MUJIE-INT®

3-Phase voltage relay MKR090-O2T series



General

- Voltage protection relay uses a high-speed andow-power processor as its core. When the powersupplyline has over-voltage,under-voltage,orphase failure, phase reverse, the relay will cut offthe circuit quickly and safely to avoid accidentscaused by abnormal voltage being sent to theterminal appliance. When the voltage returns to the normal value, the relay will turn on the circuitautomaticallyto ensure the normal operation of the terminal electrical appliances underunattended conditions.
- Cut off the line when Over & Under Voltage occursand automaticallyreset and connect the line afterreturning to normal without manual operation
- When theline appears transient or transient Over& Under Voltage, the protector does not malfunction



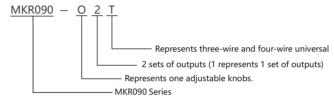
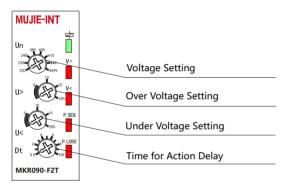


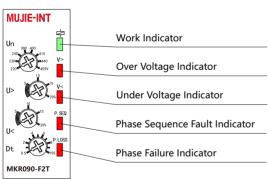
Table1

Function code	Over- voltage	Under- voltage	Delay time	Phase sequence	Phase failure	Asy
Z2T	15%	15%	3s	•	•	•
O2T	15%	15%	3s	•	•	•
T2T	0%20%	0%20%	3s	•	•	•
E2T	0%20%	0%20%	0.1s10s	•	•	•
F2T	0%20%	0%20%	0.1s10s	•	•	•
-	-	-				

Note: • the function is available

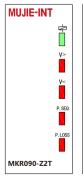
Panel Diagram



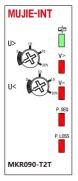


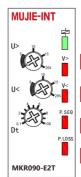
Technical parameters

ITEN NO.	SINGLE PHASE	3P3W		
Rated voltage	AC 110V,220V,230V,240V	AC 220V,240V,380V, 400V,415V,440V		
Frequency	50 or 60HZ			
Response time of relay	Delay on: 0,5s or 0,1-10s	Delay off: 3s or 0,1-10s		
Contact rating	3A/250VAC			
Reset time	0.2 Sec Max			
Ambient temp	-10°C-55°C			
Setting error	±10% MAX			
Repeat error	±2% MAX			





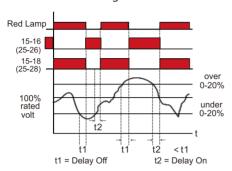




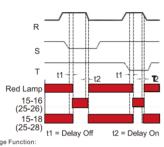


Functions Diagram

• Over& Under Voltage



• Asymmetric Voltage



Asymmetric Voltage Function:

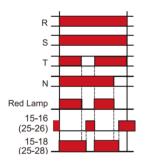
(The highest voltage of phase R,S,T)-(The lowest voltage of phase R,S,T)

(The highest voltage of phase R,S,T)

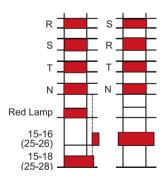
(The highest voltage of phase R,S,T)

Relay 15-18 Off Red Lamp Off

• Phase Failure



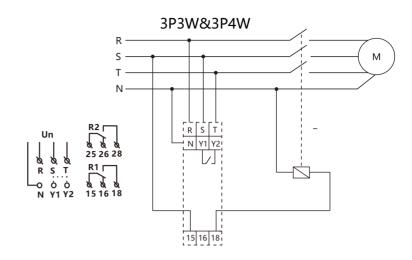
• Phase Sequence



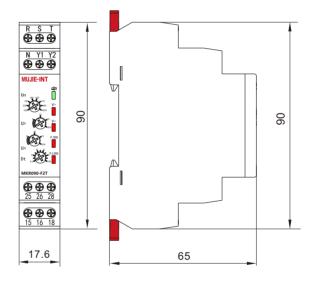
MUJIE-INT "

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

Wiring Diagram



Dimensions(mm)





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