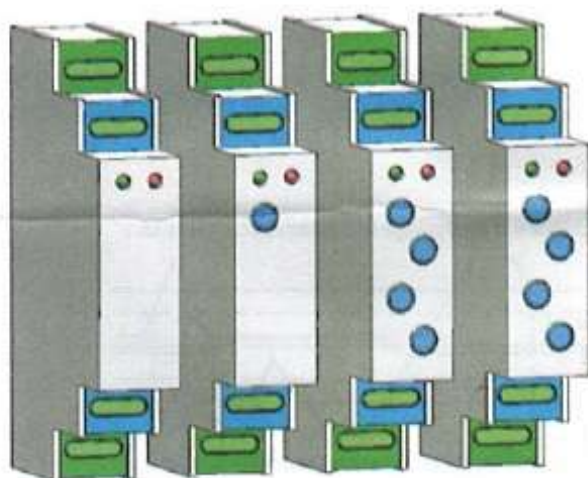
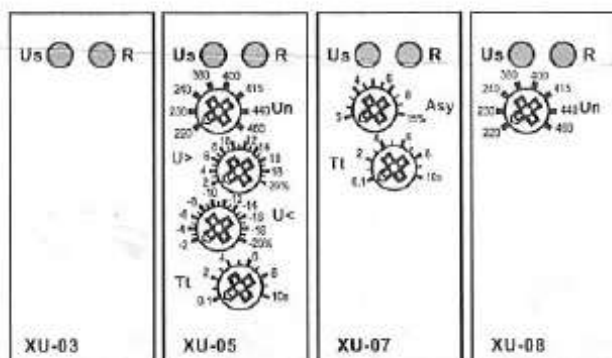
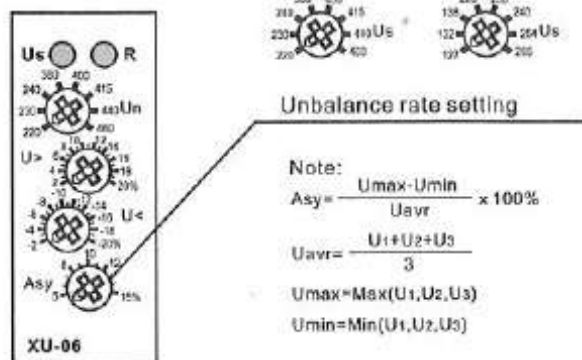
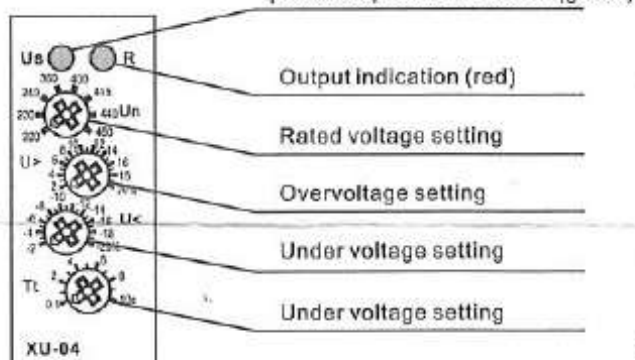


Phase voltage relay XU-03...08

operation instructions



Panel diagram



overview

■ Applications

- For mobile device connection control (on-site equipment, agricultural equipment, refrigerated trucks).
- Protect equipment from accidents caused by reverse operation.
- Normal/emergency power switch.
- Prevent phase failure of power loads.

■ characteristic

- Monitor self working voltage (true RMS measurement)
- 8 types of rated voltage adjustable, suitable for voltage in various regions around the world.
- Available in 3-phase 3-wire and 3-phase 4-wire specifications.
- Voltage measurement accuracy $\leq 1\%$.
- The working status of the relay is indicated by an LED indicator light.
- Ultra small volume, only 18mm wide, 35mm clamp rail installation.

■ Model and its meaning

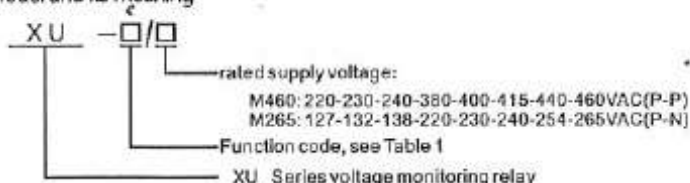


Table 1

Function code	Overvoltage	Under voltage	voltage unbalance	action delay	phase sequence protection	open phase protection
03	—	—	—	—	●	●
04	2%...20%	-20%...2%	—	0.2s...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: ● indicates having this function, — indicates not having this function.

Note: The two sets of outputs are represented by D.

Technical Parameter

	M460	M265
function	Monitoring L-L voltage (3-phase 3-wire system)	Monitoring L-L voltage (3-phase 4-wire system)
Monitoring terminal	L1-L2-L3	L1-L2-L3
power supply	L1-L2	L1-N
Rated working voltage selection	220-230-240-380-400-415-440-460(P-P)	127-132-138-220-230-240-254-265(P-N)
rated impulse withstand voltage	2.5kV	
rated insulation voltage	500V	
Measurement frequency range	45Hz-65Hz	
measuring range	176V-552V	101V-318V
Voltage threshold range	2% -20% of rated voltage	
Unbalance value threshold range	5% -15%	
Voltage fixed hysteresis rate	2%	
Phase failure voltage value	70% of rated voltage valueMin=165V	70% of rated voltage value
Action delay time	0.1s-10s adjustable	
Voltage measurement error	$\leq 1\%$	
Power on delay time	0.5s	
Knob setting accuracy	10%	
Reset time	1s	
Temperature waviness error	0.05%/°C, at=20°C	
output	— : Ith: 10A; AC-15: Ue/Ie: 250V/2.5A	
Minimum switching power	500mW	
Output relay indication	red LED	
mechanical life	1×10^7	
Electrical life (resistive load)	1×10^6	

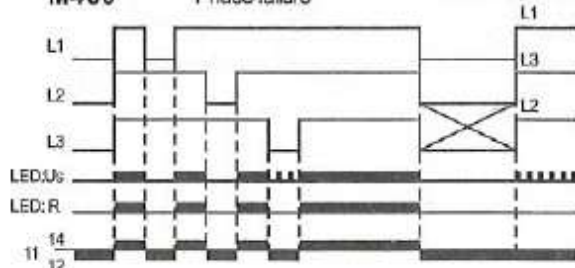
function diagram

● Functional diagram of phase failure and phase sequence protection (three-phase three wire)

M460

Phase failure

Phase sequence error

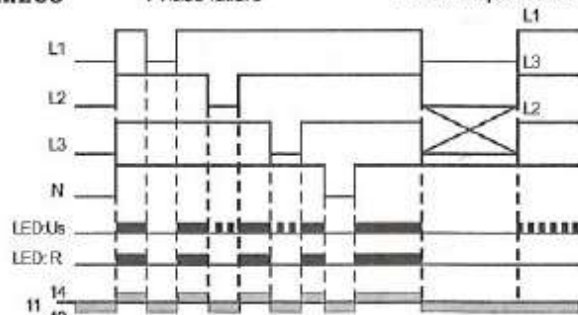


● Functional diagram of phase failure and phase sequence protection (three-phase four wire)

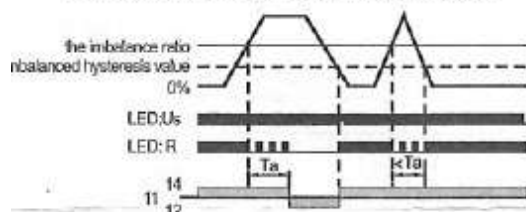
M265

Phase failure

Phase sequence error

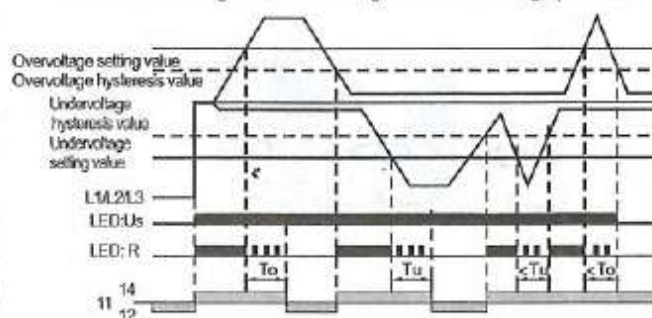


● Voltage imbalance protection function diagram



Ambient Temperature	-20°C~+55°C
Storage and transportation environment temperature	-35°C~+75°C
Installation method	35mm 卡轨安装
protection grade	IP20
Installation position	任意
Installation altitude	≤2000米
pollution degree	2
Wiring capability	1x2.5mm²或2x15mm² 0.8N·m
Overall dimensions	90mm x 18mm x 64mm
weight	61-66g
Compliant with standards	GB/T14048.5, IEC60947-5-1, EN 60255-1

● Functional diagram of overvoltage and undervoltage protection



To: Delay time of overvoltage action.

Tu: Undervoltage action delay time.

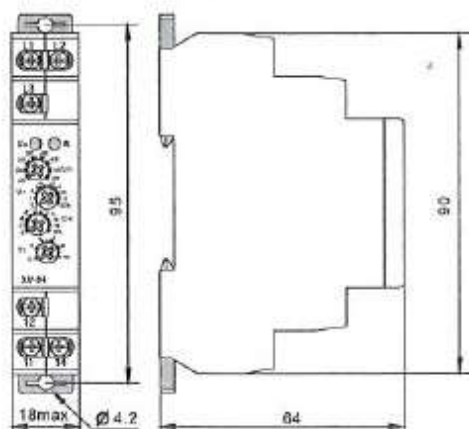
Ta: Unbalanced action delay time

Attention:

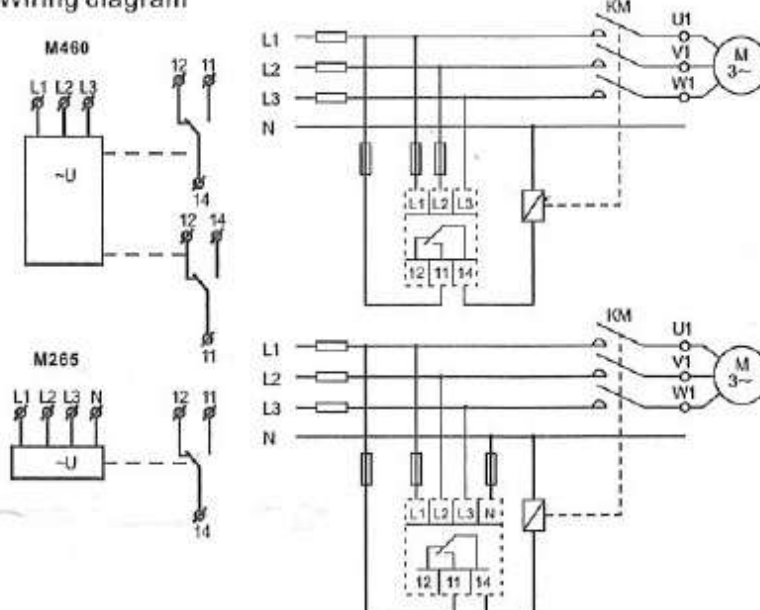
When a phase failure occurs in the power phase, the green light will not indicate. (M460 power supply: L1 and L2; M265 power supply: L1 and N)

If the rated voltage knob is changed during the product's power on operation, the green and red indicator lights will flash simultaneously, indicating an incorrect setting. The product maintains the originally set rated voltage for protection. When the rated voltage knob returns to the original set value, the indicator light returns to normal.

Appearance and dimensions (mm)



Wiring diagram



Electrical waste treatment

All electrical waste must comply with the WEEE directive.
Conduct recycling treatment.



pay attention to

The product should be installed by professional electrical personnel.
The product wiring must comply with relevant electrical safety standards.