

■ Mains Analyser MF7



MGF37000

■ Schrack-Info

- Low voltage network monitor
- Three-phase network 340...450 V (phase - phase)
- Single-phase network 195...260 V (phase - neutral)
- Connection with dedicated CT
- Programmable primary CT 5...8000 A (41 range)
- True RMS value measurement

■ Technical Data - Part 1

DISPLAY

Values	Display Voltage phase-phase and phase-N
	Current wire and neutral wire current
	Frequency
	Average current
	Maximum value of average current
	Working hours (hours and minutes)
Display	LCD backlit
Backlight	Turns off automatically after 20 seconds without operation
Display	10,000 points (4 digits)
Engineering units	Automatic, depending on the setting of the transformer primary current
Resolution	Automatic, with the highest possible decimal places
Reading	update 1.2 seconds

ACCURACY (OF READING)

Voltage	± 0,5% (80...450 V Phase - Phase)
Current	± 0,5% (10...120% I _n)
Neutral wire current	± 2%
Frequency	± 0,2 Hz

CURRENT DEMAND

Display	Current demand and max. current demand
Calculation	Average for current and power on the selected period
Averaging period	5/8/10/15/20/30/60 minutes selectable
Max. demand reset	By hand, by keyboard

PROGRAMMING

Parameters programming	Front keyboard, 2 keys
Programming access	Key combination
Data and configuration parameters retention	Non-volatile memory (no battery)

PROGRAMMABLE PARAMETERS

Connection	Single-phase - three-phase (3 and 4 wires)
Programmable primary currents (A)	5, 10, 15, 20, 25, 30, 40, 50, 60, 70, 75, 80, 100, 120, 125, 150, 160, 200, 250, 300, 400, 500, 600, 700, 750, 800, 1000, 1200, 1250, 1500, 1600, 2000, 2500, 3000, 3200, 4000, 5000, 6000, 7000, 7500, 8000 A
Current max. demand	Delay time, reset
Working hours	Reset

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Technical Data - Part 2

INPUT

Power system	Single-phase and three-phase 4-wire network
Three-phase voltage	340...450V (phase-phase)
Single-phase voltage	195...260V
Current rating I_n	I_n : 5A or 1A
Continuous overload:	1,2 I_n
Instantaneous overload	20 I_n /0,5 seconds
Connection	with external dedicated current transformer Inputs have a common point
Frequency rating f_n	50Hz
Tolerance:	47...63Hz
Type of measurement	True RMS
Harmonic content	Up to the 16th harmonic
Voltage rated burden	< 1VA (each phase)
Current rated burden	< 0,5VA (each phase)

AUXILIARY SUPPLY

Supply	Taken from measurement (self supplied)
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INSULATION

Installation category	III
Pollution degree	2
Insulation voltage rating	660V
Voltage test	A.C. voltage test 4kV r.m.s. value 50Hz/1 min
Considered circuits	All circuits and earth

TESTS FOR ELETROMAMAGNETIC COMPATIBILITY

Emission tests	according to EN 61000-6-3
Immunity tests	according to EN 61000-6-2

ENVIRONMENTAL CONDITIONS

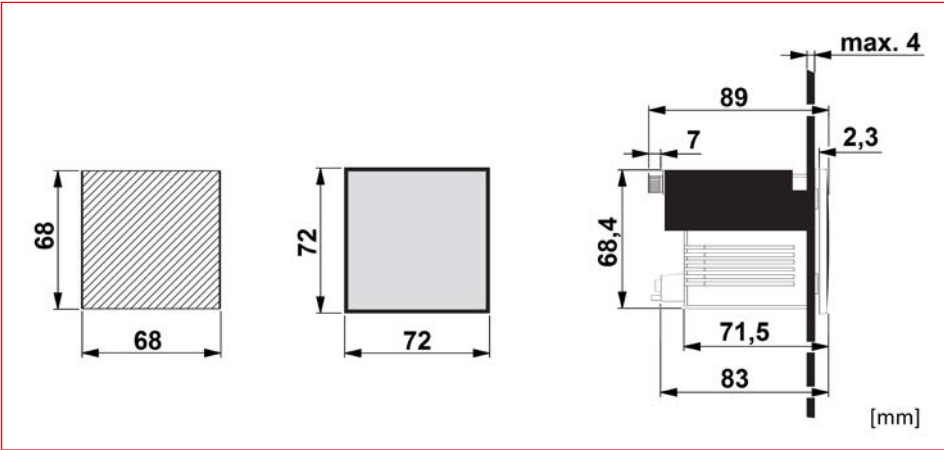
Reference temperature	23°C ± 2°C
Specified operating range	-5...55°C
Limit range for storage and transport	-25...70°C
Variation of the class index	< 0,1% /°C
RH	0-95% non-condensing
Max. power dissipation for switchboard thermal calculation	< 6,8W

HOUSING

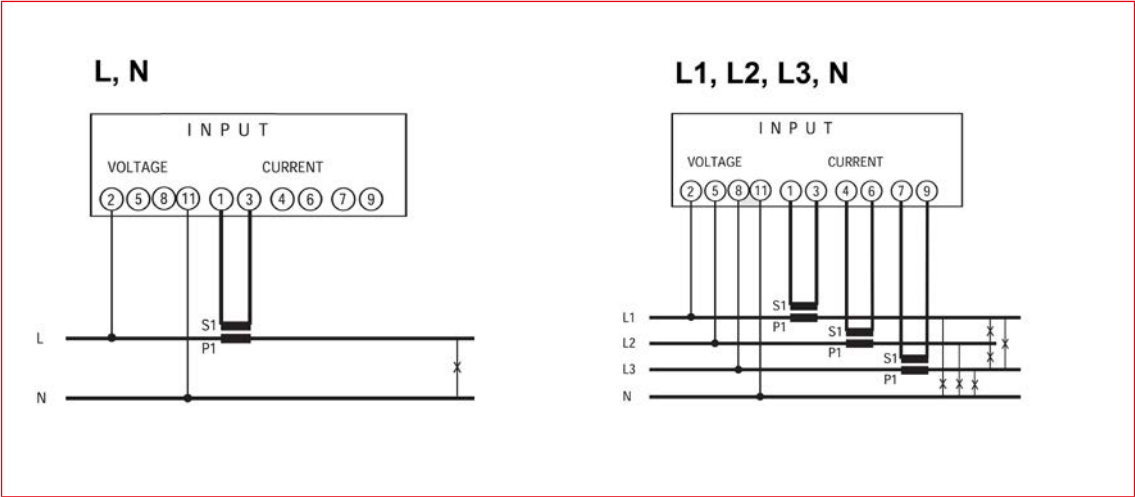
Housing	Flush mounting (panel cutout 68x68mm)
Front frame	72x72mm
Depth	75 mm
Ammetric terminals range	Rigid cable min.0,05mm ² / max. 4mm ² Flexible cable min.0,05mm ² / max. 2,5mm ²
Volmetric terminals range	Rigid cable min. 0,05mm ² / max. 4mm ² Flexible cable min.0,05mm ² / max. 2,5mm ²
Housing material	self-extinguishing makrolon
Protection degree (EN60529)	IP54 front frame, IP20 terminals
Weight	250 grams

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MGF37000 Dimensions



MGF37000 Wiring Diagram



DESCRIPTION	AVAILABLE	ORDER NO.
Netanalyser MF7, 72x72mm, base unit, no accessories		MGF37000