5A Current 1A Voltage | max. 1 VA max. 1 VA max. 3 VA | |
| Voltage U (V) | | Current I (A) | Type |
| Single-phase AC | | ~ | DPQ 96n/1 |
| 57,5 - 100 - 110 - 120 | | 5 1 | ● |
| 220 - 230 - 240 | | | |
| 380 - 400 | | | |
| 440 - 500 | | | |
| Three-phase AC, balanced load | | ≡ | DPQ 96n/2 |
| 57,5 - 100 - 110 - 120 | | 5 1 | ● |
| 220 - 230 - 240 | | | |
| 380 - 400 | | | |
| 440 - 500 | | | |
| Terminal cover | | | ● |

Technical Features DPQ/3

| Front frame (mm) | | 96 x 96 |
|----------------------------------|-------------|------------|
| Scale length (mm) | | 200 |
| Weight (g) (with external shunt) | | 1450 |
| Consumption | | max. 30 mA |
| Volatge U (V) | Current (A) | Type |
| Three-phase AC, unbalanced load | 20 ... 120% | DPQ 96s/3 |
| 100 - 110 | 5 1 | ● |
| 230 ±15 | | ● |
| 400 | | ● |
| 440 | | ● |
| Terminal cover | | ○ |

● available ○ on request

On request: other dimensions

Connection diagrams see page 4/16.

Dimensions in mm / Weight in gramme

| Type | a | c | d | e | g | h | Ø | Weight |
|---------------|----|-----|-----|--------------------|----|---|----|--------|
| DPQ 96n/1, /2 | 96 | 55 | 65 | 92 ^{+0,8} | 40 | 5 | M4 | 600 |
| DPQ 96s/3 | 96 | 125 | 151 | 92 ^{+0,8} | 10 | 5 | M4 | 1450 |

