

Digital Voltage Monitoring relay 3 Ph + Neutral

ARD-VMR-31N



Technical data

Models	ARD-VMR-31N	
Supply terminals	L3,N	
Supply voltage	~	AC 125~300V/50Hz
U> setting value	~	OFF-221~300V
U< setting value	150V~219V-OFF	
Asymmetry setting	OFF-5%~20%	
U> trip delay	0.1~20s	
U< trip delay	0.1~20s	
Asymmetry trip delay	0.1~20s	
Start-up delay	0.1~30s	
Reset delay	0.1~30s	
Voltage hysteresis	6V	5V
Asymmetry hysteresis	2%	
Trip delay for phase failure	≤0.2s	
Voltage measurement error	≤1%	
Delay error	±5%+0.1s	
Rated insulation voltage	415V	
Output contacts	1C/O, 1NO+1NC	
Current rating	8A/250V AC1	
Mechanical life	10 ⁶	
Electrical life	10 ⁵	
Protection degree	IP20	
Pollution degree	3	
Altitude	≤2000m	
Operating temperature	-20°C~55°C	
Permissible relative humidity	≤50% at 40°C(without condensation)	
Storage temperature	-30°C~70°C	
Wire size	0.5mm ² ~2.5mm ²	
Mounting	TH35 Rail(EN60715)	

Default setting parameters

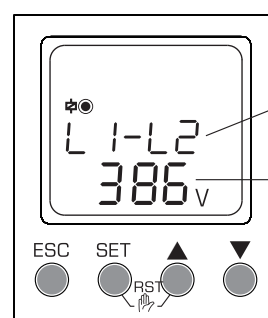
Technical parameters	ARD-VMR-31N
Overvoltage trip value	253V
Overvoltage trip delay	2s
Undervoltage trip value	187V
Undervoltage trip delay	2s
Asymmetry trip value	8%
Asymmetry trip delay	2s
Phase sequence protective function	ON
Start-up delay	0.3s
Reset delay	0.3s
Auto-reset	ON

Features

- Microcontroller based
- LCD indication for operating voltage and status
- Overvoltage, undervoltage, phase failure, asymmetry and phase sequence protection
- 45Hz~65Hz wide measuring frequency
- Supply voltage measurement (True RMS)
- Menu setting for protection parameters
- Test and manual reset by keys
- N phase failure protection for 3phase 4wire system
- 2 module DIN rail housing

Front-face panel and legend of symbol

Panel



Display L1-L2 if work normally; display faults symbol when faults occurred.

Operating voltage value

Symbol legend

● — Relay ON	OV — Over voltage
○ — Relay OFF	UV — Under voltage
SET — Parameters setting	ASY — Asymmetry
Error — Fault	PHSEQ — Phase sequence
start — Start-up delay	PHFAIL — Phase failure

Keys

ESC	○ Exit configuration menu	SET	○ Enter configuration menu
	○ Back to last menu		○ Confirm settings
▲	○ Select menu	▼	○ Select menu
	○ Digit -		○ Digit +
SET	▲		
	○ Manual reset		

