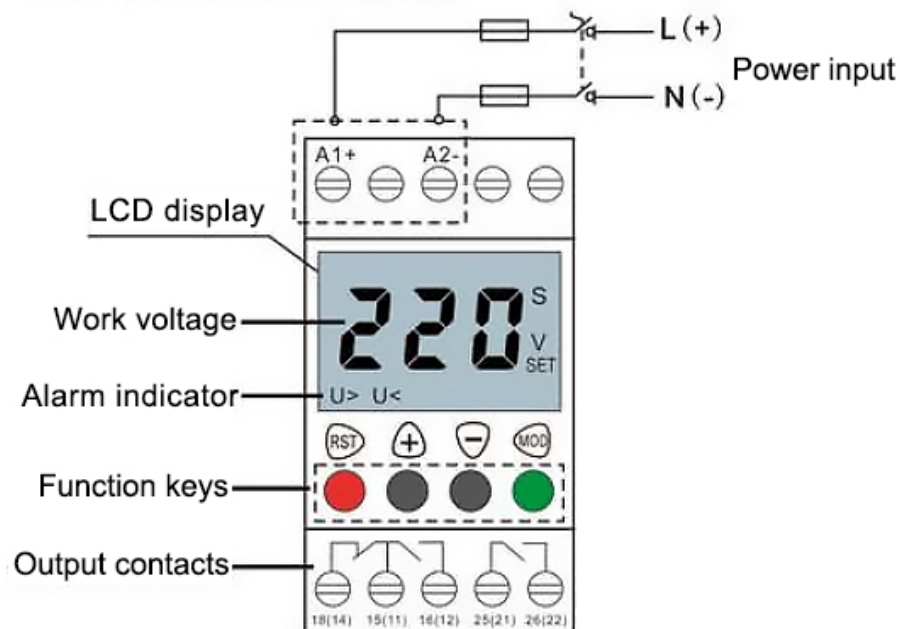




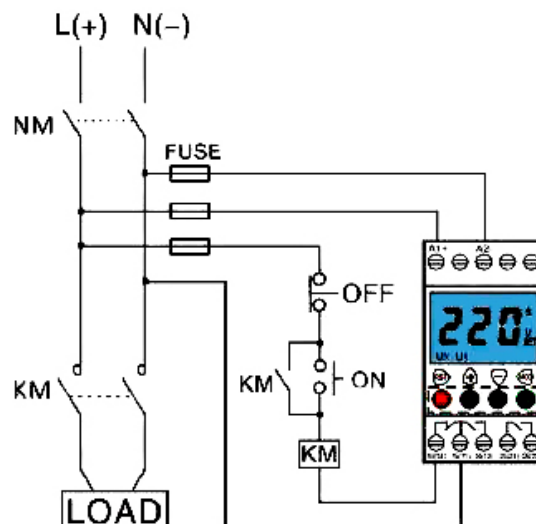
Features:

- LCD voltage display
- Compatible with AC and DC supply
- Over voltage and under voltage protection
- 3 reset modes and fault records

Panel and Terminals Show:



Wiring Diagram:



Specification:

Model	ATO-SVR1000/D12	ATO-SVR1000/AD48	ATO-SVR1000/AD220
Measuring Circuit	AC/DC circuit (A1+, A2-)		
Monitoring Functions	Overvoltage, Undervoltage		
Rated Voltage	DC 12V	AC/DC 24-48V 50/60Hz	AC/DC 110-240V 50/60Hz
Undervoltage Setting Range	DC 9-18V adjustable	AC/DC 20-80V adjustable	AC/DC 50-300V adjustable
Overvoltage Setting Range	DC 9-18V adjustable	AC/DC 20-80V adjustable	AC/DC 50-300V adjustable
Voltage Hysteresis	0.1-6.0V adjustable	0.1-30.0V adjustable	1.0-90.0V adjustable
Delay Time for Overvoltage & Undervoltage	0.1-999s adjustable		
Reset Mode	Manual/Automatic/Automatic with power-on delay		
Delay Time for Reset	0.1-999s adjustable		
Indicator	LCD display indicating voltage, operation and fault status		
Fault Records	The last 3 faults		
Output Contacts	1 CO + 1 NC		
Contact Capacity	6A, 250V AC (resistive load)		
Degree of Protection	IP 20		
Working Conditions	Operating Temperature	-25°C~65°C	
	Humidity	≤85% RH, non-condensing	
Mechanical Durability	1,000,000 cycles		
Dielectric Strength	>2kV AC 1min		
Mounting	35mm DIN rail		
Weight	130g		
Dimensions (H*W*D)	80*43*54mm		



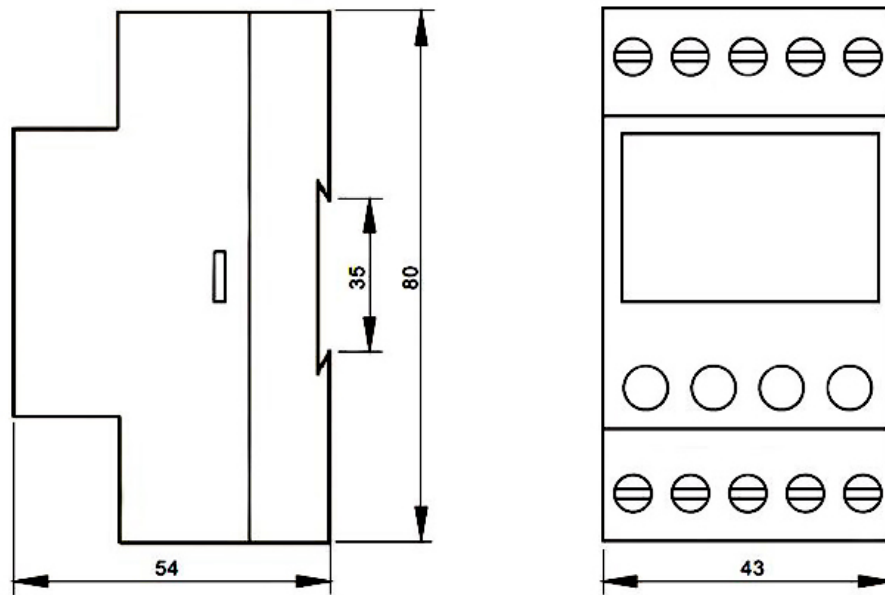
Features:

- Compact modular 43 mm housing
- 1NO & 1CO contacts
- Microprocessor technology provides highly accurate and repeatable protection
- Built-in LCD and keypad afford a precisedigital setting
- Adjustable over and undervoltage, phase unbalance threshold
- Adjustable reset method:automatic reset ormanual reset

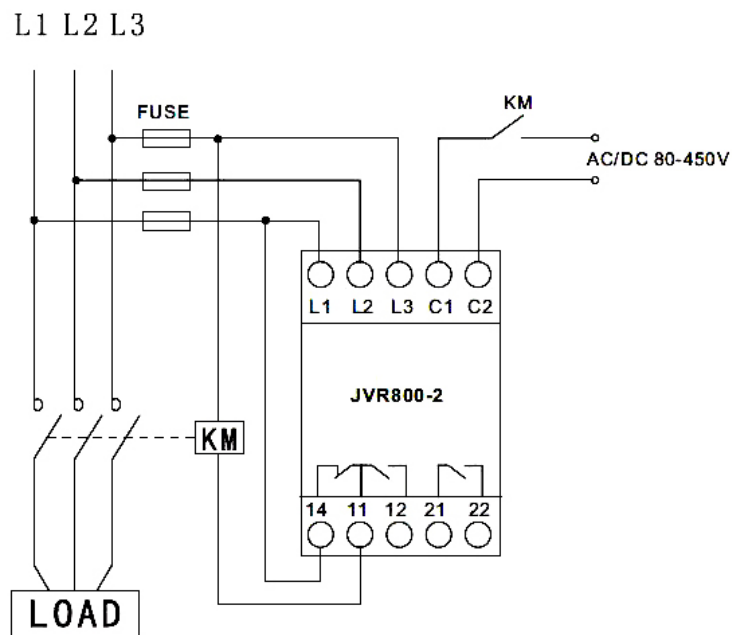
Specification:

Model	ATO-JVR800-2
Rated Suply Range	208-480V AC
Operating Range	160-600V AC
Operating Frequency	50/60Hz
Max Counting Frequency	5 Hz
Total Timing Error	≤0.001%
Counting Input Signal	AC/DC 80-450V
Measurement Error	≤1% with adjustable voltage range
Data Rentention Time	10 years
Output Type	1NO & 1CO
Contact Capacity	6A, 250V AC/30V DC (resistive load)
Degree of Protection	IP20
Working Conditions	-25°C-65°C, ≤85% RH, non-condensing
Mechanical Durability	1000000 cycles
Dielectric Strength	>2KV AC 1min
Weight	130g
Dimensions (H*W*D)	80*43*54 mm
Mounting	35 mm DIN rail

Dimension (Unit: mm)



Wiring Diagram:



Notes:

1. "ON" means enable the function, "OFF" means disable the function.
2. Start delay time is equivalent to power-on delay time.
3. Timer and counter records for running and fault will be clear all if this function is YES.
4. The relay would automatically exit setting interface if any key is not pressed for consecutive 30 seconds.



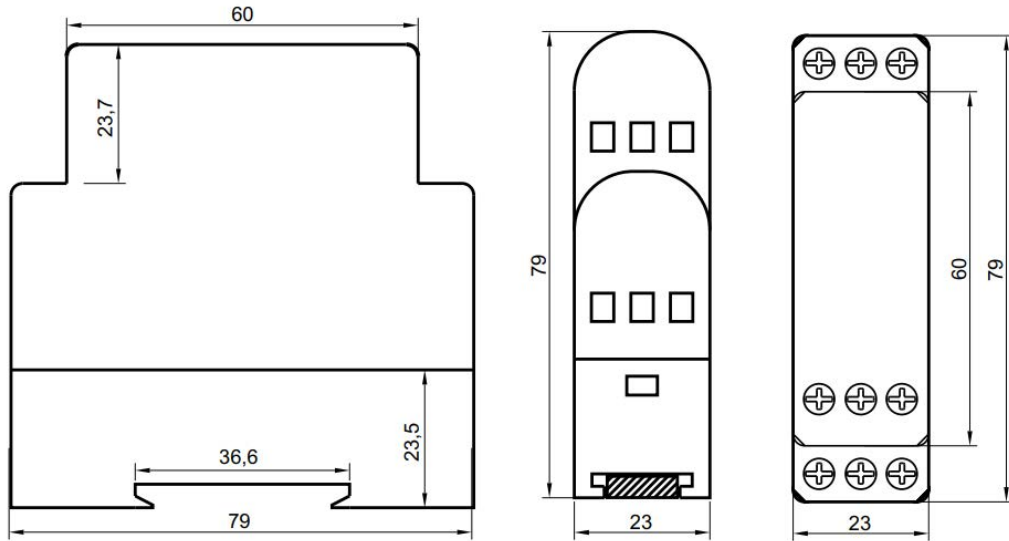
Features:

- Compact modular size
- DC circuit monitoring of over and under voltage
- Adjustable over and under voltage threshold
- Adjustable trip delay time
- Powered by the measuring circuit
- 2 C/O contacts
- 2 LEDs for status indication

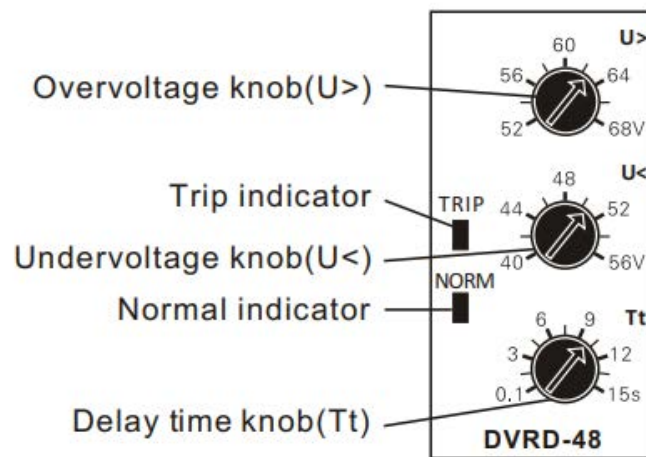
Specification:

Model		ATO-DV RD-12	ATO-DV RD-24	ATO-DV RD-36	ATO-DV RD-48
Measuring Circuit		DC circuit			
Monitoring Functions		overvoltage, undervoltage			
Rated Voltage		DC 12V	DC 24V	DC 36V	DC 48V
Voltage Setting Range	Undervoltage	10-14V	20-28V	30-42V	40-56V
	Overvoltage	13-17V	26-34V	39-51V	52-68V
Trip Delay Time		0.1-15s adjustable			
Voltage Hysteresis		3-5% fixed			
Indicators		LED indicators for Normal, Trip			
Output Contacts		2 C/O			
Contact Capacity		6A, 250V AC (resistive load)			
Degree of Protection		IP 20			
Working Conditions	Operating Temperature	-25°C~65°C			
	Humidity	≤85% RH, non-condensing			
Mechanical Durability		1,000,000 cycles			
Dielectric Strength		>2kV AC 1 min			
Power Consumption		≤2W			
Mounting		35mm DIN rail			
Weight		130g			
Dimensions (H*W*D)		79*23*79mm			

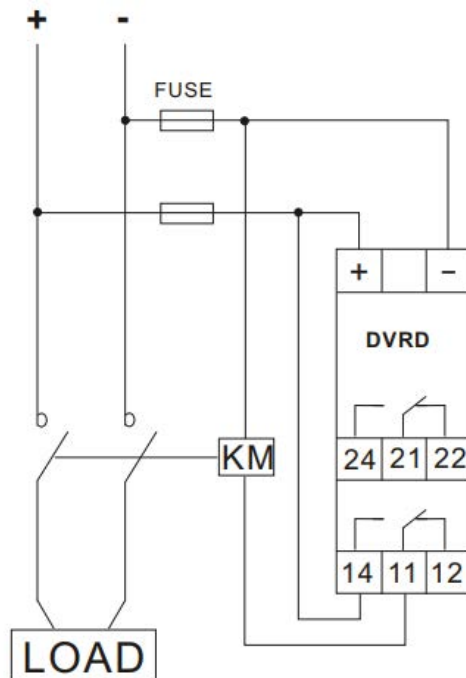
Dimension (Unit: mm)



Front Panel View:



Wiring Diagram:





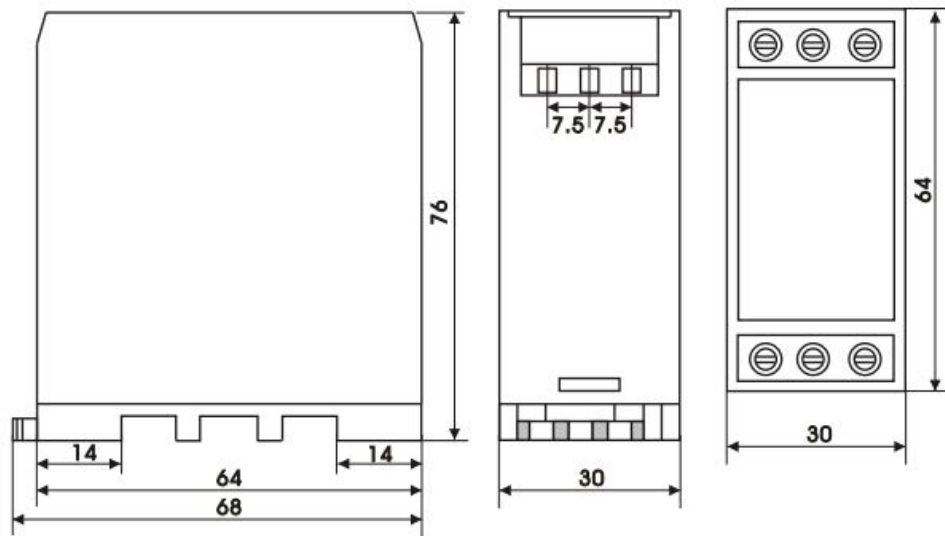
Features:

- Compact modular size
- Three phase monitoring of phase sequence, over and undervoltage phase loss and phase unbalance
- Adjustable over and undervoltage threshold
- Powered by the measuring circuit
- 1 C/O contact
- 5 LEDs for status indication

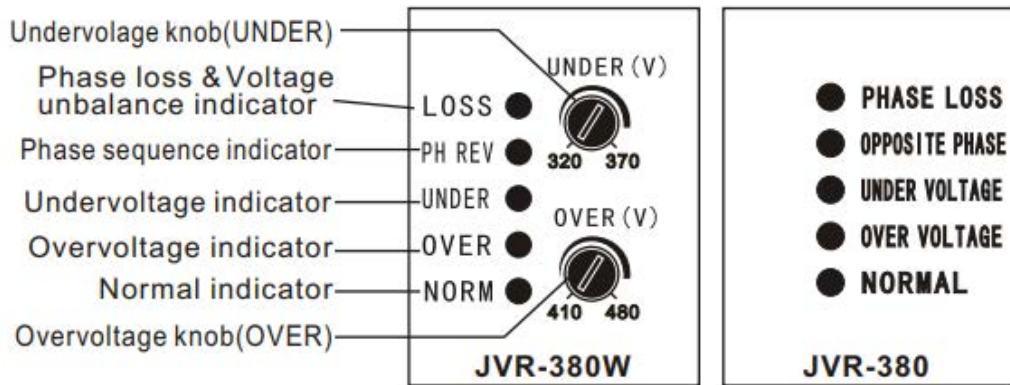
Specification:

Model	ATO-JVR		
Measuring Circuit	3-phase AC: L1, L2, L3		
Monitoring Functions	phase sequence (reversal), phase loss (failure), phase unbalance		
	overvoltage, undervoltage		
Rated Voltage (line voltage) (Optional)	220V AC, 380V AC, 440V AC, 460V AC, 480V AC 50/60Hz		
Voltage Setting Range (Optional)	model suffix	undervoltage	overvoltage
	blank	-15%	15%
	A	-10%	10%
	B	-10%	12.50%
	C	-12.50%	15%
Voltage Unbalance Threshold	15% fixed		
Delay Time for Undervoltage & Overvoltage	5-8s fixed		
Delay Time for Phase Loss, Phase Unbalance, Phase Sequence	1-2s fixed		
Reset Time	0.5s fixed		
Indicator	LED indicating phase sequence, phase loss, overvoltage, undervoltage, and normal status		
Output Contacts	1 C/O (SPDT or 1 Form C)		
Contact Capacity	3A, 250V AC (resistive load)		
Degree of Protection	IP 20		
Working Conditions	Operating Temperature	-25°C~65°C	
	Humidity	≤85% RH, non-condensing	
Mechanical Durability	1,000,000 cycles		
Dielectric Strength	>2kV AC 1 min		
Mounting	35mm DIN rail		
Weight	110g		
Dimensions (H*W*D)	68*30*76mm		

Dimension (Unit: mm)



Front Panel View:



Wiring Diagram:

