Three Phase Power Meter

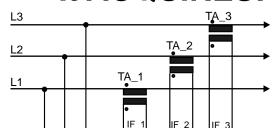
Digital measurer of electric quantities for mono / three phases systems DIN bar mounting (6)

MGE 3

MGE 3

It ACQUIRES:

3 voltages directly or through a VT



3 currents trough AT with IL / 5A relation

Suitable in **ARON** connession

Suitable in Three phase (3P3W) connection

Suitable in Three phase

Neutral (3P4W) connection MGE 3 Three-phase Digital Analyzer Correct measures even in case of unbalanced load

Correct measures even in case of harmonic distortion

Power supply

- 110 Vac
- 230 Vac

Dimensioni reali

Serial I/O - RS-485

It ELABORATES and MAKES AVAILABLE THE VALUES:

- PHASE VOLTAGE (VL1-N; VL2-N VL3-N)
- LINE VOLTAGE (VL1-VL2; VL2-VL3; VL3-VL1)
- PHASE CURRENT (IL1,IL2 IL3)
- PHASE ACTIVE POWER (W_L1÷L3)
- PHASE REACTIVE POWER (Var L1÷L3) - PHASE APPARENT POWER (VA L1÷L3)
- PHASE POWER FACTOR [cos-fi_L1+L3]

- THREE PHASE SYSTEM VOLTAGE IVI
- THREE PHASE SYSTEM CURRENT [A]
- THREE PHASE SYSTEM POWER FACTOR[cos-fi]
- THREE PHASE SYSTEM ACTIVE POWER (P) [W]
- THREE PHASE SYSTEM REACTIVE POWER (Q) [Var]
- THREE PHASE SYSTEM APPARENT POWER (S) [VA]
- FREQUENCY (f) [Hz]









TECHNICAL SPECIFICATIONS

Power Meter Analyzer (settable): mono-phase, two-phase, three-phase with neutral; three-phase without neutral; three-

phase ARON

Measurement method: TRMS Type

Current transformer: prog. ratio from 1 to 999
Voltage transformer: prog. ratio from 1,0 to 99,9
Input impedance: > 1 Mohm (phase-neutral input)

Sampling time: 700ms

Power supply: 230Vac; 115Vac

Operating Temperature: from 0 to +50°C Storage Temperature: from -10 to +60°C

Relative humidity (non condensing): 0-90% @40°C

Dimensions: see the drawings

Weight: circa 400g (packing included)

Monting: guida DIN

Insulation

AC power supply: 4kV for 60s

Wave-form: sinusoidal or distorted wave.

Digital filter: filtering range from 0 to 100:

RS-485 2 or 3 wiring; **RS4-222** 4 or 5 wiring

Communication protocol: MODBUS RTU

Power demand: Prog. Integration time 1 to 30 min.

filtering coefficient from 1 to 16

Serial Port specifications

Parity: None; N°Bit= 8; Stop Bit=1

Baud rate: 9600 baud

Address: 1 to 255

EMC:

emissions: EN50084-1 (residential, class A) Immunity: EN61000-6-2 (industrial, class A) Installation category (IEC 60664): Cat. III Standards: EN61010, IEC 60664

Approvals: CE

Voltage (V L1-N, V L2-N, V L3-N) 80Vac ÷ 460 Vac Accuracy: ± 0.5%FS Voltage (V L1-2, V L2-3, V L3-1) 130Vac ÷ 790 Vac Accuracy ± 1.5% FS

Current (A L1, Á L2, A L3) 0,2A ÷6 A Accuracy ± 0.5% FS + 1 Lsb; da 0,03÷0,25A ± 0.5% FS + 7 Lsb

Max over current: 36A for 500ms

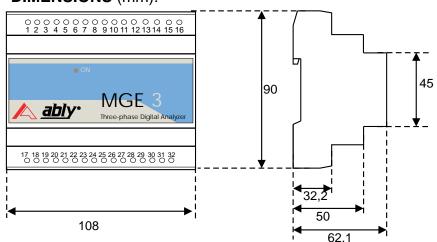
Calculated variables: Accuracy

Power (W); (VA): ±1% FS +1 Isb from 0,25A to 6A;±1% FS + 7 Isb from 0,03 A to 0,24A

ORDINATION CODES

Cod. 4M000040: MGE3 3PH.DIGITAL ANALYZER 220V Cod. TUTL10MG: SOFTWARE PRESET MULTIMETER MGE3

DIMENSIONS (mm):



MGE_3_REV_



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