



### **PROTECTION + AUTOMATION + CONTROL**

# EARTH LEAKAGE RELAY (Setting Range 0.3 to 1.8A) JRC 172

# JVS ELECTRONICS PVT. LTD.

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# EARTH LEAKAGE RELAY (Setting Range 0.3 to 1.8A) JRC 172

# **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		
JRC 172	:	0.3A to 1.8A in steps of 0.1A
Definite time setting	:	0 - 1.5 sec in steps of 0.1sec
<b>Operating characteristic</b> Operating time	S	
Instantaneous	:	Less than 40 milli seconds
Definite time setting	:	0 - 1.5 sec in steps of 0.1sec
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
ACCURACY		
Drop-off / pick-up	:	Between 80% to 95%
Operating Time	:	±5% or ±30ms whichever is higher
CONTACT RATINGS		
TRIP / ALARM		5A at 24V DC/ 230V AC
C/O	·	SA di 24V DC/ 250V AC



### **CONTACT DURABILITY**

Loaded contact			
Unloaded contact			

: 10,000 operations min.: 100,000 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**

Туре	:	JRC 172 Flush Mounting
Panel cutout dimension	:	43 X 91 mm (WxH)

#### **STANDARD COMPLIANCE**

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

#### **ORDERING INFORMATION**

Relay rating type	:	JRC 172
Aux. Supply	:	110V AC, 220V AC
Inner diameter of CBCT	:	70mm, 100mm are standard,
		Customization of CBCT is applicable.