

Voltage Relay

www.itmikro.com





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.

Features

MU250

15

- Microprocessor based numerical relay
- Undervoltage
- Overvoltage
- Delay-on
- 2 voltage-free output contacts
- . Voltage and frequency display
- . ANSI Code : 27, 47, 59, 60

Features For MU 250 only

• 3-Phase

- Unbalance
- . Phase loss

.

- Phase sequence
- With or without neutral connection
- Phase to phase or phase to neutral monitoring

Technical Data

SETTING RANGES

Undervoltage	:1% to 25%
Time delay for undervoltage	e: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 Time delay for unbalance Phase loss Phase sequence

Supply frequency :3% to 20% :0.5s to 30s : Fixed time < 0.5s MU250 :Fixed time < 0.5s MU150

:380 V (-25%) to 415 V (+20%) :45 Hz to 65 Hz Maximum power consumption: :3VA :2.5VA

:100 V (-25%) to

120 V (+20%) AC

:220 V (-25%) to 240 V (+20%) AC

OUTPUT CONTACTS

POWER SUPPLY INPUT

Input voltage:

MU150-110V &

MU150-240V & MU250-220V

MU250-110V

MU250-415V

Rated voltage :250 V AC Contact rating :5 A Expected electrical life :100,000 operations at rated current Expected mechanical life: 5 x 10⁶ operations

INDICATORS

Auxiliary supply Pickup indicator Trip

: Green indicator : Red indicator : 7-segment display and red LED indicators

ACCURACY

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

ENVIRONMENTAL CONDITIONS

Temperature	: -10°C to 55°C
Humidity	: 5% to 95%,
	non-condensing

MECHANICAL

Mounting	: DIN rail
Dimension (mm)	: 71(w) x 85(h) x 70(d)
Approximate weight	: 0.4 kg

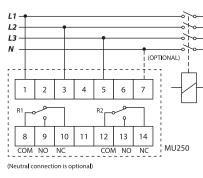
MU 250 / 150



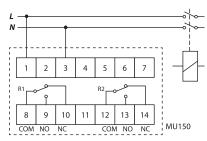
www.itmikro.com

Typical Application Diagrams

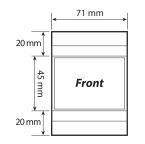
MU250

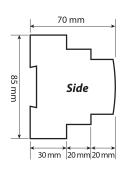






Case Dimensions





Ordering InformationMODELDESCRIPTIONMU150-110VSingle-Phase, 100/110/120 V AC,
45-65 Hz power supplyMU150-240VSingle-Phase, 220/230/240 V AC,
45-65 Hz power supplyMU250-110V3-phase, 100/110/120 V AC
45-65 Hz power supplyMU250-220V3-phase, 220/230/240 V AC
45-65 Hz power supplyMU250-220V3-phase, 220/230/240 V AC
45-65 Hz power supplyMU250-415V3-Phase, 380/400/415 V AC,
45-65 Hz power supply

MU 250 / 150