



Powering Innovation



PROTECTION + AUTOMATION + CONTROL

TWO POLE, NON-DIRECTIONAL, O/C RELAY JRC 052

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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 determined by trip test facility.

TECHNICAL DATA

RATING

Current rating (In)	1A / 5A
Aux. Supply	1) 20 to 60V DC 2) 75 to 150V AC / DC 3) 175 to 300V DC 185 to 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
Phase Overcurrent	: 50% to 200% in steps of 10% or 20% to 140% in steps of 10%
TMS	: 0.02 to 1.0 in steps of 0.01
Phase Hi-set	: 200% to 3200% in steps of 200%
Reset Mode	: Hand / Self Reset

OVER LOAD RATING

Current	: 2 times of rated continuously : 20 times of rated for 3s : 40 times of rated for 1s
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BURDEN

Current input	:	0.2 VA per phase (rated 5A) 0.05VA per phase (rated 1A)
Aux. Supply	:	Less than 8W (Non operated) Less than 10W (Operated)

ACCURACY

Operating value	:	105% to 120% of setting value
Drop-off / pick-up	:	Between 80% to 95%
Operating time	:	+/-5% or +/- 30ms whichever is higher
High set operating value	:	+/-5% or +/- 30ms whichever is higher
High set operating time	:	Less than 30ms @ 2 times
Current setting Reset Time	:	160ms to 180ms

CONTACT RATINGS

TRIP / ALARM / Self Supervision	:	10A at 24V DC / 230V AC
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CONTACT DURABILITY

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

INSULATION

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

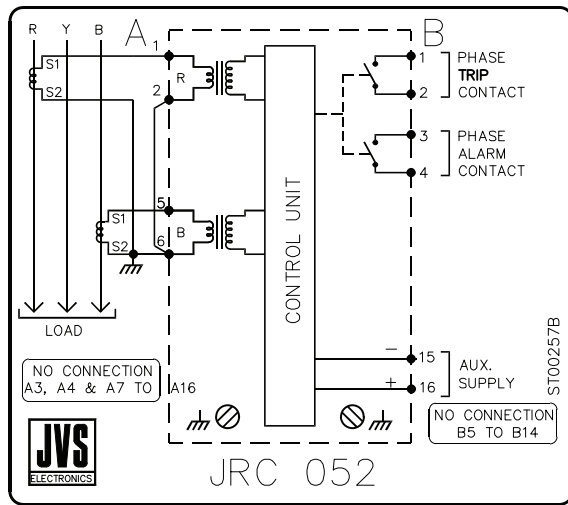
STANDARD COMPLIANCE

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

MECHANICAL DESIGN

Weight Case	:	2500 gms. (approx),
Size	:	144sq mm, depth 232mm
Installation	:	Flush mounting
Panel cutout	:	138m x 138mm

TERMINAL DIAGRAM



ORDERING INFORMATION

- Relay Type : JRC 052
- Low set (IDMT) 2 O/C
- Current rating : 1A or 5A
- Aux Supply : 1) 20-60V DC
- : 2) 75 – 150V AC / DC
- : 3) 175 – 300V DC
- : 185 – 250V AC