



# MU350

## Product Description

MU350 is 3-phase voltage relay that combines various protections and starting delay.

## Features

- Undervoltage
- Overvoltage
- Delay-on
- 2 voltage-free output contacts
- Voltage and frequency display
- 3-Phase
- Unbalance
- Phase loss
- Phase sequence
- With or without neutral connection
- Phase to phase or phase to neutral monitoring
- Programmable relay outputs
- ANSI Code : 27, 47, 59, 60

## Technical Data

### SETTING RANGES

Undervoltage	: Off, 1% to 25%
Time delay for undervoltage	: 0.1s to 30s
Overvoltage	: Off, 1% to 20%
Time delay for overvoltage	: 0.1s to 30s
Start time delay	: 0s to 999s
Unbalance	: Off, 3% to 20%
Time delay for unbalance	: 0.5s to 30s
Phase loss	: Fixed time <0.5s
Phase sequence	: Fixed time <0.5s

### AUXILIARY SUPPLY

MU350-415V : 380 V (-25%) to 415 V (+20%) AC  
 Supply frequency : 45 Hz to 65 Hz  
 Maximum power consumption: 3VA

### MEASURING INPUT

Line to line : 100 to 415 (+20%) VAC  
 Line to Neutral : 58 to 240 (+20%) VAC

### OUTPUT CONTACTS

Rated voltage	: 250 V AC
Contact rating	: 5 A
Expected electrical life	: 100,000 operations at rated current
Expected mechanical life	: 5 x 10 <sup>6</sup> operations

### INDICATORS

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

### ACCURACY

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

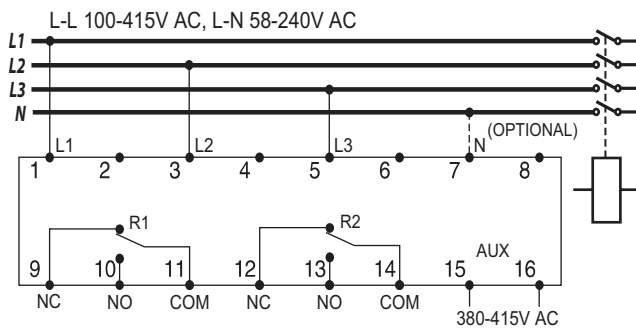
### ENVIRONMENTAL CONDITIONS

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

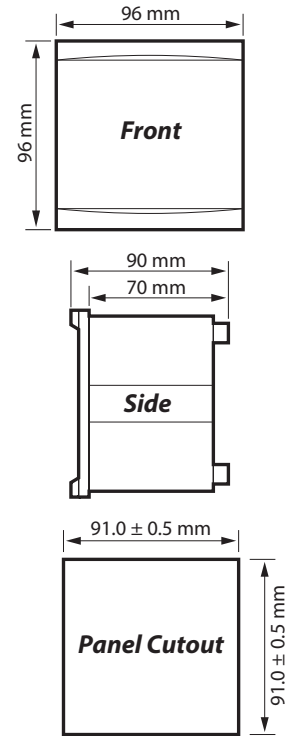
### MECHANICAL

Mounting	: Panel mounting
Dimension (mm)	: 96(w) x 96(h) x 90(d)
Approximate weight	: 0.31 kg

### Typical Application Diagrams



### Case Dimensions



### Ordering Information

MODEL	DESCRIPTION
MU350-415V	3-Phase, auxiliary voltage 380 ~ 415 V AC, 45-65 Hz