



Powering Innovation



PROTECTION + AUTOMATION + CONTROL

INSTANTANEOUS / DEFINITE TIME, BATTERY EARTH FAULT RELAY JRC 082

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FEATURES

- ◆ Software based design
- ◆ Instantaneous / Definite time
- ◆ Wide range of battery voltage
- ◆ Solid state reliability

APPLICATION

The relay monitor the battery and ensure that no leakage between battery and ground in DC systems.



PRINCIPLE OF OPERATION

The relay measures the leakage current between the battery and earth. If the current exceeds the set value, the relay trips after the time delay setting . The relay output contacts are hand reset type. Trip test facility is provided to check the relay operation.

TECHNICAL DATA

RATINGS

Battery voltage rating	:	30V, 48V, 50V, 110V, 220V, 250V DC
Auxiliary Supply	:	230V AC

SETTINGS

Current setting	:	1 to 8mA in steps of 1mA
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Operating Time

Instantaneous	:	< 60ms
Definite Time	:	0.1 to 1.5s in steps of 0.1s

BURDEN

Battery supply	:	10W (maximum)
Aux. Supply	:	Less than 8W (Non operated)
	:	Less than 10W (Operated)

ACCURACY

Operating value	:	±5%
Operating Time	:	±5% or ±30ms whichever is higher

CONTACT RATINGS

Trip / Alarm	:	10A at 24V DC / 230V AC
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CONTACT DURABILITY

Loaded contact	:	10,000 operations min.
Unloaded contact	:	100,000 operations min.

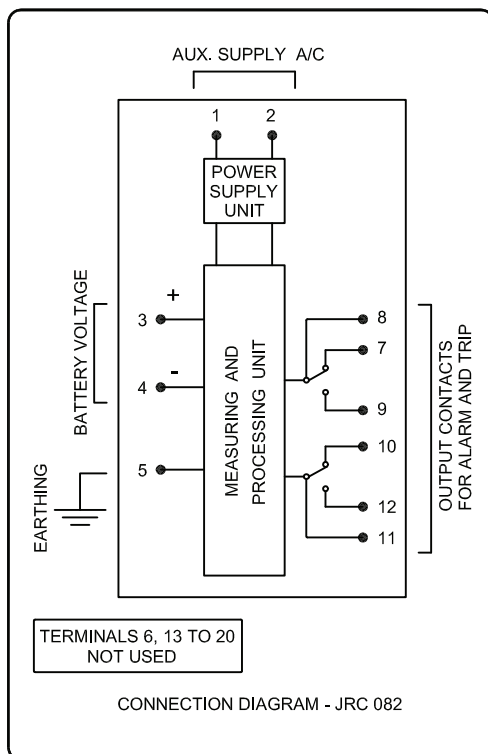
MECHANICAL DESIGN

Weight	:	Approx. 1500 gms
Case size	:	144sqmm with a depth of 117mm
Installation	:	Flush mounting
Panel cutout	:	138 X 138 mm

STANDARD COMPLIANCE

Accuracy Test	:	IEC 60255-3
Insulation Test	:	IEC 60255-5

TERMINAL DIAGRAM



ORDERING INFORMATION

Battery voltage rating	:	30V, 48V, 50V, 110V, 220V, 250V DC
Aux. Supply	:	230V AC, 50Hz.