

Voltage Detecting Protecting Relay



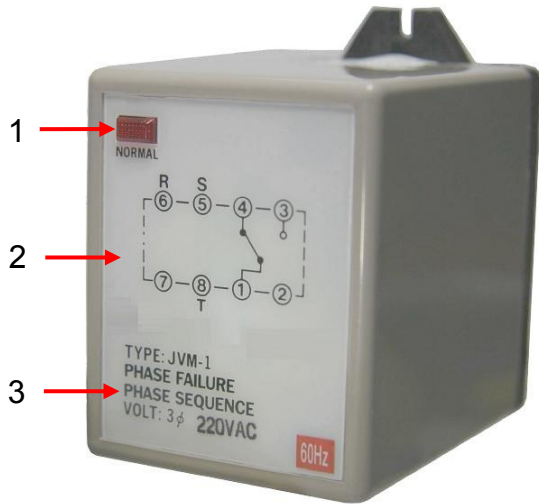
Application

1. Phase Failure
2. Phase Sequence
3. Over / Under Voltage

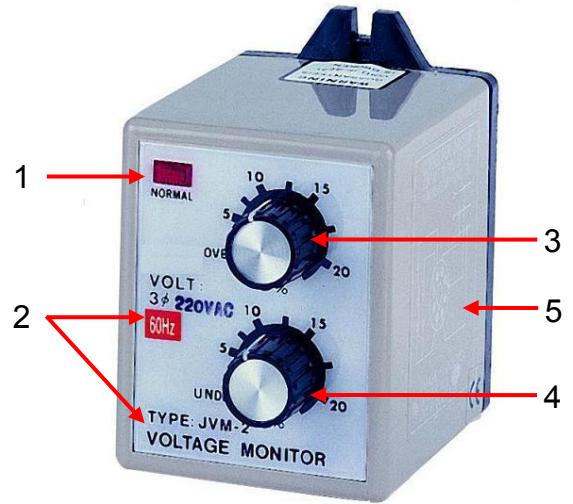
Features

1. For preventing from three phase Inductive Motors reverses, it's included additional power surging protection within 440V and to protect the overloading situation.
2. Phase failure protection: When Power is fail, the loading is stop.
3. Phase Sequence protection: When measuring the sequence of three phase, the power is stop to prevent motors from reversing.
4. This series is for detecting and protecting the power status. When the power is applied un-normally, the protect relay automatically stops the power as well as to protect the electric circuits in the system.

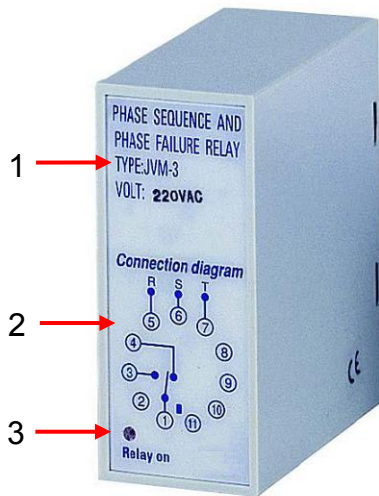
Panel Function



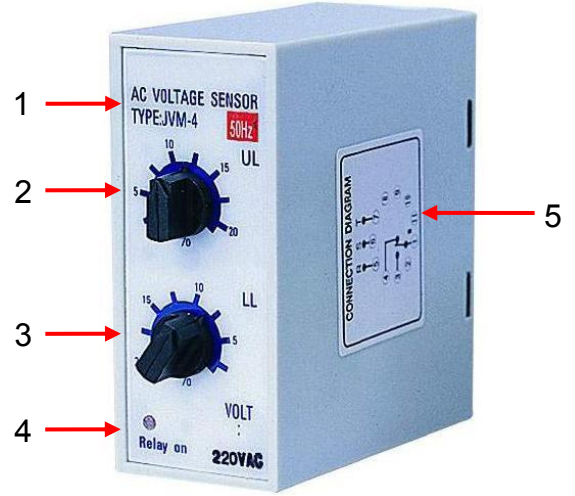
	MARKS
1	Action indication
2	Diagram
3	Model No.



	MARKS
1	Action indication
2	Model No.
3	Over set knob
4	Under set knob
5	Diagram







	MARKS
1	Model No.
2	Diagram
3	Action indication



	MARKS
1	Model no.
2	Over set knob
3	Under set knob
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5	Diagram

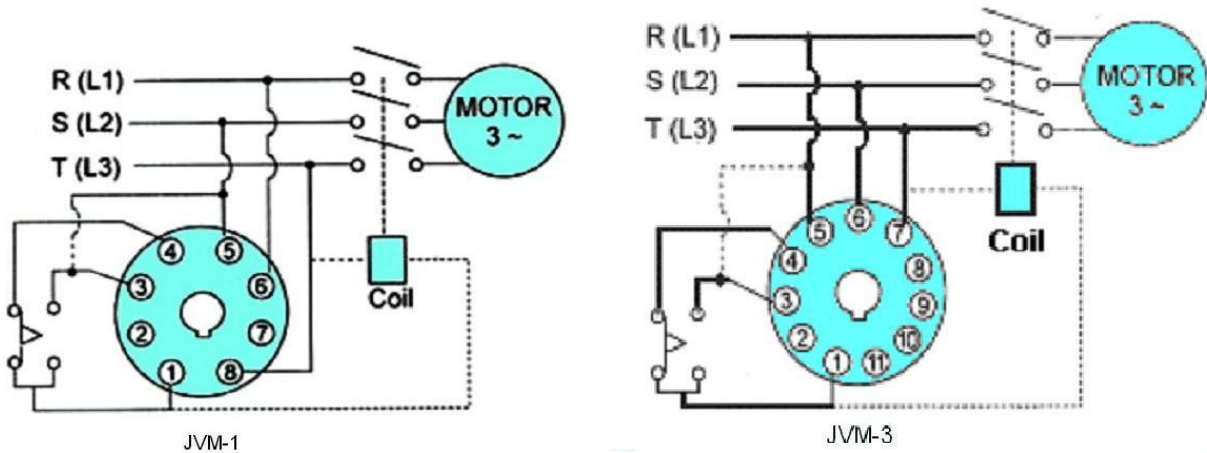
Standard Specification

Model		JVM-1	JVM-2	JVM-3	JVM-4
Appearance					
Features		Phase Failure Phase Sequence	Phase Failure Phase Sequence Over Voltage Under Voltage	Phase Failure Phase Sequence	Phase Failure Phase Sequence Over Voltage Under Voltage
Surface Mounting		Socket base 8PFA	Socket base 8PFA	Socket base P2CF11	Socket base P2CF11
Output Capacity		SPDT 7A / 250VAC			
Response time		Delay on : 0.5 Sec Delay off : 3 Sec			
Frequency		50Hz or 60Hz (Depend upon user's area)			
Rated Voltage (Range :80~110%)		3Ø 220 , 380 , 410 , 440	3Ø : 220 , 380 , 410 , 440 1Ø : 110 , 220 , 380 , 410 , 440	3Ø 220 , 380 , 410 , 440	3Ø : 220 , 380 , 410 , 440 1Ø : 110 , 220 , 380 , 410 , 440
Life	Mechanically	10,000,000 Times			
	Electrically AC220V PF=1	500,000 Times			
Accuracy	Repeat	-	±2% Max	-	±2% Max
	Setting	-	±10% Max	-	±10% Max
	Voltage	-	±2% Max	-	±2% Max
	Temperature	-	±2% Max	-	±2% Max
Reset Time		0.2 Sec Max			
Ambient Temp		-10°C ~ +55°C			
Ambient Humidity		85% Max RH			

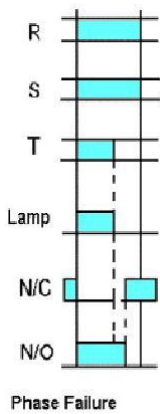
Connection & Operational Diagrams

Type : JVM-1 & JVM-3

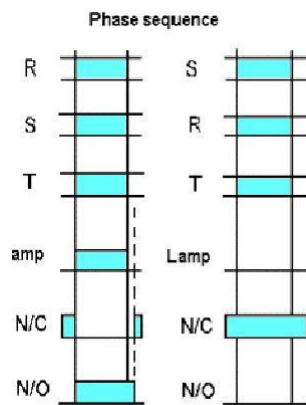
A. Wiring diagram



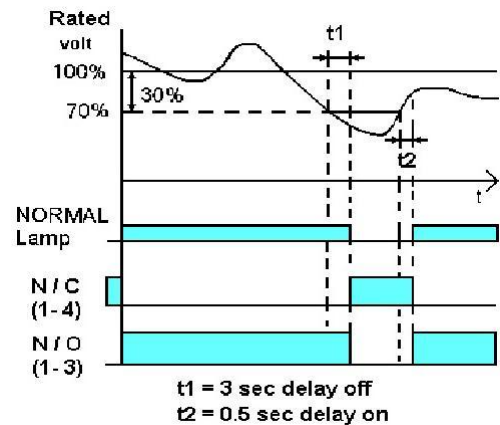
B. Phase Failure



C. Phase Sequence



D. Timing



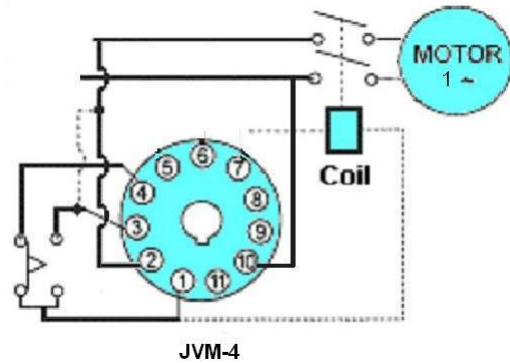
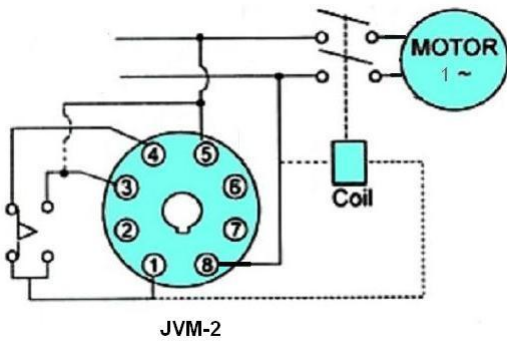
E. Explanation:

1. Output relay will be switched to ON (pin#1 & pin#3 close) immediately when power is applied to the unit with correct phase sequence and voltages.
2. In case of any phase failure or voltage drops below 70% of the rated voltage which lasts for 3 seconds, then the output relay will return to its original position (pin#1 & pin#4 close) to cut power until 3 phase voltages and phase sequence are correct.

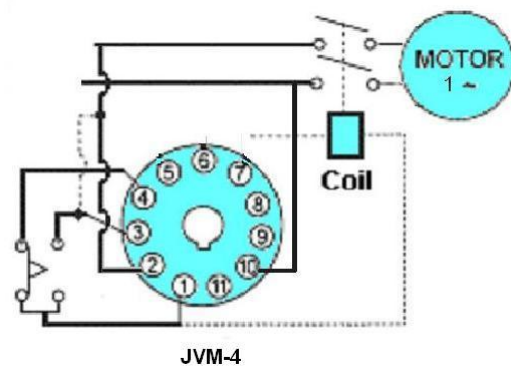
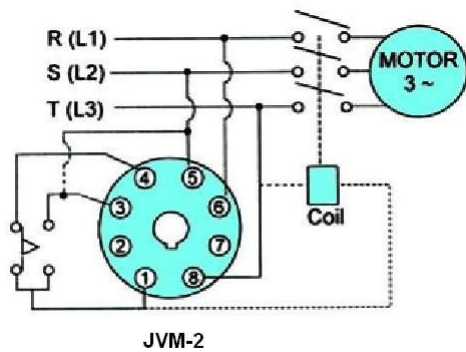
Type : JVM-2&JVM-4

A. Wiring diagram

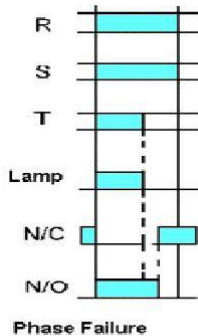
1. Single phase



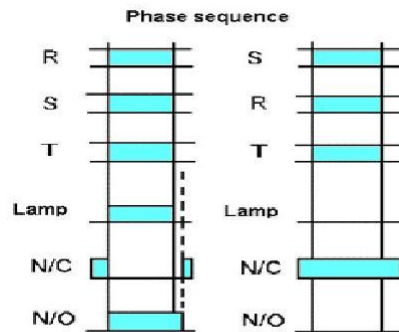
2. Three phase



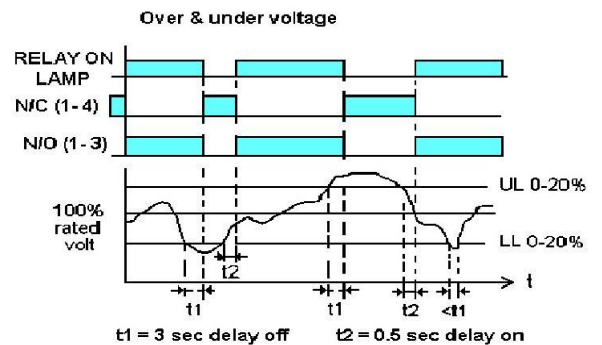
B. Phase Failure



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D. Timing

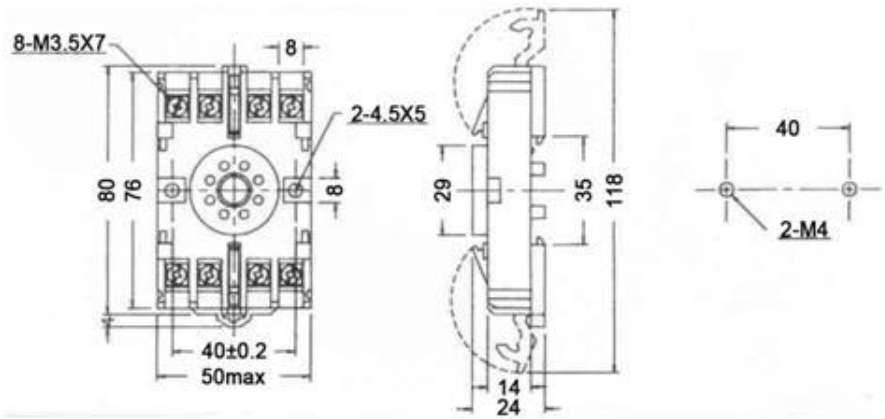
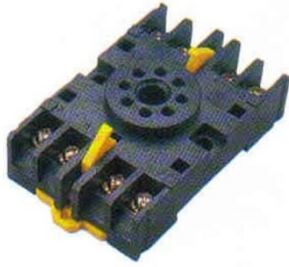


E. Explanation:

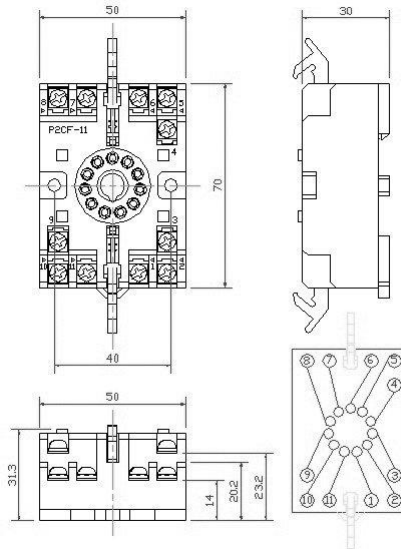
- Output relay will operate to ON (pin#1 & pin#3 close) when power is applied to the unit normally, and simultaneously detect if supplied power voltages (single or three phase) are within the set voltage range, and phases in correct sequence for three phase type.
- 0% to 20% knob-adjustable separately for over voltage and under voltage. If voltage is over under than the setting voltage for over 3 second, then the output relay will be released to its original position (pin#1 & pin#4 close).

Socket Base

8PFA



P2CF11



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