



FA39, FA32

PANEL POWER FACTOR METERS with built-in trandsucers

APPLICATION

FA39 and FA32 panel power factor meters are destined for measurements of the phase angle between the voltage and current in single-phase or three-phase AC power networks.

These meters are calibrated to correspond to the cosine of the angle, i.e. the power factor.

These meters can be mounted on panels of any kind of materials.

440, 500 V

TECHNICAL DATA

Measuring ranges: 0.5 cap ...1...0.5 ind 0.8 cap ...1...0.3 ind 0.8 cap ...1...0.8 ind

Input voltage (one of the series):

- for single-phase meters 60, 100, 110, 230, 400 V

- for meters working in

three-phase networks

symmetrically loaded 100, 110, 230, 400, 415,

Input current 1 A or 5 A
Accuracy class 1.5

Rated operating conditions:

- ambient temperature $-10...23...55^{\circ}$ C - air relative humidity 25...85% - input voltage Un $\pm 15\%$

- input current 20 ...40 ...100 ...120% In - frequency of the input voltage 49...51 Hz for 1 phase

 $45...65 \text{ Hz for 3 phases} \\ -\text{ working position} \qquad \text{acc. order } \pm 5^\circ \text{ (table 1)} \\ \textbf{Additional errors} \qquad \text{acc. EN } 60051\text{-}1 \text{ standard} \\$

Power consumption

- in voltage circuit \leq 8 VA - in current circuit \leq 0.2 VA

Protection Grade acc. to EN60529

- front protection grade:

- IP52

IP65 only for F39 meters
 terminal protection: IP20

Electromagnetic compatibility:

The meter fulfils CE mark requirements:

- emission acc. EN 61000-6-4 standard - immunity acc. EN 61000-6-2 standard

Safety requirements

installation categorylevel of polution2

- maximal working voltage

in relation to the earth 660 V

Housing material thermoplastic,

self-extinguishing plastic (UL 94V-O)

Glass material glass (in standard)

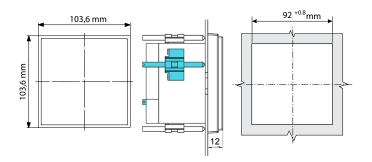
anti-reflective glass on request

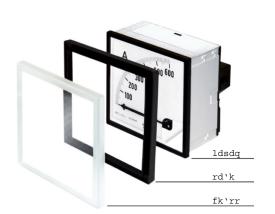
ACCESSORIES

We deliver with the meter:

- screw holders	2 pcs
- terminal protection cover	1 pc
- user's manual	1 nc

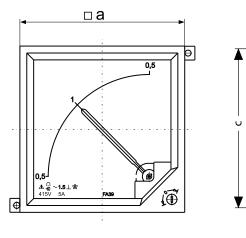
EXTERNAL DIMENSIONS OF FA39 FOR IP65 PROTECTION GRADE

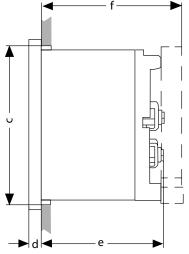


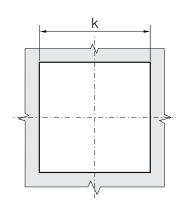




EXTERNAL DIMENSIONS OF F32 AND FA39 FOR IP52 PROTECTION GRADE







Туре	а	С	d	е	f	k	
			mm	ı			
FA39	96	92+0.8	5,5	51.5	63.5	92+0.8	
FA32	144	138+1.0	5,5	53	63.5	138+1.0	

SPOSÓB MOCOWANIA W TABLICY

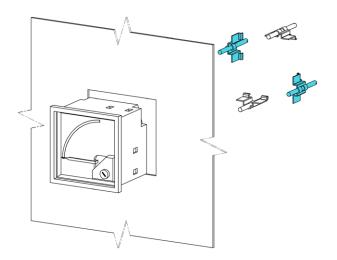


Fig. 2. Fixing of meters FA39 in the panel (version with IP52) $^{\mbox{\tiny 1}}$

¹ Included are two screw holders which should be fixed on arbitrary, opposite case corners

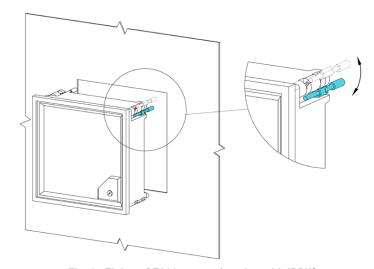


Fig. 3. Fixing of FA32 meters (version with IP52) 2

²The meter is fixed to the panel by two screw holders situated on opposite corners of the case.

WORKING POSITION

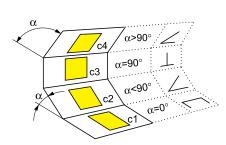
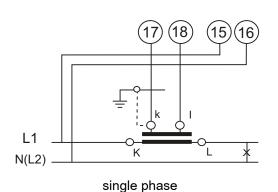
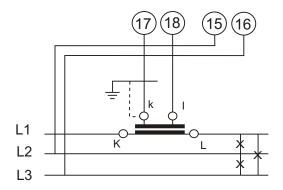


	Table 1
Code	Working position
0	c3
Α	c1
В	c2 α = 15°
С	c2 α = 30°
D	c2 α = 45°
E	c2 α = 60°
F	c2 α = 75°
Н	c4 α = 105°
I	c4 α = 120°



ELECTRICAL CONNECTIONS OF EXTERNAL CIRCUITS





thre phase wire balanced load

ORDERING PROCEDURE

POWER FACTOR METERS FA39, FA32	x	Х	x	xx	Х	xx	X
Measurement of power factor in:							
Single phase networks							
Three-phase, three-wire symmetrically loaded networks	3						
Measuring range:							
0.5 cap10.5 ind		A					
0.8 cap10.3 ind		В					
0.8 cap10.8 ind		C	_				
Input current:							
1 A							
5 A			5				
Input voltage:							
60V (only for measurement in a single-phase network)				01			
100 V							
110 V							
230 V							
400 V							
415 V (only for measurement in a three-phase network)				06			
440 V (only for measurement in a three-phase network)							
500 V (only for measurement in a three-phase network)							
On request after agreement				XX			
Marking position					_		
Working position Write in the code acc. table 1					v		
Write III the code acc. table 1					٨		
Version:							
Standard							
Custom-made. The code must be agreed with the manufacturer						XX	
Acceptance tests:							
Without additional requirements							8
With a quality inspection certificate							

EXAMPLE OF ORDER

Code: FA39-1-A-5-04-O-00-8, means:

The version of a power factor meter FA39 type, for measurement in a single-phase network, range: 0.5cap ...1 ...0.5ind, input current: 5 A, input voltage: 230 V, working position: c3 (90° - vertical), standard version, without additional test requirements.



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B2 06030A0A01A1M0 B2 06040A0A0100M0 B2 0604A00A0100M0 B2 06050A0A01A2M0 B2 0605A00A01A1M0 B2

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B3 1505A00A01A1M0 B3 15060A0D0100M0 B4 0502K00B01B5M0 B4 05050A0D01A2M0 B5 075300AB01B1M0 B5

07575A0D01A2M0 B6 10010A0A0100M0 B6 100150AD0100M0 B6 10020A0A01A1M0 B6 10050A0D01A2M0 BA271NE4120000

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