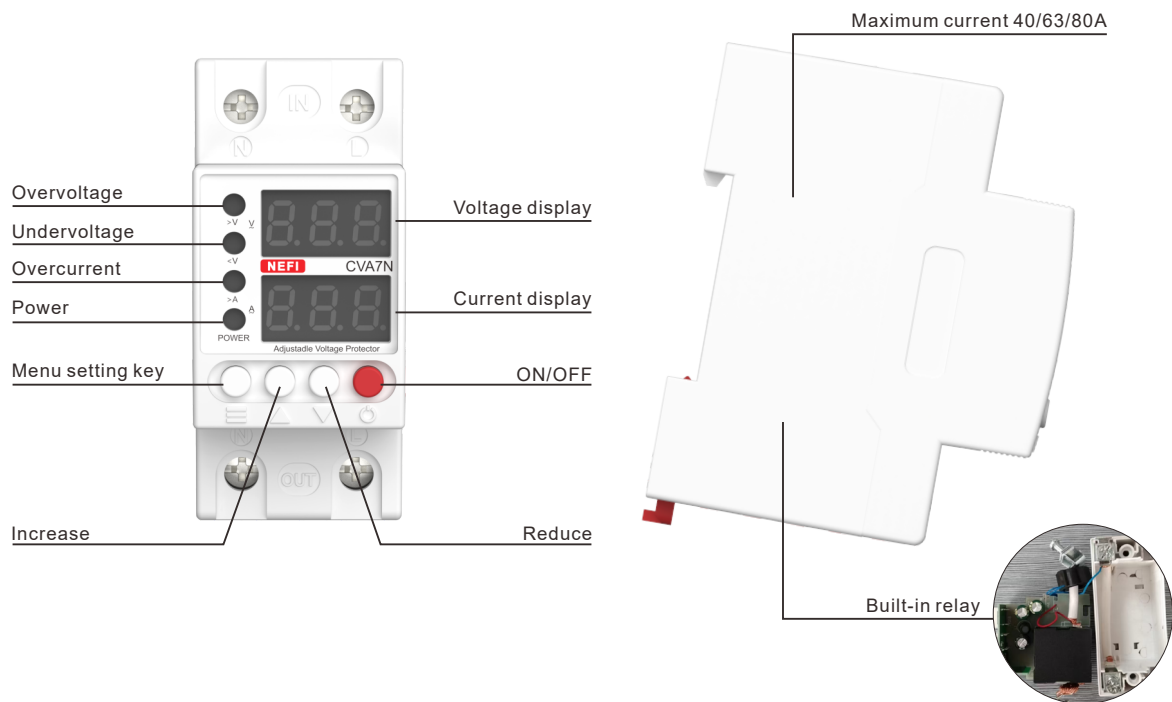


CVA7N Overvoltage and Undervoltage Protector



General

CVA7N voltage and current display relay is a microprocessor-based device for single-phase AC systems. It monitors voltage in real time and provides protection against undervoltage, overvoltage, and overcurrent. The load is switched by electromagnetic relay, and parameters such as voltage and delay can be set via front buttons. Settings are stored in non-volatile memory. Supports aluminum and copper wire connections..

Feature

Voltage and current display relay used in administrative, industrial and residential buildings and has the function of protecting single-phase lines:

- Undervoltage protection
- Overvoltage protection
- Overcurrent protection
- Working under voltmeter mode
- Adjustable voltage and delay settings

Selection

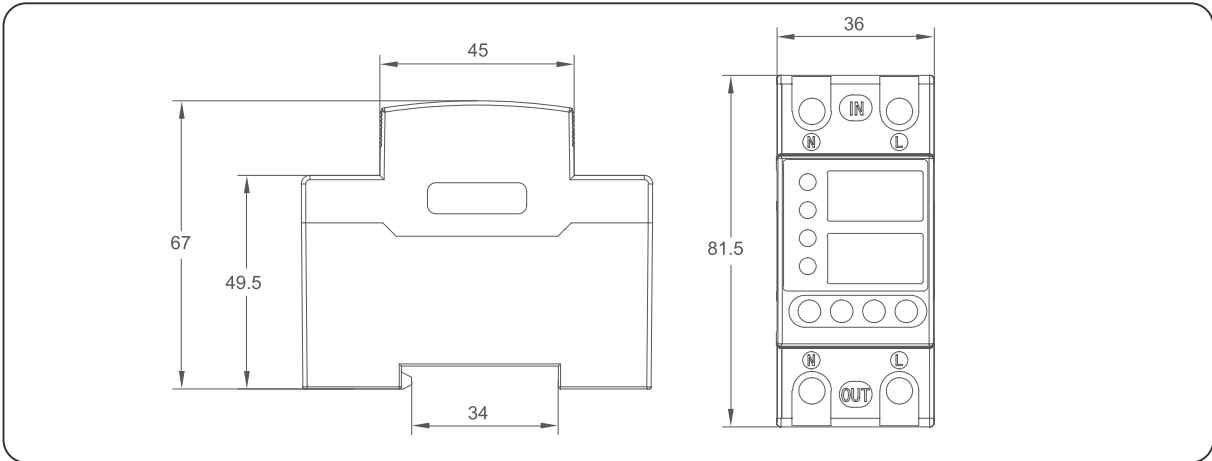
CVA7N	1	63A	230V
↓	↓	↓	↓
Model	Phase Number Type	Rated Current	Voltage
VA:Voltage and Current KWH:Voltage, Current, and Kilowatt-hours	1 Single-phase (default without notes) 3 Three-phase	40A 63A 80A	Single-phase: 230V Three-phase: 380V

Technical Parameters

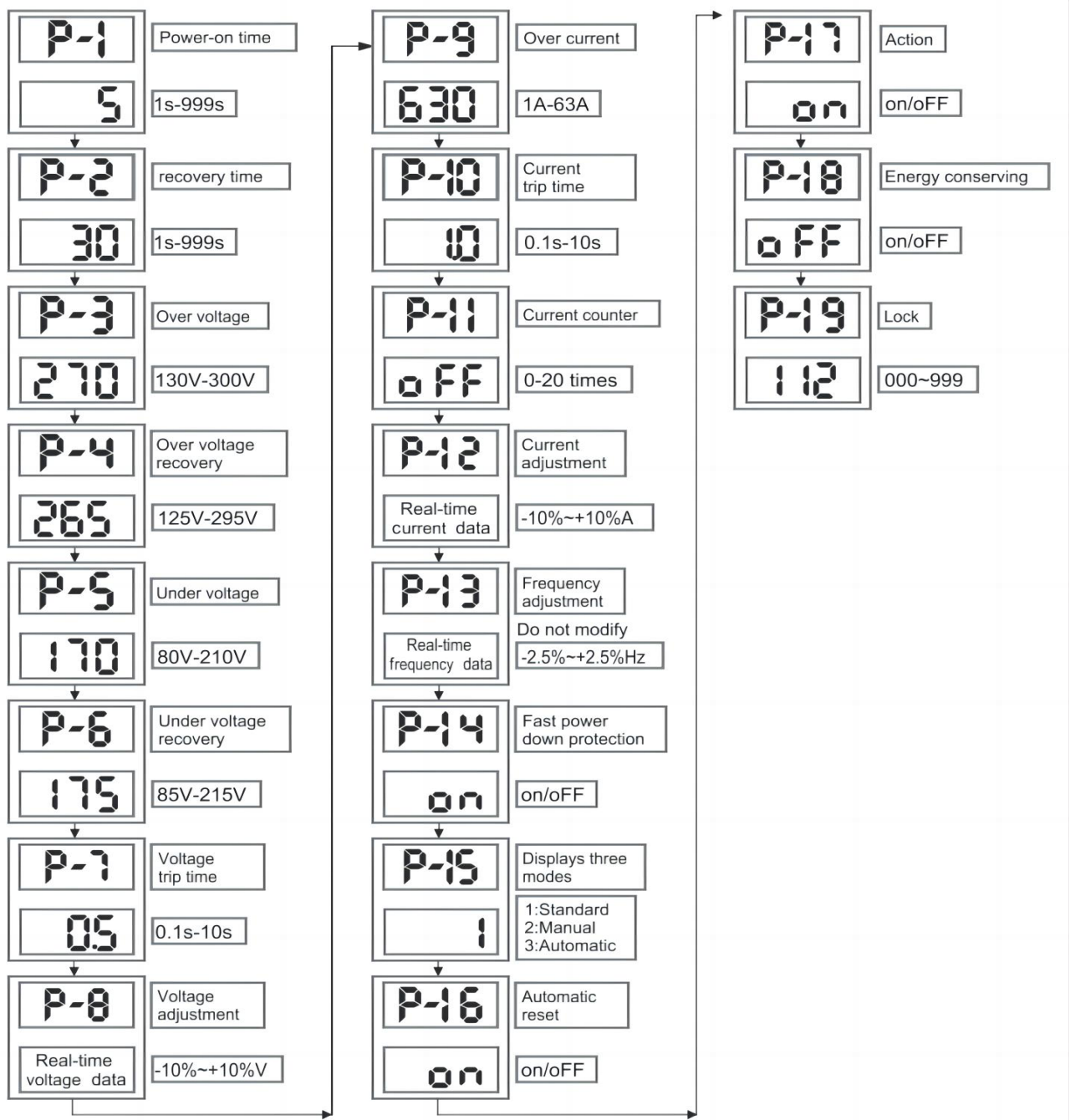
Model	CVA7N
Input voltage	AC 140-300V
Over-voltage protection value	130-300V (default 270V)
Under-voltage protection value	80-210V (default 170V)
Over-current protection value	40A:1-40A (default 40A)
	63A:1-63A (default 63A)
Recovery delay time	1-500s (default 30s)
Continuous overcurrent faults times	1-20 times (default OFF)
Wiring	Over-entering down-out
Power-on delay time	1-500s (default 10s)
Over-voltage recovery value	125-295V (default 265V)
Under-voltage recovery value	85-215V (default 175V)
Power consumption	2W
Boundary dimention	86×38×68mm
Action time	0.1-30s (default 1s)
Electrical and mechanical life	2100000 cycles
Operating condition	
Ambient temperature	-20°C~+55°C
Relative humidity	≤20% at 40°C; ≤90% at 20°C
Altitude	≤2000m
Environmental conditions	no harmful gases and vapors no conductive or explosive dust no severe mechanical vibration

- In case of overvoltage, undervoltage, or overcurrent faults on a single-phase line, the CVA7N will cut off the circuit and automatically reconnect after a delay once the power returns to normal.
- For transient overvoltage, the device prevents false triggering and protects the load.
- If the line has unstable voltage or poor connection, the device will disconnect to prevent malfunction.
- When the line reaches peak fault voltage, the device itself remains protected from damage.

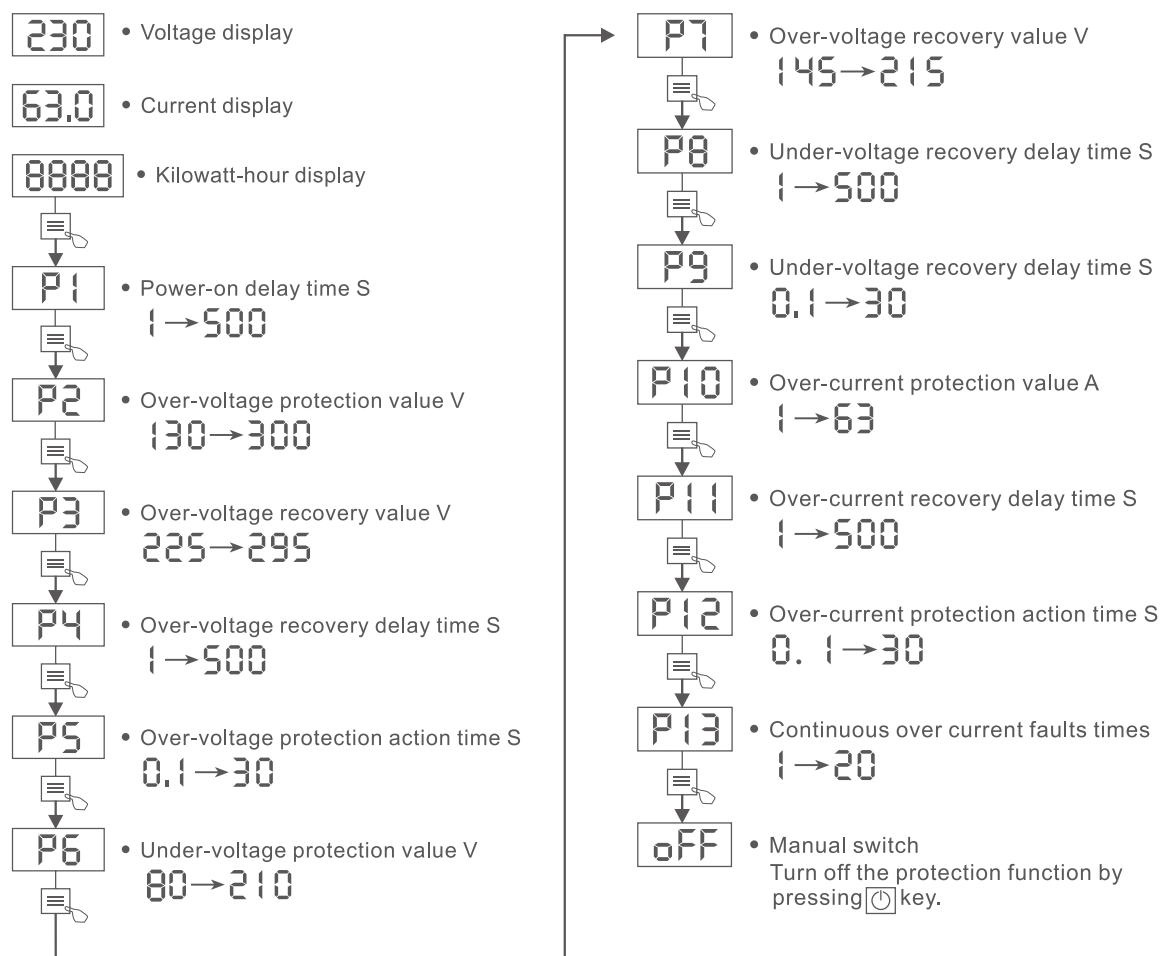
Dimensions and Installation Sizes(mm)



Settings CVA7N



Settings CVA7N-KWH



* Change the setting value by pressing keys

Wiring Diagram

