

MU250 / 150



MU250 3-phase

Product Description

MU150 and MU250 are voltage relays that combine various protections and starting delay. MU150 is used for single-phase monitoring while MU250 is used for 3-phase monitoring.



MU150 Single-phase

Features

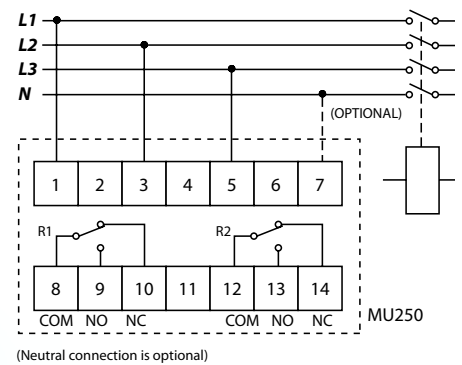
- Microprocessor based numerical relay
- Undervoltage
- Overvoltage
- Delay-on
- 2 voltage-free output contacts
- Voltage and frequency display

Features For MU250 only

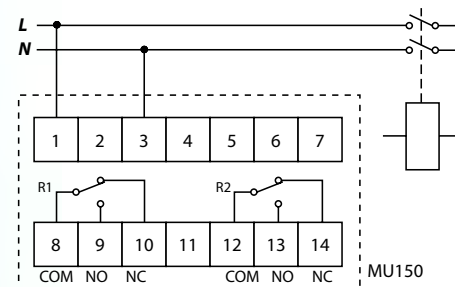
- 3-Phase
- Unbalance
- Phase loss
- Phase sequence
- With or without neutral connection
- Phase to phase or phase to neutral monitoring

TYPICAL APPLICATION DIAGRAMS

MU250



MU150



Technical Data

SETTING RANGES

Undervoltage	: 1% to 25%
Time delay for undervoltage	: 0.1s to 30s
Overvoltage	: 1% to 20%
Time delay for overvoltage	: 0.1s to 30s
Start time delay	: 0s to 999s

For MU250 only:

Unbalance	: 3% to 20%
Time delay for unbalance	: 0.1s to 30s
Phase loss	: Fixed time <0.1s
Phase sequence	: Fixed time <0.1s

POWER SUPPLY INPUT

Input voltage	: MU150: 220V(-25%) to 240V(+20%) AC (Phase-Neutral)
	: MU250: 380V(-25%) to 415V(+20%) AC (Phase-Phase)
Supply frequency	: 45Hz to 65Hz
Maximum power consumption	: MU250: 3VA
	: MU150: 2.5VA

CONTACTS

Contact arrangement	: Change-over
Contact rating	: 5A, 250V AC (cos φ=1)
Contact material	: Silver alloy
Expected electrical life	: 100,000 operations at rated current
Expected mechanical life	: 5 X 10 ⁶ operations

INDICATORS

Auxiliary supply	: Green LED indicator
Pickup indicator	: Red LED indicator
Trip	: 7-segment display and red LED indicators

MECHANICAL

Mounting	: Din rail mounted
Approximate weight	: MU150: 0.27kg
	: MU250: 0.31kg

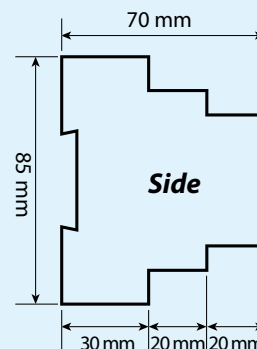
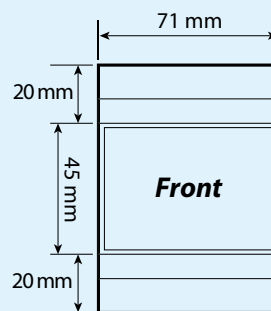
ACCURACY

Protection thresholds	: ± 3%
Time delay	: 0 to 0.5s, ± 15% with minimum 40ms
	: 0.6s and above, < ± 3%
Measurements	: ± 3%

ENVIRONMENTAL CONDITIONS

Temperature	: -5 C to +55 C
Humidity	: 56 days at 93% RH and 40 C non-condensing

CASE DIMENSIONS



Ordering Information

MODEL	DESCRIPTION
MU150-240V	Single-Phase, 220/230/240 V AC, 45-65 Hz power supply
MU250-415V	3-Phase, 380/400/415 V AC, 45-65 Hz power supply

