



PROTECTION + AUTOMATION + CONTROL

SINGLE STAGE, NEUTRAL DISPLACEMENT RELAY JRV 062

JVS ELECTRONICS PVT. LTD.

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SINGLE STAGE, NEUTRAL DISPLACEMENT RELAY JRV 062

FEATURES

- Software based design
- Instantaneous/ Definite time selection
- Insensitive to voltages at third harmonic frequencies
- Wide setting range
- Wide auxiliary range

APPLICATION

Neutral Displacement Relay is used for protection of motors, generators and capacitor banks.

PRINCIPLE OF OPERATION

NDR is a voltage operated relay and get's sensing voltage from open delta secondary of potential transformer.



Whenever there is a ground fault in one phase, the voltage in other two phases will rise and generate a sensing voltage which is continuously monitored in the relay. When this voltage exceeds the set value the internal relay operates. The Relay contacts can be used for Alarm & Trip purpose.

The Relay contacts are self reset type and indications are latched. The RESET button provided on the front of relay to clear these latched indications. The TEST button is provided to test the relay contacts for the trip and alarm circuits.

TECHNICAL DATA

RATINGS

Voltage rating Auxiliary supply	:	63.5V / 110V AC 20 to 60V DC 75 to 150V DC
SETTINGS		175 to 300V DC / 185-250V AC
Voltage setting	:	2.5% to 80% in steps of 2.5%
Definite time	:	0 to 25sec in steps of 0.1sec
OVER LOAD RATINGS		
Voltage input	:	2 times Rated continuous
BURDEN		
BURDEN Voltage input	:	Less than 2VA at Rated
	:	Less than 2VA at Rated Less than 2W (Non Operated)
Voltage input Auxiliary supply	:	
Voltage input	:	Less than 2W (Non Operated)
Voltage input Auxiliary supply	:	Less than 2W (Non Operated)
Voltage input Auxiliary supply ACCURACY	-	Less than 2W (Non Operated) Less than 5W (Operated)
Voltage input Auxiliary supply ACCURACY Operating value	:	Less than 2W (Non Operated) Less than 5W (Operated) ±5%

CONTACT RATINGS

Ratings

: 10A at 24V DC / 230V AC

CONTACTS DURABILITY

Unloaded contact	:	1,00,000 Operations
Loaded contact	:	10,000 Operations

INSULATION

1. 2KV RMS, 50 Hz for 1 minute / 2.5 KV for 1s . Between all terminals and cases .

2. 1 KV RMS, 50 Hz for 1 minute across open contacts

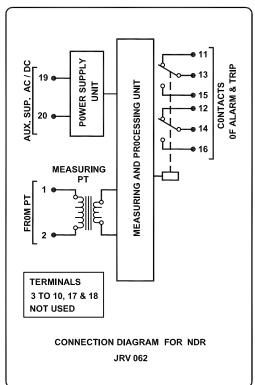
MECHANICAL DESIGN

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 60255-151
Insulation Test	:	IEC 60255-27

TERMINAL DIAGRAM



ORDERING INFORMATION

Voltage rating Relay type Auxiliary supply 63.5V/ 110V AC

JRV 062 (Single Stage NDR)

20-60V DC

:

:

:

75-150V AC/DC

175-300 V DC / 185-250V AC