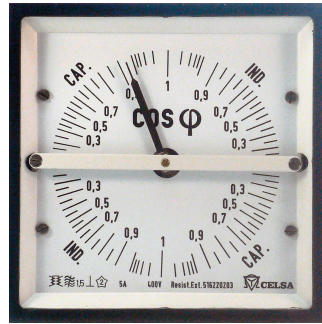


ANALOGUE MEASURING INSTRUMENTS

DPQ - Electronic Power Factor Instruments



DPQ/1



DPQ/3

Description DPQ/1/2 with moving coil movement

These instruments measure the $\cos \phi$ value (power factor). Our types DPQ...n/1 and DPQ...n/2 have a moving coil movement with 90° scale.

Standard scale execution:

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

The type DPQ/1/2 measures the power factor in a three-phase network with balanced load.

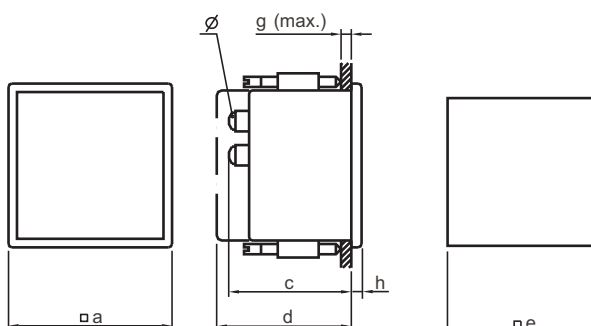
Description DPQ/3 with induction quotient movement:

The type DPQ.../3 has an induction quotient movement and is used to measure the power factor in three phase equal or unequal loaded nets with or without zero conductor. The scale is 360° to collect all values of $\cos \phi$ capacitive or inductive imported or exported energy.

Minimun: $I_{min} = I_N \times 0.2$

Housing dimensions power factor meter

Dimensions in mm / Weight in gramme							
Type	a	c	d	e	g	h	Ø
DPQ 72n/1 -/2 from 240 V	72	55	65	68 ^{+0.7}	40	4,6	M4
until 380 V	72	106	132	68 ^{+0.7}	40	4,6	M4
DPQ 96n/1 -/2 from 240 V	96	55	65	92 ^{+0.8}	40	5	M4
until 380 V	96	106	132	92 ^{+0.8}	40	5	M4
DPQ 144n/1 -/2 from 240 V	144	53	63	138 ⁺¹	40	5,5	M4
until 380 V	144	53	63	138 ⁺¹	40	5,5	M4
DPQ 96s/3	96	125	151	92 ^{+0.8}	10	5	M4
DPQ 144s/3	144	136	162	138 ⁺¹	10	5	M4



- With moving coil movement or induction quotient movement
- Class 1.5
- For alternating current 50 - 60 Hz

Technical Features DPQ/1/2

Front frame (mm)	72 x 72	96 x 96	144 x 144	
Scale length (mm)	61	97	146	
Weight (g)	550	600	800	
Consumption				
Current path 5 A	max. 1 VA	max. 1 VA	max. 1 VA	
Current path 1 A	max. 1 VA	max. 1 VA	max. 1 VA	
Voltage path	max. 3 VA	max. 3 VA	max. 3 VA	
Voltage U (V)	Current path I (A)	Type	Type	Type
One phase alternating current	~	DPQ 72n/1	DPQ 96n/1	DPQ 144n/1
57,5 - 100 - 110 - 120	5	●	●	●
220 - 230 - 240		●	●	●
380 - 400		●	●	●
440 - 500	1	●	●	●
Three-phase current balanced load	≅	DPQ 72n/2	DPQ 96n/2	DPQ 144n/2
57,5 - 100 - 110 - 120	5	●	●	●
220 - 230 - 240		●	●	●
380 - 400		●	●	●
440 - 500	1	●	●	●
Terminal cover		●	●	●

● available ○ on request

Technical Features DPQ/3

Front frame (mm)	96 x 96	144 x 144		
Scale length (mm)	200	320		
Weight (g) (with external shunt)	1450	2400		
Consumption	max. 30 mA	max. 3.5 VA		
Voltage U (V)	Current path I (A)	Type	Type	
Three-phase current balanced load	≅	DPQ 96s/3	DPQ 144s/3	
100 - 110	20 ... 120%	●	●	
230 ±15				5
400				1
440	1	●	●	
Terminal cover		○	○	

● available ○ on request

Diagrams of connecton see page 4/19.