FQ3x07 Moving-iron multi voltmeter

₹ FQ - MOVING-IRON PANEL VOLTMETER

FEATURES:

- For measurement of phase and line-to-line voltages in three phase system
- Easy selecting of desired voltage with a selector switch
- Good read-out survey on larger distance
- Resistance to mechanical vibrations
- Protective cover for terminals (optional)



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Iskra MIS, d.d.

Picture 1: Voltmeters for a.c. voltage FQ3x07

TECHNICAL DATA

ACCURACY:

•	accuracy class	1,5	
	·····	9-	

DESIGN:

•	Material of housing: P	С
	uninflammable, according to UL 94 V-	0

- Enclosure protection:Case IP 52, terminal contacts IP 00
 (IP 20 for connection terminals)
- A ccording to **EN 60529**: 1989 Operating position Vertical
- Test voltage 2 kV rms
- in accordance with EN 61010-1: 1990
 Consumption: Voltmeters 1.5 ... 4 VA

AMBIENT CONDITIONS JVF (DIN 40 040)

•	Climatic conditions:	Standards EN 60051-1: 1995/01
		EN 60051-2: 1984
		EN 60051-9 : 1988
•	Temperature:	
	Reference range of ope	eration $+18 \dots +28^{\circ}C$
	Nominal range of oper	-25 +55°C
	Storing	-40 +70°C
•	Humidity	up to 80% (without condensing)

APPLICATION

Moving-iron instruments are intended for installation in supervision panels of power distribution and transformer stations or wherever a.c. voltages are to be measured.

CONSTRUCTION

The mechanism is a sprung pivot bearing type with silicon oil damping.

They work in a range from 15 Hz to 100 Hz and measure true RMS values independently on the signal form of voltage.

A non-linear graduation at the beginning of the scale allows reading from approximately 15 % of measuring range onwards.

It is possible to choose between two different sizes:

- FQ3207 front frame dimensions are 96 x 96 mm
- FQ3307 front frame dimensions are 72 x 72 mm

MEASURING RANGE:

Voltmeters

Measuring range (V)	6	10	15	25	40	60	100	150	250	400	600

Measuring range (V) for connection to transformer

Instruments for connection to instrument transformers have the following ratings:

1-1.2-1.5-2-2.5-3-4-5-6-7.5 (8) and decade multiples.

DIMENSIONAL DRAWINGS:



Picture 2: Dimensional drawing FQ3x07, (all dimensions are in mm)

3) Protective cover (on special request)

SCALE



Picture 2: Drawing of scale: Normal version

Туре		FQ3207	FQ3307
Bezel height (mm)	□ a	96	72
Panel cut-out (mm)	□ b	$92^{+0,8}$	$68^{+0,8}$
Bezel height (mm)	c	5,5	5,5
Protect cover (mm)	□ d	90	66,5
Scales length (mm)		95	63
Weight approx. (kg)		0,32	0,22

xV/ 100V

xV/ 110V

Table 1: Dimensions and weight

CONECTION DIAGRAM:



Picture 3: Connection diagram for FQ3x07

ORDERING DATA:

- Instrument type,
- Measuring range and scale,
- Transmission ratio of instrument transformer.

ORDERING EXAMPLE:

• Voltmeter FQ3207, 0- 500 V



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Printed in Slovenia • Subject to change without notice • PRELIMINARY! / dec. 2004