Three-phase Voltage Monitoring Relay
JVRD

Features

- Compact modular size
- Three-phase monitoring of phase sequence, phase loss, over- and undervoltage and phase unbalance
- Adjustable over- and undervoltage threshold and delay time(for JVRD-xxxW)
- Neutral loss monitoring(for JVRD-xxxN & JVRD-NK)
- Powered by the measuring circuit
- 2 C/O contacts
- Max 5 LEDs for status indication

Protective Functions

- Phase Loss(Failure)
- Pase Sequence (Reversal)
- Phase Unbalance (Asymmetry)
- Undervoltage
- Overvoltage
- Neutral loss

Applications

- Pumps
- Fans
- Refrigeration Units
- Blowers
- Motors
- Compressors
- Lifts,Elevators
- Cranes
- Mining excavators and conveyors

Order information

JVRD — 38 0 N A

1 2 3 4 5

1. Basic Model

2. Rated Voltage Code

22-220VAC,38-380VAC,40-400VAC,44-440VAC,46-460VAC

3.Function Code

Code	phase sequence	phass loss	phase unbalance	over voltage	under voltage
0	●	●	●	●	●
1	●	●	●		
2		●	●	●	●
3		●	●		
4				●	●

4.Input Mode

blank: 3-phase 3-wire , *N:3-phase 4-wire,with neutral loss monitoring

5.Voltage Threshold(enable for JVRD-xx0,JVRD-xx2,JVRD-xx4)

Type Suffix	Overvoltage	Undervoltage
blank	+15%	-15%
A	+10%	-10%
B	+12.5%	-10%
C	+15%	-12.5%
W	+5%~+20% adjustable	-5%~-20% adjustable
T	customized	customized

**For 3-phase 4-wire mode relays(JVRD-xxxN & JVRD-NK),the relay detects the interruption of the neutral in the main to be monitored by means of phase unbalance evaluation.Determined by the system, in case of unloaded neutral, i. e. symmetrical load between all three phases, it may happen that an interruption of the neutral will not be detected.*

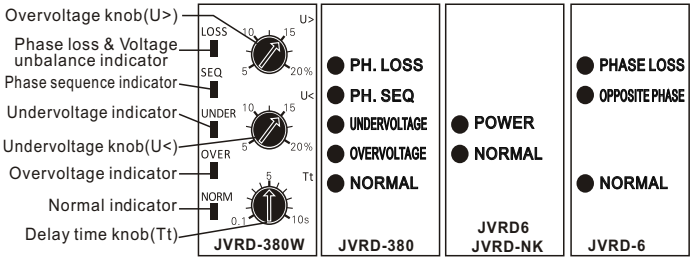
Wide Voltage Range Models

Model	Operating Voltage (line voltage)	Functions
JVRD6	3-phase 3-wire,200-500VAC	phass loss,phase sequence
JVRD-6	3-phase 3-wire,200-500VAC	phass loss,phase sequence, phase unbalance
JVRD-NK	3-phase 4-wire,200-500VAC	*phass loss,phase sequence neutral loss(see note on page 2)

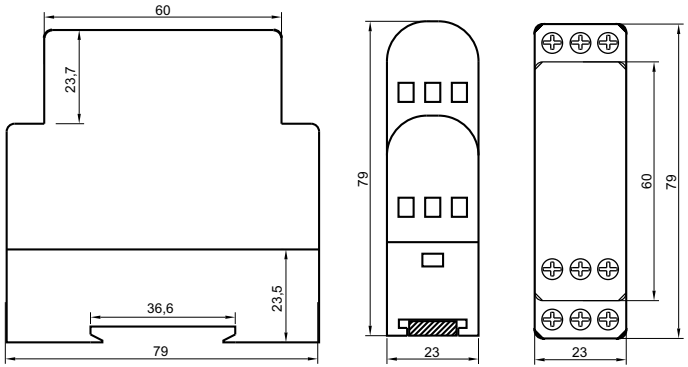
Technical data

Model	JVRD
Input circuit = Measuring circuit	L1,L2,L3 or L1,L2,L3,N
Rated voltage(line voltage)	220VAC,380VAC,400VAC 440VAC,460VAC,50/60Hz
Monitoring functions	phase sequence, phase loss, overvolatege, undervoltage, phase unbalance,neutral loss
Phase unbalance threshold	15% fixed
Delay time for overvoltage and undervoltage	5-8s fixed (0.1-10s adjustable for JVRD-xxxW)
Delay time for phaseloss, phase unbalance,phase sequence	1-2s fixed
Reset time	0.5s fixed
Indicators	phase sequence, phase loss, overvolatege, undervoltage, normal
Output contacts	2 C/O(1C/O &1NC for 3-phase 4-wire)
Contact capacity	6A,250VAC (resistive load)
Degree of protection	IP 20
Working conditions	-25℃~65℃,≤85%RH,non-condensing
Mechanical durability	1000000 cycles
Dielectric strength	>2kVAC 1min
Weight	130g
Dimensions (H x W x D)	79X23X79mm
Mounting	DIN rail

■ Front Panel View

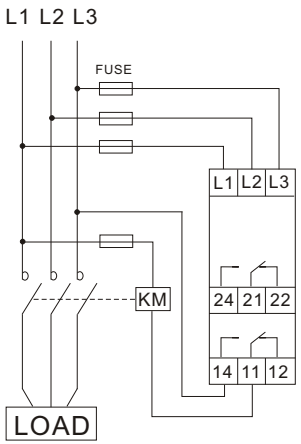


■ Dimensions(mm)

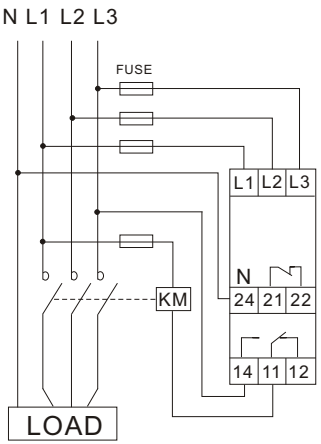


■ Wiring Diagram

○ 3-phase 3-wire



○ 3-phase 4-wire



Relay contact position shown in 'Power off' condition

GENERAL SAFETY

POTENTIALLY HAZARDOUS VOLTAGES ARE PRESENT AT THE TERMINALS OF THE RELAYS.
ALL ELECTRICAL POWER SHOULD BE REMOVED WHEN CONNECTING OR DISCONNECTING WIRING.
THIS DEVICE SHOULD BE INSTALLED AND SERVICED BY QUALIFIED PERSONNEL.

Note: specifications are subject to change without notice.

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