



- power in control

DEIF A/S**Type Certificate**

4124010048C / ref. JCL

Type:	Multi-instrument MIC			
Voltage measurement:				
* Nominal voltage U_N	Ph-N: 230 VAC (load: 0.2 VA per phase at U_N) Ph-Ph.: 400 VAC			
Measuring range	$0 \dots 1.2 \times U_N$			
Overload range	$2 \times U_N$ cont. 2500 VAC for 1 s			
PT	Primary: 100V...500kV. Secondary: 100V...400V			
External fuse	1A / 230 VAC			
Current measurement:				
* Nominal current I_N	5 AAC (load: 0.5 VA per phase at I_N)			
Measuring range	$0 \dots 1.2 \times I_N$			
Overload range	$2 \times I_N$ cont. $20 \times I_N$ for 1 s			
CT primary	5A... 10kA			
Max. primary current	9999 AAC			
Frequency input:				
* Frequency	Nominal f_N 50/60 Hz. Meas. range: 45...65 Hz. Measuring point: Ph1-N			
Accuracy:				
* Voltage and current meas.	0.2% of range		Power factor	0.5% of range
* Frequency	0.2% of reading		Active energy (kWh)	EN 61036 class 1
Neutral conductor current	0.5% of range		Reactive energy (kVarh)	EN 61036 class 2
Demand power	1.0% of range		THD measurement	1.0% of reading
* All power measurements	0.5% of range (both P, Q and S)			
Aux. power supply:				
* Supply voltage	85...264 VAC 50/60 Hz or 100...280 VDC. 2 VA or 2 W. Fuse: 1A / 250VAC 20...60 VDC. 2 W. Fuse: 1A / 250VAC			
Other inputs/outputs				
* Digital inputs	Resistance: 2k Ω , max. 20mA. Range: 5...30 VDC. Isolation: 4 kVAC rms			
* Digital outputs	Open-coll., NO, max. 30 mA. Range: +40...-6 VDC. Isolation: 4 kVAC rms			
Relay outputs	DC: 30V-3A-90W. Isolation over open contact pieces: 750 VAC, 1 min Isolation to other circuits: 4 kVAC rms, 1 min.			
* Communication	RS485 multi-drop, Modbus RTU, 1.200...38.400 bits/s			

Type test specifications		Tested according to:
Temperature:	Display: -5...55 °C Other parts/performance: -25...55 °C Storage: -25...70 °C	EN/IEC 60068-2-1 EN/IEC 60068-2-2
Humidity	0...95% RH, non-condensing	EN/IEC 60068-2-30 Test Db
Temperature drift	100 ppm per °C	EN/IEC 60068-1/2
Protection	Enclosure: IP40. Terminals: IP20	IEC/EN 60529
Safety	EN 61010-1, Cat. III, poll.dg. 2	IEC/EN 61010-1
Test voltage	2200VAC rms, 50 Hz, 1 minute	IEC/EN 61010-1
EMC	Immunity	IEC/EN 61000-6-2
	Emission	IEC/EN 61000-6-4

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

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