

FAC/055, FAC/120 and FAC/200 Insulation Monitor for batteries installations

• Applications

FAC equipment detect, in DC installations of 48, 120 or 200 Vdc, insulation fault on conductors (+) and (-) against ground. The main application is in batteries installations, continuous-alternate rectifiers, etc. Generally, in any DC installation in which you want to detect the possible connection to ground. For in example, recreational ships, or military, High Voltage Sub-stations, etc., that use DC to power protection and measurement equipment, etc.

• Functional Features

- Instantly connect an output relay, just in the moment of fault detection.
- Test button for simulates ground connection of (+) and (-).
- LED, indicates if default is (+) or (-)
- Powering with own instal.lacions.

• Constructive Features

- Plastic enclosure with DIN rail installation
- Frontal board terminals.
- Potential free output contact.

• Technical Data

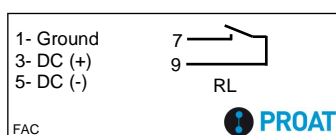
- Operating margin: Vdc+15% to Vdc/2
- Consumption at rest: 0.5 W (VN)
- Consumption with default: <6W
- Response time: <50ms
- Default max. resistance: 80 KΩ
- CE Standard
- Relay Contact properties:
 - Max. Switching Voltage: 230 Vac
 - Max. Switching Power: 1000VA.



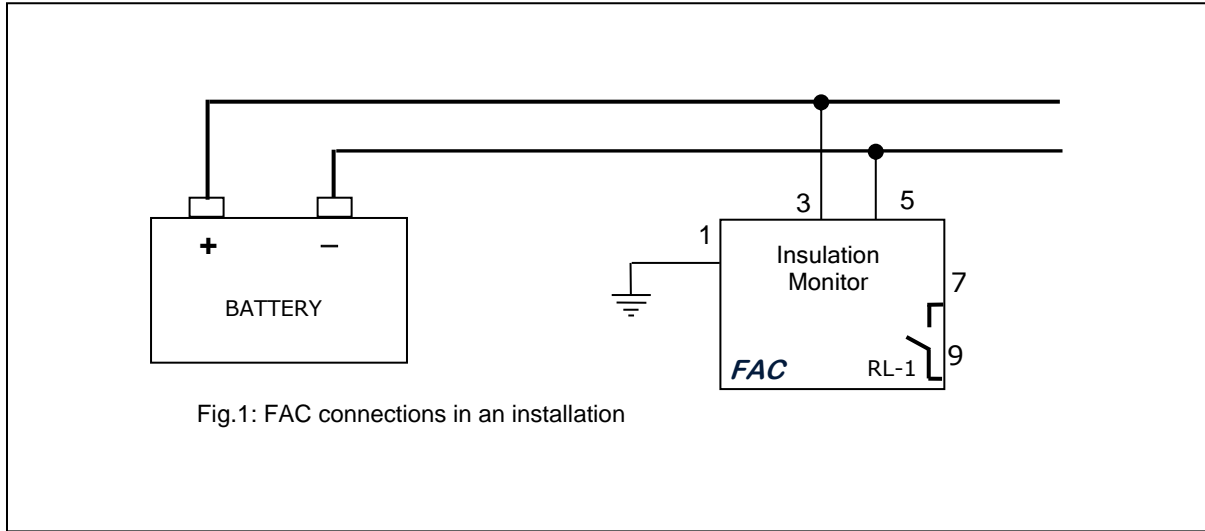
• Models

Models	Nominal Voltage V_N	Voltage margin without power supply
FAC/055	48 V _{DC}	24...55 V _{DC}
FAC/120	120 V _{DC}	60...138 V _{DC}
FAC/200	200 V _{DC}	100...230 V _{DC}

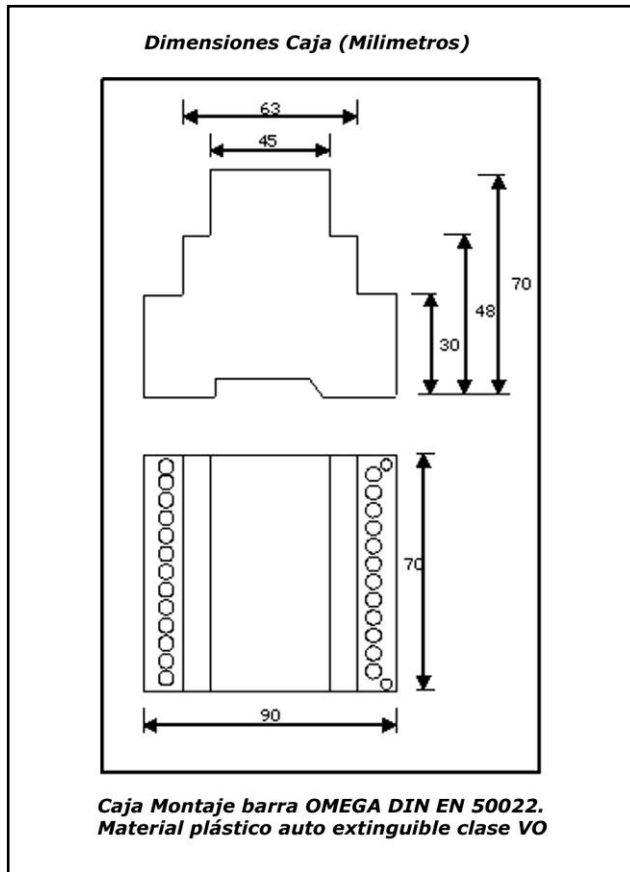
• Terminals



- Wiring Diagram



- Case dimensions (millimeters)



FAC/055 Isolation Monitor (171023)

Technical Data FAC

Dielectric Test	
Input VDC to outputs contacts	3k VDC

Voltage Range	
Monitoring voltage U_N	$0,5 \cdot U_N \dots U_N + 15\%$
Power consumption	$\leq 6VA$

Response values	
Isolation level I_n	80 k Ω
Measure Error (I_n)	$\pm 10\%$
Response time T_R	<100 ms
Timing Failure	1 second
Switching Time R_L	<100 ms

Measuring circuit	
Internal resistance R_+	>56 k Ω ($V_n=120$)
Internal resistance R_-	>56 k Ω ($V_n=120$)
Impedance to ground	>300 K Ω
Monitoring voltage U_N	$U_N + 15\%$
Leakage capacitance	>1000 μF

Frontal view	
Signals type	2 leds
Fault (+)	Led red
Fault (-)	Led red
Test button	Yes
Reset button	Yes

Factory Settings	
Isolation level	80 k Ω

Switching Elements	
Number of switching elements	1
Type of outputs	NA
Voltage outputs	Voltage free
Rated contact voltage	250VAC/300VDC
Making capacity	5A/0,1A
Electrical service life, number of cycles	20,000,000
Breaking Capacity	2A-AC239V
	0,4-0,2 - DC220V

General Data	
Operation Mode	Continuously
Mounting	DIN rail
Connection	screw M2,5
Maximum torque	0,4 Nm
Protection grade	IP20
Flammability class	UL94V-0
Weight	310g.aprox.
Operation temperature	-20°C...+55°C
Storage temperature	-25°C...+80°C
Relative Humidity (without condensation)	<95%
Setting values method	front opening

Ruling	
Electrical safety requirements	UNE-EN 61010-1 UNE-EN 61010-2-0081
Electrical safety requirements	UNE-EN 61000-6-1
Electromagnetic compatibility (CEM)	UNE-EN 61000-6-3/A1
Directive Europe	2006/95/CE
Directive Europe	2004/108/CE

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Sistema de Gestión
ISO 9001:2015



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