ANALOGUE MEASURING INSTRUMENTS

DQ..n/b - Varmeters Power Reactive



- For alternating current 50-60 Hz
- Class 1.5
- Scale 90°

Description

DQ varmeters are used for reactive power measurement. There are versions for single-phase AC and three-phase with 3 or 4 wires for balanced and unbalanced loads. The frequency range is 50 - 60 Hz.

Ferrodynamic system, with one measuring element for DQ/1wb, DQ/1db and DQ/1b; two elements for DQ/2 (aron system), and 2 ^{1/2} elements for DQ/3b. Eddy-current damping, with pivot suspension and spring-loaded jewel bearings for vibration and shock resistance.

Consumption

The consumption per current path is < 0,2 VA

The current consumption in the voltage path is < 3.9 VA

Scales

90° scale, practically linear. Coarse-fine division-The full-scale value must be between 0.2 and 2 times rated apparent power, which is calculated as follows:

- For single-phase AC:
 S(W) = Primary voltage (V) x Primary current (A)
- For three-phase AC:
 S(W) = √3x Primary line-to-line voltage (V) x Primary current (A)

Unless otherwise indicated, the full-scale value is calculated by rounding S down to one of the following standard value: 1 - 1,2 - 1, 5 - 2 - 2,5 3 - 4 - 5 - 6 - 7,5 - 8 or their decimal multiples.

On request: Zero center. Por example, -100-0-100kW

Overload capacity according to DIN 43780

Overload capacity continuously 1,2 l_n.

Dimensions in mm									
Туре	а	С	е	g	h	Ø			
DQ96n/1wb, /1db, /1b	96	134	92+0,8	40	5,5	M4			
DQ96n/2b, /3b	96	134	92+0,8	40	5,5	M4			
DQ144n/1wb, /1db, /1b	144	134	138 +1	40	5,5	M4			
DQ144n/2b, /3b	144	134	138 +1	40	5,5	M4			

Technical Features								
Fro	nt frame	(mm)		96 x 96	144 x 144			
Sco	ıle length	(mm)		97	146			
We	eight	(g)		a = 460 b = 510 c = 695 d = 725	a = 720 b = 770 c = 960 d = 990			
Me	asuring range	U (V)	I (A)	Туре	Туре			
	gle-phase AC	- (. /	. (/	DQ96n/1wb	DQ144n/1wb			
a	~	57,7 - 63,5 100 - 110 - 127	5	•	•			
		230 - 400	1	•	•			
	ee-phase AC, t anced load	hree wires,		DQ96n/1db	DQ144n/1db			
		100 - 110 - 230	5	•	•			
b	≋	400 440 - 500	1	•	•			
	ee-phase AC, t oalanced load	hree wires,		DQ96n/2b	DQ144n/2b			
С	≋	100 - 110 - 230 400	5	•	•			
Č	~	440 - 500	1	•	•			
Three-phase AC, four wires, balanced load			DQ96n/1b	DQ144n/1b				
d	≋	100 - 110 - 230 400	5	•	•			
		440 - 500	1	•	•			
	ee-phase AC, f oalanced load	our wires,		DQ96n/3b	DQ144n/3b			
е	≋	100 - 110 - 230 400	5	•	•			
C	-,~	440 - 500	1	•	•			

• available O on request

Connection diagrams see page 4/16.



