ANALOGUE MEASURING INSTRUMENTS

EQ - Moving iron instruments



- For alternating current 15 100 Hz
- Class 1.5



Description

The moving-iron panel meters are mainly used for measuring AC currents and voltages in the frequency range of 15 ... 100 Hz. They indicate the rms value of the wave, even with high harmonics, with a minor ininfluence on the accuracy. Our instruments are normally calibrated for sinusoidal AC.

For current above 100A or high voltages, the instruments must be connected through measuring transformers.

Movin iron instruments can be connected in any order without observation of polarity (ki) on the current transformer.

Electical Data

 Overload capacity according to DIN 43780

 Continuously
 1,2 times rated value

 Short duration
 10 x IN 5 s in ammeters

 2 x UN 5 s in voltmeters

The setting time is approximately 1 minute.

Consumption

Ammeters up to 15 A	0,5 VA
Ammeters more than 15 A	0,8 VA
Voltmeter between	1 - 4,5 VA

Moving iron instruments

Moving-iron movement with silicone oil damping. Pivot suspension with spring loaded jewel bearings for vibration and shock resistance.

Scales

90° scale, cmpressed at the beginning. Coarse-fine division. For ammeters with overload scaling, it covers between 10% (for 1,21n) y el 35% (for 51n) of the total scale lenght.

Mounting in DIN rail (EQ35n)

For measuring current and voltage in panel boards with 35 mm DIN rail according DIN 50 022.

Dimensions: 85 x 45 x 65 mm / Weight: 0.1 Kg

The instruments of this line are adapted by their dimensions to common installations devices. The installation width of the instruments of 45 mm corresponds approx. for 3 units. They can easily mounted on DIN rail bars by snap on mounting.

The terminals are protected against accidental contact. The movin iron meter is jewelled with silicon oil damping.

Comsumption

Amperímetro	max. 0,5 VA
Voltímetro	max. 2,5 VA

Table for norm scales of voltmeters for connection to voltage transformer

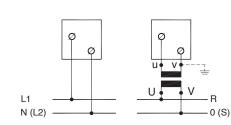
	sec. 100 V or 110 V				
* Voltmeter for connection to voltage transformer:	Prim.Ra	ted Voltage	Scale		
indisionner.	500	V	0 600 V		
	600		0 720 V		
	1	KV	0 1,2 KV		
	3	KV	0 3,6 KV		
The final scale value is 1.2 times the rated	-	KV	0 6 KV		
voltage, for example:	-	KV	0 7,2 KV		
for connection to transformer sec. 100 V		KV	0 12 KV		
		KV	0 18 KV		
the measuring range is 0120 V		KV KV	0 18 KV 0 24 KV		
for connection to transformer sec. 110 V		KV	0 24 KV 0 30 KV		
the measuring range is 0132 V		KV	0 36 KV		
me measuring range is 0102 v		KV	0 40 KV		
Please indicate primary voltage, scale and	60	KV	0 72 KV		
secondary voltage when ordering.	100	К	0 120 KV		



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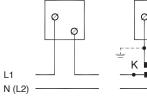
Standard measuring ranges						
AC Voltages		AC Current				
6 V	(except EQ35n)	100 mA				
10 V	(except EQ35n)	150 mA				
15 V	(except EQ35n)	250 mA				
25 V	(except EQ35n)	400 mA				
40 V	(except EQ35n)	600 mA				
60 V	(except EQ35n)	1 A				
100 V		1.5 A				
120 V		2.5 A				
132 V	(except EQ35n)	4 A				
150 V		5 A				
250 V		6 A				
300 V		10 A				
400 V	(except EQ35n)	15 A				
500 V		20 A (except EQ35n)				
600 V	(except EQ35n)	25 A (except EQ35n)				
750 V (e	except EQ48n/EQ35n)	30 A (except EQ35n)				
		40 A (except EQ35n)				
		50 A (except EQ35n)				
		60 A (except EQ35n)				
		100 A (except EQ48n/EQ35n)				
For connection to voltage		For connection to current				
transformer		transformer				
/100 V secondary		/1 A secondary				
/110 \	/110 V secondary/5 A secondary					
Other measuring ranges on request.						

Connection diagrams



Ammeter:

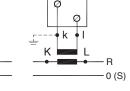
Voltmeter:



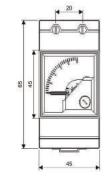
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N

62



Dimensions EQ35n:



21

Cons Amm

Amm Voltm Voltm

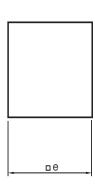
Voltm

Dimensions in mm / Weight in gramme									
Туре		a	с	d	е	g	h	Ø	Weight
EQ 48n	> 30 A	48	64	72	45 ^{+0,6}	28	5	M6	155
	others	48	54	62,5	45 ^{+0,6}	28	5	M4	145
EQ 72n	> 60 A	72	68	76	65 ^{+0,7}	8*	5	M8	230
	30< I < 60 A	72	64	76	65 ^{+0,7}	8*	5	M6	210
	others	72	60	76	65 ^{+0,7}	8*	5	M4	190
EQ 96n	> 60 A	96	68	76	92 ^{+0,8}	8*	5	M6	300
	25 < I < 60 A	96	64	76	92 ^{+0,8}	8*	5	M8	280
	others	96	60	76	92 ^{+0,8}	8*	5	M4	250
EQ 144n	> 60 A	144	67	75	138 +1	41	8	M6	450
	30< I < 60 A	144	62	69,5	138 +1	41	8	M8	430
	others	144	54	62	138 +1	41	8	M4	400

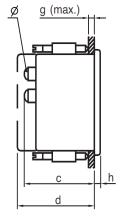
*26 mm with screw clamps

Fixing clamps included without extra charge

Dimensions:







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