



-power in control

DEIF A/S

Type Certificate

4124010051C

Type:	Multi-instrument MIQ96-2/3
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Technical specifications

Voltage measurement:	
* Nominal voltage U_N	Ph-N: 230V AC (load: <0.1 VA per phase at U_N) Ph-Ph:: 400V AC
Measuring range:	0.1...1.5 x U_N
Overload range	1.5 x U_N cont. 2 x U_N for 10s
External fuse	2A / 230V AC
Current measurement:	
* Nominal current I_N	-/1 or -/5A AC (load: 0.1VA per phase at I_N)
Measuring range	0...1.6 x I_N
Overload range	3 x I_N cont. 25 x I_N for 3s. 50 X I_N for 1s
Frequency input:	
* Frequency	Nominal fN 50/60Hz. Meas. range: 16...400Hz.
Accuracy:	
* Voltage Ph-N meas.	0.5% of range
* Voltage Ph-Ph meas.	1.0% of range
* Current meas.	0.5% of range
* Frequency	0.05% of reading
Neutral current	1.0% of range
* All power measurements	0.5% of range (both P, Q and S)
Power factor	0.5% of range
Active energy (kWh)	EN 61036 class 1
Reactive energy (kVArh)	EN 61036 class 2
Demand power	1.0% of range
THD measurement	1.0% of reading
Aux. power supply:	
* Supply voltage	40...276V AC 50/60 Hz or 19...300V DC. <5VA. Fuse: 2A / 250V AC
Other inputs/outputs:	
Relay outputs	AC: 250V-6A-1500VA. DC: 35V-6A-210W. Isolation over open contact pieces: 1000V AC, 1 min Isolation to other circuits: 4000V AC, 1 min.
* Communication	RS485 multi-drop, Modbus RTU Isolation 3.7kV AC for 1 min

Type test specifications

Tested according to:

Temperature:	Operating: -10...65°C, Storage: -25...70°C	IEC/EN 60068-1/2
Humidity	0...75% RH, non-condensing	IEC/EN 60068-1/2
Protection	Enclosure: IP52. Terminals: IP20 with cover mounted Terminals: IP00	IEC/EN 60529
Safety	Cat. HI, 300V poll.dg. 2 Cat. II, 600V poll.dg.2	IEC/EN 61010-1
Test voltage	3700V AC rms, 50Hz, 1 minute	IEC/EN 61010-1
EMC	Immunity Emission	EN 61000-6-1/2 EN 61000-6-3/4

*) Tested on all units according to specifications. Remaining specifications are tested regularly by test sampling

17th June 2011

DEIF A/S

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