# ANALOGUE MEASURING INSTRUMENTS





SQ...s

SQ96n

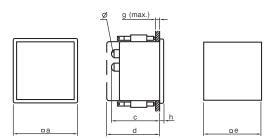
### Description SQ... analogue

This instrument use a moving-iron rationmeter, with eddy-current damping. Only when the pointer stops on the scale mark, the frequencies and phase angles of the voltages of both generatos are the same. If it stops on another point, there is phase displacement between both voltages or at least one generator is disconnected. When the frequency difference is less than approximately 1.5Hz, the pointer rotates in the direction marked as "+" (if the frequency of the generator G2 is higher than the frequency of G1) or in the direction marked as "-" (if the frequency of G2 is lower).

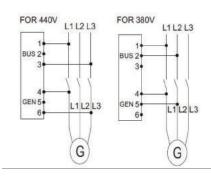
### Description SQ... digital

This instrument shows as well the phasing and the frequency of two current circuits to each other. Only if phasing and frequency are the same the green LEDs are flashing in the middle on the top. When there are different phasings or frequencies the red LEDs are flashing, depending on degree of deviation per size of difference more on the left or more on the right.

Dimensions in mm / Weight in gramme										
Туре	a	с	d	е	g	h	Ø	Weight		
SQ96n/1 -/2	96	107	119	92 +0,8	40	5	M4	680		
SQ96s/1 -/2	96	136	76	92 +0,8	10	5	M4	1100		
SQ144s/1 -/2	144	136	95	144+1	1	5,5	M4	1800		



#### Connection diagrams: SQ96n LED execution





- For alternating current 50-60 Hz
- Analogue execution
- Digital LED execution

Technical Features								
Marco (mm)	96 x 96	96 x 96	144 x 144					
Measuring range U (V)	Digital type	Analogue type	Analogue type					
Single-phase AC	SQ 96n/1	SQ 96s/1	SQ 144s/1					
Consumptiom	max.6 VA	5 VA	max.25 mA					
100 / Ã3* 100 / Ã3* 100 - 110* 230*								
Three-phase, 3 wire balanced load	SQ 96n/2	SQ 96s/2	SQ 144s/2					
Consumption	max.6 VA	5 VA	max.25 mA					
100 110 230* 400* 440*	• • •	•						
Terminal covers	-	•						

• available O on request

\*with separated series resistor (external) / only analogue type

## Connection diagrams: SQ96s/SQ144s analogue execution

