

Type: Insulation monitor	ADL Type: ADL11Q96/XXXVDC
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Technical specifications

Description	Levels			
Measuring circuit				
Dc resistance (Ri)	ADL-111Q96/24VDC 12kΩ ±1%, ADL-111Q96/110VDC 55kΩ ±1%, ADL-111Q96/220VDC 110kΩ ±1%,			
Injection voltage	24V version ±12VDC ±5%, 110/220V version ±25,5VDC ±5%			
Mains voltage and Aux. supply corresponding scale	24VDC +30-25%, 110VDC +30-25% 220VDC +30-25%			
Leakage capacitance	Max. 1μF leakage capacitance or 20μF leakage capacitance, set by S1 located under the cover.			
Instrument				
* Scale/measuring range	24VDC 50...0kΩ, 110VDC 250...0kΩ, 220VDC 500...0kΩ			
* Accuracy	±5% of scale length			
Temperature drift	Max 0,5% of scale length per 10°C			
* Aux supply influence	Max. 0,2% of scale length at Us +20...-15% Max. 5,0% of scale centre at Us -15...-20%			
Response time	Setting/Type	24VDC	110VDC	220VDC
	1uF	2sec	3.2sec	5sec
	20uF	11sec	20sec	40sec
* Visual indication	Green LED: Supervision. Red LED: fault			
Relay function				
* Set point	24VDC 0...50kΩ, 110VDC 0...250kΩ, 220VDC 0...500kΩ			
Accuracy	±5% of scale length for potentiometer			
Reproduceability	±1% of scale length for potentiometer			
Hysteresis	±2% of scale length for potentiometer			
Temperature drift	Max. 0.2% of scale length for potentiometer per 10°C			
Voltage drift	Max. 0.2% of scale length for potentiometer at Us ±20%			
Response time	Same as instrument			
* Relay Output:	Change-over contact			
Contact rating	AC1: 8A, 250V AC-DC1: 8A,24VDC AC15: 3A, 250V AC-DC13: 3A, 24VDC Life mechanical: 2x10 ⁷ operations Life electrical: 1x10 ⁵ operations			
* Relay coupling	Normally energized NE or normally de-energized ND			


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

Type test specifications		Tested according to:
Description	Levels	Standards
Insulation	>100MΩ tested at 500VDC	IACS UR E10
Vibration	3...13,2Hz 3mm 13,2-100Hz 1,0g	
Shock	6 impacts of 50g, 11ms half-sine Tested in each direction in all 3 axes.	IEC 68-2-27, test Ea
Climate	Class HUE, to DIN 40040	DIN 40040
Protection	Instrument: IP52/IP54 Electronics: IP20, Terminals: IP20	IEC 529 and EN 60529
Temperature	-10...55°C(nominal) -25...60°C(operating) -25...65°C(storage)	IACS UR E10
Galvanic separation	Between aux. Voltage and measuring circuit/relay output: 2200V (max. 1,9mA) Between measuring circuit and aux. Voltage/relay output: 2200V (max. 1,9mA) Between relay output and measuring circuit/aux. Voltage: 3250V (max. 2,4mA)	EN 61010-1 tested at 50Hz, 1 min. Each circuit tested to other circuits and to protective earth.
Materials	All plastic parts are self-extinguishing to UL94 (V0)	
EMC	Immunity	EN 61000-6-1/2, IEC 61326-2-4
	Emission	EN 61000-6-3/4, IEC 61326-2-4 IACS UR E10 Power distribution zone

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