

DEIF A/S

Type Certificate 4124010027B / ref. JCL

Type: Insulation monitor
AAL-111Q96-2

Τe	echnical specifications			
	Measuring circuit:			
٠	DC resistance (R _i):	22kΩ or 220kΩ ±5% (dependent on scale range)		
	AC impedance (Zi):	>100kΩ at 50Hz		
	Measuring output voltage:	12V DC ±10%		
	Mains input voltage:	Max. 440V AC +20% continuously		
	Instrument:			
	Measuring scale range:	1M Ω with scale centre at 0.022M Ω or 10M Ω with scale centre at 0.22M Ω		
	Accuracy:	±2% of scale length		
	Temperature drift:	Max. 0.5% of scale length per 10°C		
	Voltage drift	Max. 0.2% of scale length at U _s ±20%		
	Response time:	0.1kΩ/V: 1 s, 1kΩ/V: 3 s		
t	Scale:	Exchangeable, with red section		
	Relay function:			
	Setpoint:	01000kΩ for 1MΩ scale range	$010,000$ k Ω (x10) for 10 M Ω scale range	
	Accuracy:	±5% of scale length		
	Reproduceability	±1% of scale length		
	Hysteresis:	±2% of scale length		
	Temperature drift:	Max. 0.2% of scale length per 10°C		
	Voltage drift:	Max. 0.2% of scale length at U _s ±20%		
	Response time:	0.1kΩ/V: 1 s, 1kΩ/V: 3 s		
+	Indication:	Red LED is lit when resistance is lower than setpoint		
	Delay	0 sec. or 4 sec. (change with a jumper)		
	Relay output:	Change-over contact		
	Contact rating:	250V - 2A - 400VA (AC). 250V - 1A - 50W (DC)		
	Relay coupling:	Normally energised (NE) or normally De-energised (ND) (change with a jumper)		
	General technical spec.			
	Auxiliary voltage:	AC: 100, 110, 220, 230, 240, 380, 415, 440V AC ±20%, 4565Hz (ca. 4VA)		
	"READY" indication:	Green LED is lit, when auxiliary voltage is present		
* Galvanic separation: Between Aux. voltage and other I/O's: 2200V, 50Hz, 1 r Between Measuring circuit and other I/O's: 2200V, 50Hz, 1 r Between Relay output and other I/O's: 2200V, 50Hz, 1 r			's: 2200V, 50Hz, 1 minute	



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Type test spe	cifications Tested acc	cording to:	
Temperature:	-2560°C (operating) -2565°C (storage)	IEC 60068-2-1 IEC 60068-2-2	
Climate:	97% RH	IEC 60068-2-30, test Db	
Vibration:	313.2Hz: 2mm _{pp} 13.2100Hz: 1g	IEC 60068-2-6 & IACS UR E10	
Shock:	15g, 11msec. half sine Tested with 3 impacts in each direction in all 3 axes. Total 18 impacts per test.	IEC 60068-2-27, test Ea	
Safety:	Installation Cat. III 300V Pollution degree 2	IEC/EN 61010-1	
EMC:		EN 61000-6-1/2/3/4 IACS UR E10 power distr. zone	
Materials:	All plastic parts are self-extinguishing to UL94 (V0)		
		IEC/EN 60529	

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

13th March 2014 **DEIF A/S**

Knud J. Poulsen Type Approval Manager