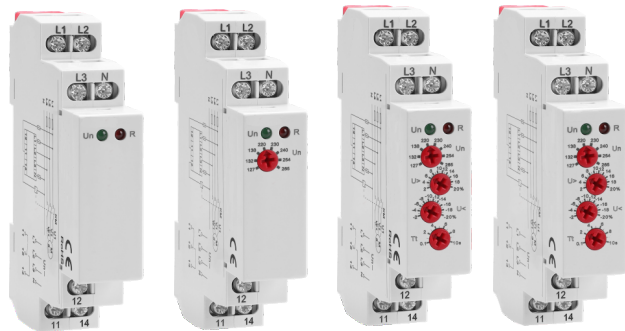
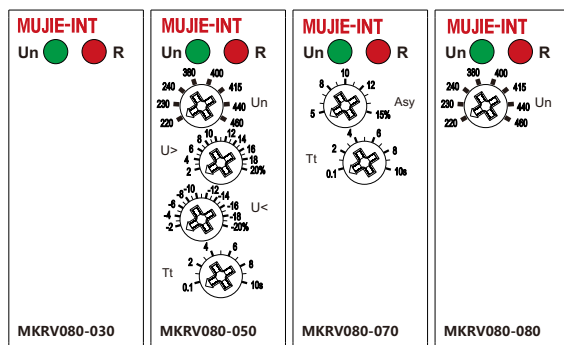
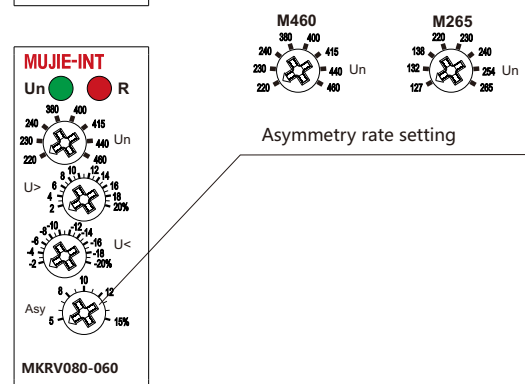
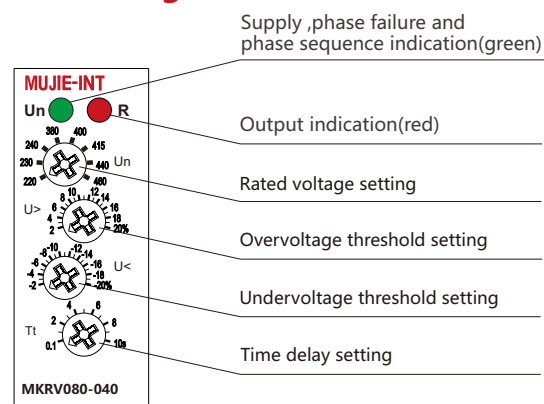


MUJIE-INT[®]

3-Phase voltage relay MKRV080-030...080 series



Panel Diagram



General

■ Applications

- Control for connection of moving equipment(site equipment, agricultural equipent,refrigerated trucks).
- Set 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).

■ 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

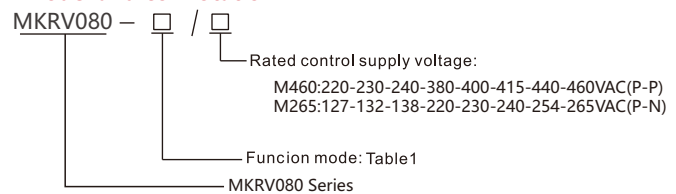


Table1

Function code	Over-voltage	Under-voltage	Asymmetry	Delay time	Phase sequence	Phase failure
03					●	●
04	2%...20%	-20%...-2%		0.1s...10s	●	●
05	2%...20%	-20%...-2%	8%	0.1s...10s	●	●
06	2%...20%	-20%...-2%	5%...15%	2s	●	●
07			5%...15%	0.1s...10s	●	●
08	15%	-15%	8%	2s	●	●

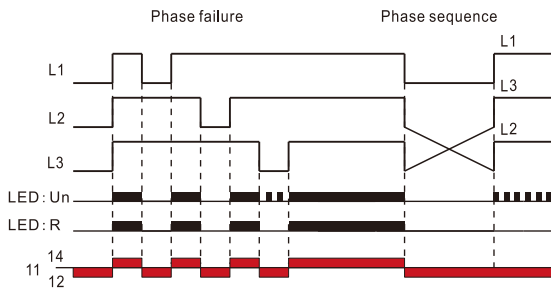
Note:●the function is available

Technical parameters

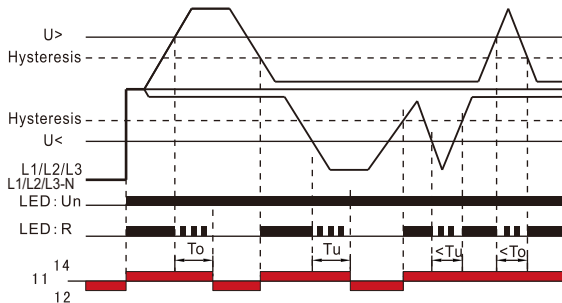
	M460	M265
Function	Monitoring 3-phase voltage	
Monitoring terminals	L1-L2-L3	L1-L2-L3-N
Supply terminals	L1-L2	L1-N
Voltage range	220-230-240-380-400-415-440-460(P-P)	127-132-138-220-230-240-254-265(P-N)
Rated supply frequency	45Hz-65Hz	
Measuring range	176V-552V	101V-318V
Threshold adjustment voltage	2%-20%of Un selected	
Adjustment of asymmetry threshold	5%-15%	
Hysteresis	2%	
Phase failure value	70% of Un selected	70% of Un selected
Time delay	Adjustable 0.1s-10s,10%	
Measurement error	≤1%	
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	1000ms	
Output	1×SPDT	
Current rating	10A/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

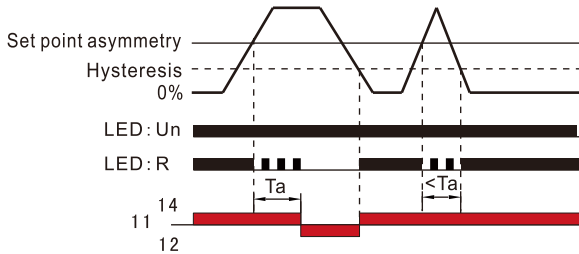
●Phase failure and phase equence function diagram



●Overvoltage and undervoltage function diagram



●Asymmetry function diagram



To: Overvoltage threshold tripping delay.
 Tu: Undervoltage threshold tripping delay.
 Ta: Asymmetry threshold tripping delay.

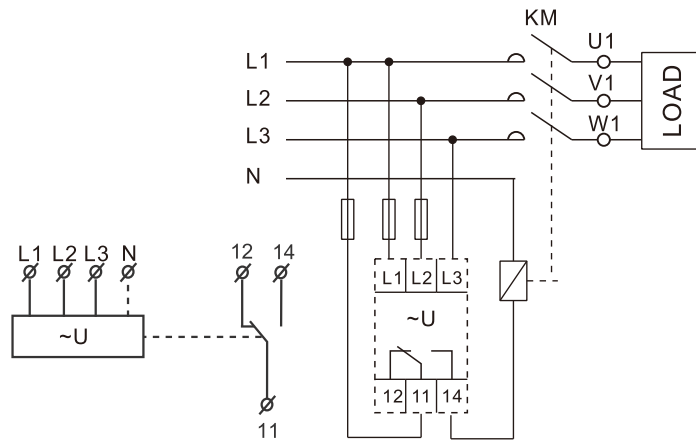
Operating temperature	-20°C to +55°C (-4°F to 131°F)
Storage temperature	-35°C to +75°C (-22°F to 158°F)
Mounting/DIN rail	Din rail EN/IEC 60715
Protection degree	IP40 for front panel/IP20 terminals
Operating position	any
Overvoltage category	III.
Pollution degree	2
Max.cable size(mm ²)	solid wire max.1×2.5or 2×1.5/with sleeve max.1×2.5(AWG12)
Tightening torque	0.4Nm
Dimensions	90×18×64mm
Weight	64g

Note:

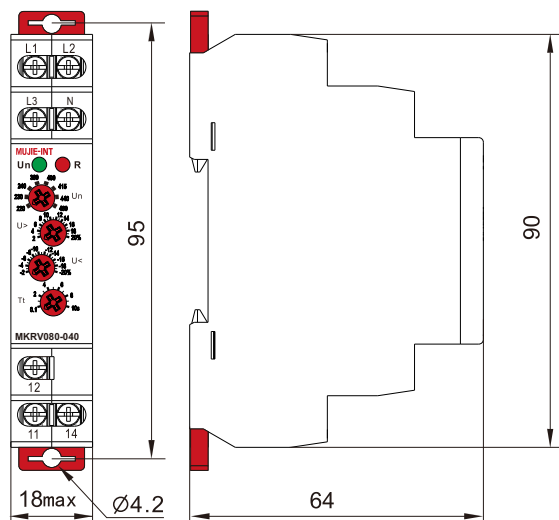
$$Asy = \frac{U_{max} - U_{min}}{U_{avr}} \times 100\% \quad U_{max} = \text{Max}(U_1, U_2, U_3)$$

$$U_{avr} = \frac{U_1 + U_2 + U_3}{3} \quad U_{min} = \text{Min}(U_1, U_2, U_3)$$

Wiring Diagram



Dimensions(mm)



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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.