



Powering Innovation



PROTECTION + AUTOMATION + CONTROL

# EARTH LEAKAGE RELAY

## JRC 073

**JVS ELECTRONICS PVT. LTD.**

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## FEATURES

- ◆ Solid state reliability
- ◆ Built in Test facility
- ◆ Very low primary current sensing
- ◆ Core balance current transformer supplied along with the unit

## APPLICATION

The relay used for protection of LV/MV distribution systems requiring very high sensitivity for earth faults.

## PRINCIPLE OF OPERATION

The relay measures the earth leakage current from the CBCT and if it exceeds the threshold, it extends a trip signal after the operating time.



## TECHNICAL DATA RATINGS

Relay setting	:	0.3A to 4.8A in steps of 0.5A
Definite time setting	:	1 - 15 sec in steps of 1sec

## Operating characteristics

Instantaneous	:	Less than 40 milli seconds
Definite time setting	:	As mentioned above

## OVER LOAD RATING

Over load continuous	:	Withstands continuous primary fault current of 400 A.
Short time	:	Withstands primary fault current of 1200A for 10seconds

## BURDEN

Aux. Supply	:	Less than 5W
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## ACCURACY

Drop-off / pick-up	:	Between 80% to 95%
Operating Time	:	±5% or ±30ms whichever is higher

## CONTACT RATINGS

TRIP / ALARM	:	10A at 24V DC/ 230V AC
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## CONTACTS DURABILITY

Loaded contact	:	10,000 operations min.
Unloaded contact	:	20,000 Operations

## INSULATION

1. 2KV RMS, 50 Hz for 1 minute / 2.5 KV for 1 sec . Between all terminals and cases.
2. 1KV RMS, 50 Hz for 1 minute across open contacts

## MECHANICAL DESIGN

Type	:	JRC 073
Panel cutout dimension	:	73 X 137 mm (WxH)

## STANDARD COMPLIANCE

Accuracy Test	:	IEC 60255-151
Insulation Test	:	IEC 60255-27

## ORDERING INFORMATION

Relay rating type	:	JRC073
Aux. Supply	:	110V AC, 230V AC,415VAC
Inner diameter of CBCT	:	100, 200, 300, 400 mm. are standard for circular CBCTs. In case of non-standard size of CBCTs, all dimensions should be given.

## RELAY TERMINAL DIAGRAM

