

Under voltage relay GRV8-□UV□ series

Instruction Manual



General

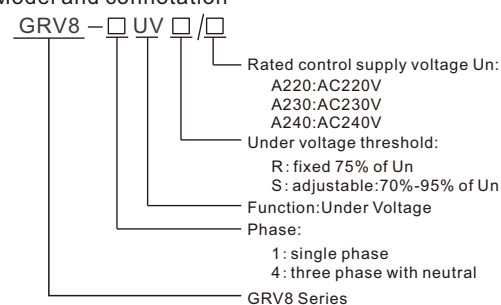
■Applications

-Product is used for highly fluctuating inductive load such as Air Conditioning system in Industrial and commercial establishments. It protects the system equipment and load from sudden under voltage fluctuations..

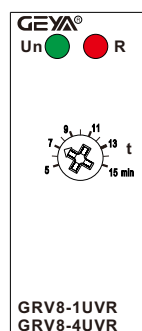
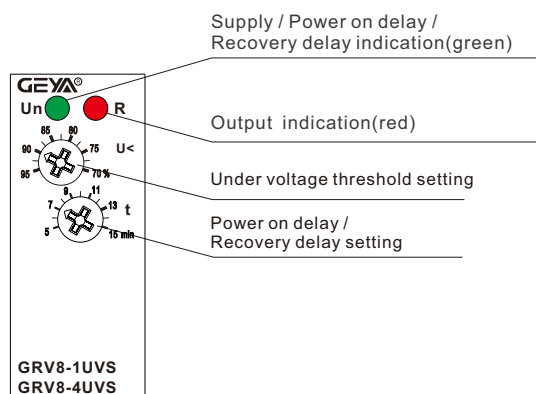
■Function Features

- Controls its own supply voltage(True RMS measurement).
- Measuring frequency range:45Hz-65Hz.
- Voltage measurement accuracy<1%.
- Relay status is indicated by LED.
- 1-MODULE,DIN rail mounting.

■Model and connotation



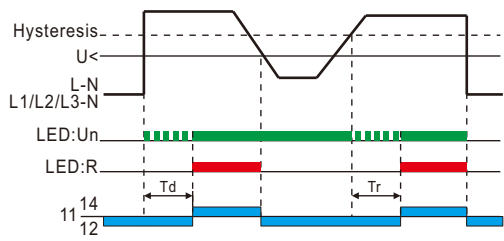
Panel Diagram



Technical parameters

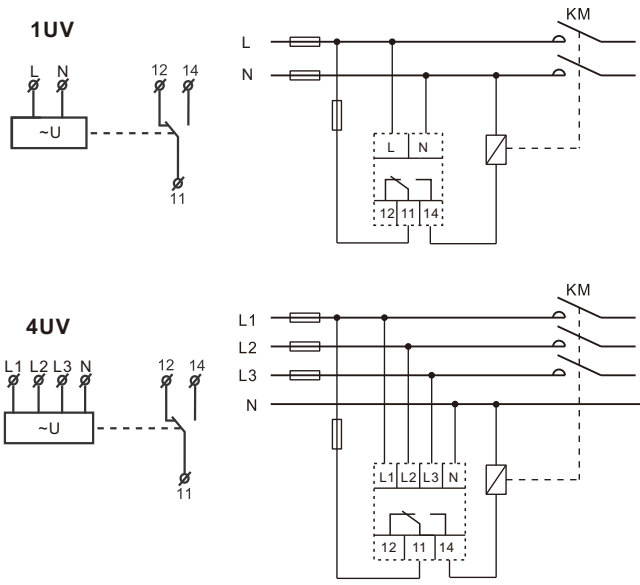
Item	1UV	4UV
Function	Under voltage	
Monitoring terminals	L-N	L1-L2-L3-N
Supply terminals	L-N	L1-N
Rated supply voltage(Un)	220V/230V/240V	
Rated supply frequency	45Hz-65Hz	
Under voltage threshold	R:fixed 75% of Un; S:70%-95%of Un	
Trip delay time(Tu)	0.1s	
Hysteresis	5V	
Measurement error	≤1%	
Power on delay time(Td)	Adjustable: 5min-15min	
Recovery delay time(Tr)	Adjustable: 5min-15min	
Konb setting accuracy	10% of scale value	
Supply indication	green LED	
Output indication	red LED	
Output	1×SPDT	
Current rating	10A/ AC1	
Switching voltage	250VAC/24VDC	
Mechanical life	1×10 ⁷	
Electrical life(AC1)	1×10 ⁵	
Operating temperature	-20°C to +55°C (-4°F to 131°F)	
Storage temperature	-35°C to +75°C (-22°F to 158°F)	
Mounting/DIN rail	Din rail EN/IEC 60715	
Protection degree	IP40 for front panel/IP20 terminals	
Operating position	any	
Overvoltage category	III.	
Pollution degree	2	
Max.cable size(mm ²)	solid wire max.1×2.5or 2×1.5/with sleeve max.1×2.5(AWG 12)	
Tightening torque	0.8Nm	
Dimensions	90×18×64mm	
Weight	63g,65g	
Standards	EN 60255-1,IEC60947-5-1	

Functions Diagram

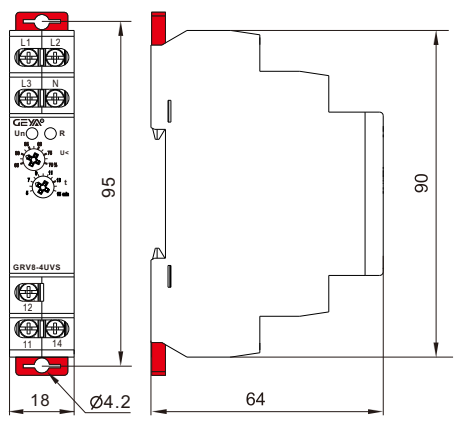


Td: Power on delay
Tr: Undervoltage recovery delay
Td = Tr

Wiring Diagram



Dimensions(mm)



Disposal of Electrical Waste
All electrical waste should be disposed of in compliance with current WEEE regulations.



Caution
The products must be installed by qualified electricians. All and any electrical connections of the product shall comply with the appropriate safety standards.