

Type MIQ96-3

Technical specifications

Meas. voltage Un:	Ph-N 230V AC Ph-Ph 400V AC, range 0.1...1.5 x Un Consumption: < 0.1 VA per phase	
	Overload capacity: 1.5 x Un continuously 2 x Un for 10 s	
Meas. current In:	-/1 A or -/5 A, range 0...1.6 x In Consumption: < 0.1 VA per phase	
	Overload capacity: 3 x In continuously 25 x In for 3 s 50 x In for 1 s	
Meas. frequency:	50/60 Hz, range 16...400 Hz	
Auxiliary supply:	Working range: 40...276V AC 40...65 Hz 19...300V DC	
	Overload capacity: 1.2 x Un continuously 1.5 x Un for 10 s	
	Consumption: < 5 VA	
Accuracy:	Phase voltage Ph-N	0.5% of range
	Phase-phase voltage	1.0% of range
	Current	0.5% of range
	Neutral current	1.0% of range
	Active power	0.5% of range
	Reactive power	0.5% of range
	Apparent power	0.5% of range
	Power factor	0.5% of range
	MD values	1.0% of range
	Active energy EN61036:	1996 class1
	React. energy EN61268:	1995 class2
	Frequency	0.05% of reading
	THD	1.0%

Note: All measurements are calculated with harmonics present up to 15th harmonics

Response time:	64 periods ~ 1.28 s at 50 Hz
Real time clock:	1 minute/month
Relay outputs	
Contact ratings:	250 V - 6 A - 1500 VA (AC) (250V AC - 6 A resistive AC load 100.000 operations)
	35 V - 6 A - 210 W (DC) (30V DC - 6 A resistive load 500.000 operations)
Contact voltage:	Max. 250 V (AC) Max. 100 V (DC)
Isolation:	1000 V (AC) between open contacts 4000 V (AC) between coil and contacts
Pulse:	Max. pulses per hour: 4000 Pulse duration: 10...300 ms
Fuse:	All voltage inputs should be protected by a 2 A fuse

RS485 port

Connection type:	Multi-drop (32 connections per link)
Signal levels:	RS485
Cable type:	Belden 3105A or equivalent (twisted pair)
Max. cable length:	1000 m
Connector:	Screw terminals
Isolation:	3.7 kV rms for 1 minute between all terminals and all other circuits

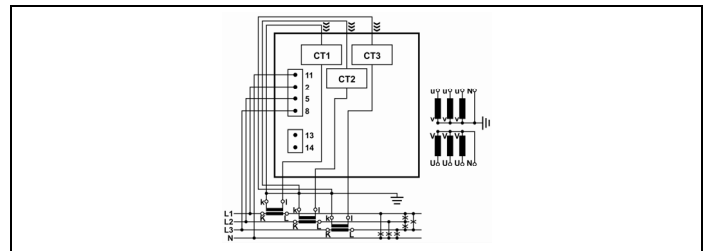
Transmission

Mode:	Asynchronous
Message format:	Modbus RTU
Data rate:	1200 to 115200 bits/s
Safety:	To EN 61010-1 Installation cat. III, 300 V. Pollution degree 2 Installation cat. II, 600 V. Pollution degree 2
Test voltage:	3.7 kV rms according to EN 61010-1
EMC:	To EN 61036 To EN 61326-1: 1997 for mentioned accuracy. (To EN 61000-6-1/2/3/4 for a general 1.0% accuracy on all measurements)
Connections:	Permissible cross section of the connection leads
Wire:	Multi stranded: 1.5 mm ² Single stranded: 2.5 mm ²
Protection:	Enclosure: IP52 Terminals: IP00 According to EN 60529: 1989
Climate:	According to EN 61036: 1996 According to EN 61268: 1995 Operating temperature: -10 to +55°C Storage temperature: -25 to +70°C Annual mean relative humidity: ≤ 75% r.h.
Housing:	Plastic, in compliance with UL 94 V0

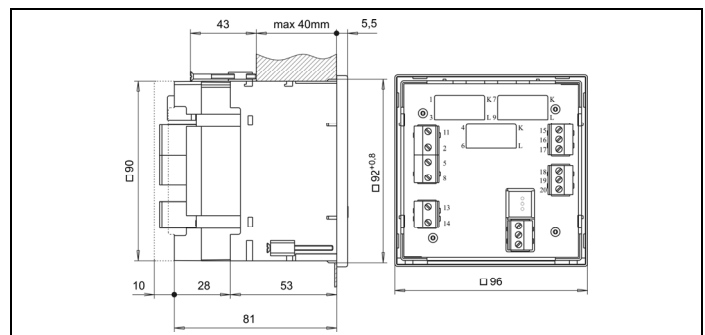
Connection

In the menu "Setting", setup for the following connections is available: 1W, 1W3, 2W3, 1W4, 3W4.

Principle diagram for 3W4 connection:



Dimensions in (mm)



Order specifications

MIQ96-3

Measuring input: Phase-phase 400V AC, 5 A

Aux. supply: 40...276V AC, 40...65 Hz, 19...300V DC

DEIF no. 1200900013

Due to our continuous development we reserve the right to supply equipment which may vary from the described.



-power in control

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