



TECHNICAL DATA

SETTING RANGES

Undervoltage	: 1% to 25%
Time delay for undervoltage	: 0.1s to 30s
Oversupply	: 1% to 20%
Time delay for oversupply	: 0.1s to 30s
Start time delay	: 0s to 999s
Unbalance	: 3% to 20%
Time delay for unbalance	: 0.1s to 30s
Phase loss	: Fixed time <0.1s
Phase sequence	: Fixed time <0.1s

INDICATORS

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

PRODUCT OVERVIEW

ME-VR-DD-1P and ME-VR-DD-3P are voltage relays that combine various protections and start-up delays.

ME-VR-DD-1P is used for single-phase monitoring while ME-VR-DD-3P is used for 3-phase monitoring.

FEATURES

- Din mount
- Microprocessor based numerical relay
- Undervoltage
- Overvoltage
- Start-up delay
- 2 voltage-free output contacts
- Voltage and frequency display
- ANSI Code : 27, 47, 59, 60
- 3-Phase
- Unbalance
- Phase loss
- Phase sequence
- With or without neutral connection
- Phase to phase or phase to neutral monitoring

ORDERING INFORMATION

PART NUMBER

ME-VR-DD-1P
ME-VR-DD-3P

DESCRIPTION

Single-Phase, 220~240V AC, 45-65Hz power supply
3-Phase, 380~415V AC, 45-65Hz power supply

POWER SUPPLY INPUT

Input Voltage:
ME-VR-DD-1P : 220V(-25%) to 240V(+20%) AC(Phase-Neutral)
ME-VR-DD-3P : 380V(-25%) to 415V(+20%) AC(Phase-Phase)

Supply frequency : 45Hz to 65Hz

Maximum power consumption:
ME-VR-DD-1P : 2.5VA
ME-VR-DD-3P : 3VA

ACCURACY

Protection thresholds : $\pm 3\%$
Time delay : 0 to 0.5s, $\pm 15\%$ with minimum 40ms
Measurements : 0.6s and above, $< \pm 3\%$
Phase sequence : $\pm 3\%$

ENVIRONMENTAL CONDITIONS

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

OUTPUT CONTACTS

Rated voltage : 250 V AC
Contact rating : 5 A
Expected electrical life : 100,000 operations at rated current
Expected mechanical life : 5×10^6 operations

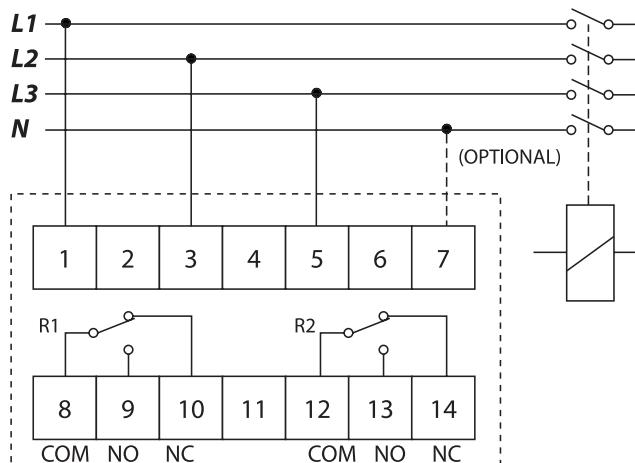
MECHANICAL

Mounting : DIN rail
Dimension (mm) : 71(w) x 85(h) x 70(d)
Approximate weight : 0.4 kg
Enclosure protection : IP20 at the panel

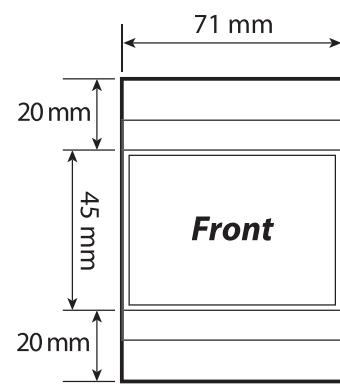
TYPICAL APPLICATIONS DIAGRAM

CASE DIMENSIONS

ME-VR-DD-3P



(Neutral connection is optional)



ME-VR-DD-1P

