



General

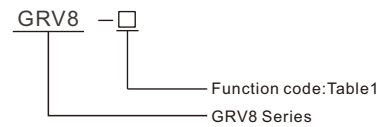
Applications

- Control for connection of moving equipment(site equipment, agricultural equipment,refrigerated trucks).
- Control for protection of persons and equipment against the consequences of reverse running.
- Normal/emergency power supply switching.
- Protection against the risk of a driving load(phase failure).

Function Features

- Controls its own supply voltage(True RMS measurement).
- Set 8-level rated operating voltage through knob.
- 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

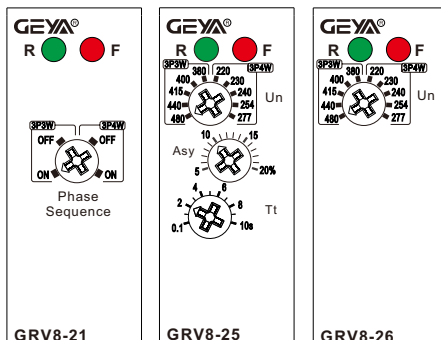
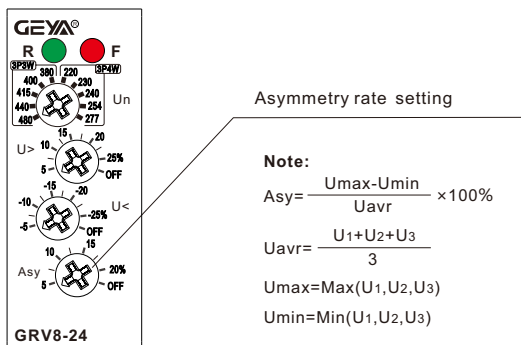
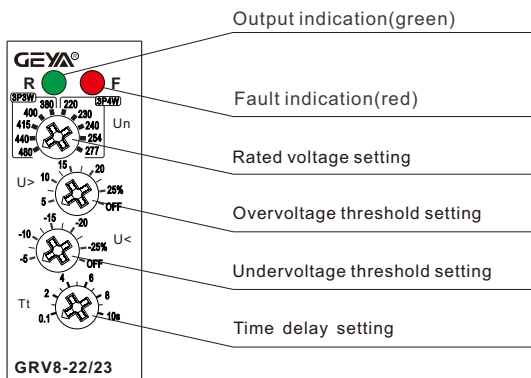


Table1

Function code	Over-voltage	Under-voltage	Asymmetry	Delay time	Phase sequence	Phase failure
21					○	●
22	2%...25%,OFF	OFF,-25%...-2%		0.1s...10s	●	●
23	2%...25%,OFF	OFF,-25%...-2%	8%	0.1s...10s	●	●
24	2%...25%,OFF	OFF,-25%...-2%	2%...20%,OFF	2s	●	●
25			2%...20%	0.1s...10s	●	●
26	15%	-15%	8%	2s	●	●

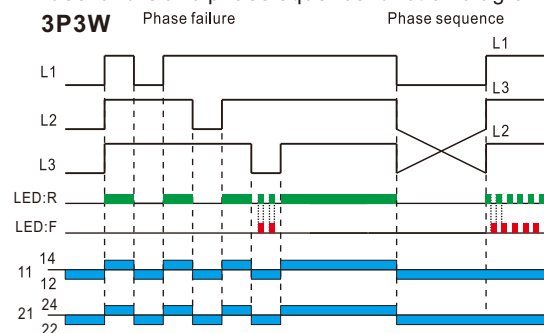
Note: ● the function is available
○ the function is adjustable

Technical parameters

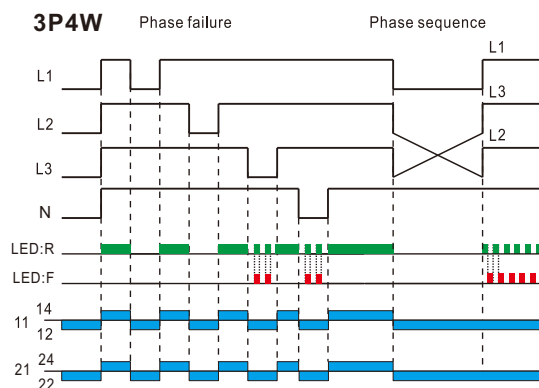
Technical parameters	3P3W	3P4W
Function	Monitoring 3-phase voltage	
Monitoring terminals	L1-L2-L3	L1-L2-L3-N
Supply terminals	L1-L2	L1-L2
Voltage range	380-400-415-440-480 (P-P)	220-230-240-254-277 (P-N)
Rated supply frequency	45Hz-65Hz	
Measuring range	260V-600V	150V-350V
Threshold adjustment voltage	2%-25% of U_n selected	
Adjustment of asymmetry threshold	5%-20%	
Hysteresis	2%	
Phase failure value	70% of U_n selected	70% of U_n selected
Time delay	Adjustable 0.1s-10s, 10%	
Measurement error	$\leq 2\%$	
Run up delay at power up	0.5s time delay	
Konb setting accuracy	10% of scale value	
Supply indication	green LED	
Output indication	red LED	
Reset time	1s	
Output	2×SPDT	
Current rating	8A/AC1	
Switching voltage	250VAC/24VDC	
Min.breaking capacity DC	500mW	
Temperature coefficient	0.05%/°C, at=20°C(0.05°F, at=68°F)	
Mechanical life	1×10^7	
Electrical life(AC1)	1×10^5	

Functions Diagram

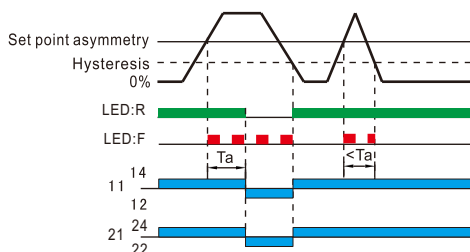
●Phase failure and phase sequence function diagram



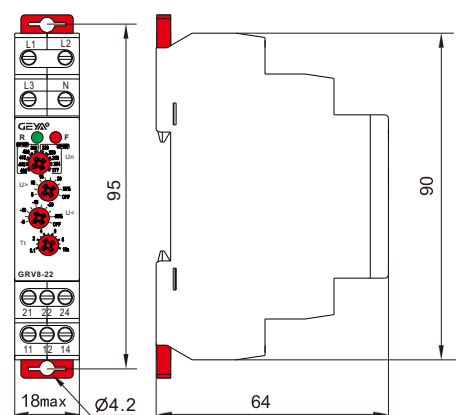
●Phase failure and phase sequence function diagram



●Asymmetry function diagram

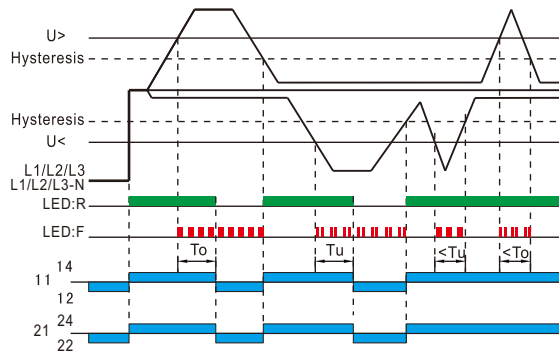


Dimensions(mm)



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	0.4Nm
Dimensions	90×18×64mm
Weight	68g-71g

●Overvoltage and undervoltage function diagram



T_o :Overvoltage threshold tripping delay.

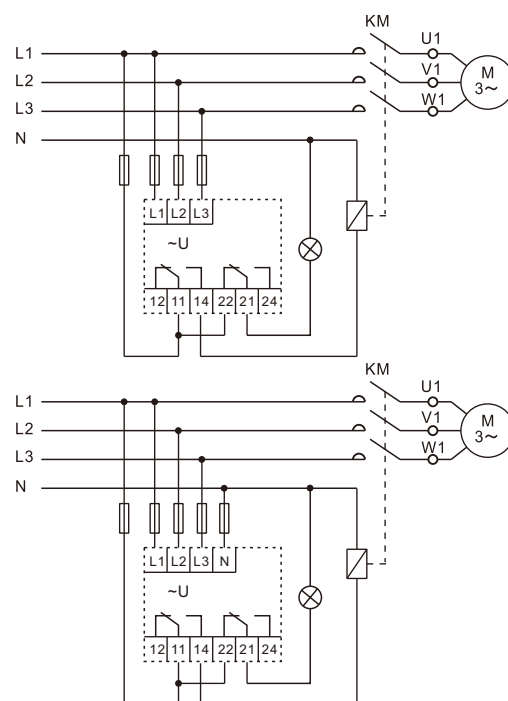
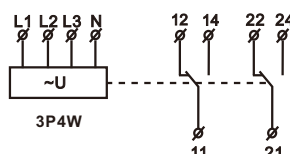
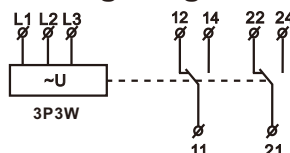
T_u :Undervoltage threshold tripping delay.

T_a :Asymmetry threshold tripping delay.

NOTE:

1. In case of phase failure at power supply terminals (L1 and L2), the function LED would not make indication.
2. If the Un switch position is changed while the device is operating, the two LEDs flash for a short time, but the product continues to operate normally with the voltage selected at the time of energisation preceding the change of position. The LED's return to their normal state if the switch is returned to the original position selected prior to the last energisation.

Wiring Diagram



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.

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