

PROTECTION + AUTOMATION + CONTROL

THREE POLE, NON-DIRECTIONAL 3 0/C OR 2 0/C + 1 E/F RELAY JRC 053P/JRC 053

JVS ELECTRONICS PVT. LTD.

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FEATURES

- Software based design
- Programmable time current characteristics
- Choice of four IDMT curves
- Draw out case
- Wide range auxiliary supply
- Low burden

DESIGN AND OPERATION



The relay measures the line current from each of the phases and if exceeds the set operating current, then relay extends a trip signal after the operating time. The relays operating time is determined by selecting one of the four inverse time current characteristics. The relay has facility to active / inhibit the high set protection feature. The relay output contacts are self reset type. Relay operation without any fault current is determinated by trip test facility.

TECHNICAL DATA

RATINGS

Current rating **Auxiliary Supply**

1A / 5A : : 1) 20-60V DC 2) 75 – 150V AC / DC : : 3)175 - 300V DC 185 – 250V AC :

SETTINGS

Operating characteristics 1) 3.0s Normal Inverse : 2) 1.3s Normal Inverse : : 3) 1.5s Very Inverse 4) 0.8s Extremely Inverse : 5) 0.6s Extermely Inverse (Optional) : Phase Overcurrent 50% to 200% in steps of 10% or : 20% to 140% in steps of 10% : Earth fault 5 to 80% in steps of 5% : TMS 0.1 to 1.0 in steps of 0.01(Seperate for O/C & E/F) : **OVER LOAD RATINGS** 2 times rated continuous Current input :

- 20 times Rated for 3s :
- 40 times of rated for 1s :

BURDEN

Current input Aux. Supply	: : :	0.2VA at rated 5A 0.05VA at rated IA Less than 3W (Non operated) Less than 5W (Operated)
ACCURACY Operating value Drop-off / pick-up Operating time Reset Time	: : :	105% to 120% of setting value Between 80% to 95% +/-5% or +/- 30ms whichever is higher 160ms to 180ms
CONTACT RATINGS Trip / Alarm	:	10A at 24V DC/230V AC

CONTACTS DURABILITY

Unloaded contact	:	10,000 Operations
Loaded contact	:	20,000 Operations

INSULATION

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

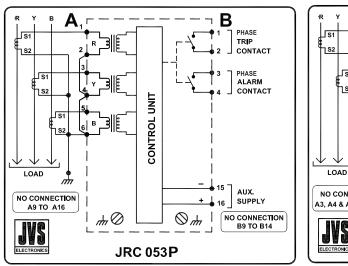
STANDARD COMPLIANCE

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

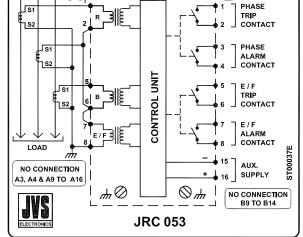
MECHANICAL DESIGN

Weight	:	Approx. 2500 gms
Case size	:	144 sq mm with depth of 232 mm
Installation	:	Flush mounting
Panel cutout	:	138 X 138 mm

В



TERMINAL DIAGRAM



ORDERING INFORMATION

Current rating Relay Type

Aux. Supply

- : 1A/5A
- JRC 053P for Over Current Protection
 JRC 053 for Over Current and Earth Fault Protection
 20 to 60V DC
 - 75 to 175V AC/DC 175 to 300V DC 185 to 250V AC