

Digital Power Factor Regulator NV-6s/8s/14s



features



- True RMS Measurement
- Displacement Power Factor (Cos Φ) & True Power Factor (PF) Info
- LED Indication for Individual Step
- Auto / Manual Operation
- Automatic Detection of C.T. Polarity
- Automatic C/K Detection and Rated Individual Secondary Step Value
- Automatic or Preset Switching Programs
- Operation Frequency according to Network Frequency
- Minimum Operation @ < 1% Load
- No Voltage Release Function
- Secondary Current (I) / Voltage (V) / Frequency (Hz) Info
- Secondary Active Power (W) / Secondary Reactive Power (Var) Info
- THD Monitoring for Voltage and Current
- Individual Harmonic Spectrum Info up to 15th order for Voltage and Current
- Capacitors Utilization Monitoring for Utilization
- Hour Run and Switching Count
- Programmable Over Voltage & THD-V Alarm
- Dedicated Signal Alarm Output for:
 - Under/ Over Compensate
 - Under/ Over Voltage
 - Overload, thd-V Limit High, Frequency Out of Range & C.T. Polarity Error
- Dedicated Exhaust Fan Control
- Software Lock to Prevent Unauthorized Setting
- Complies with:
 - IEC-61000-4-2/4-4/4-5/255-5:1 Standards
 - Built-in RS-485 MODBUS RTU isolated communication

technical data

- Aux Power Supply**
 - AC range : 100~275 VAC, 45~65 Hz or 330~450 VAC, 45~65 Hz
 - Consumption : < 3 VA
- Power Measurement**
 - Accuracy (W, Var, Cos Φ , PF) : $\pm 1.0\%$
- Current Measurement**
 - AC Input range : 0.01 ~ 6.50 A
 - Accuracy : $\pm 1.0\%$
 - CT range : $\cdot/5A$
 - Burden : < 0.1 VA at 5A
- Voltage Measurement**
 - AC Input range : according to Aux Power Supply
 - Accuracy : $\pm 1.0\%$
- Frequency Measurement**
 - Range : 45 ~ 65 Hz
 - Accuracy : $\pm 0.1\%$
- Display / LEDs Indication**
 - 7-Segment LED Display (3 + 1 digit)
 - Individual Steps, x1000, A, PF, V, Hz, W, Var, thd, nth Harmonic, Auto, Alarm, Manual, Ind., Cap., Aux Fan
- Mechanical**
 - Output Relay (Individual Steps / Alarm / Fan) Rating : SPST 7A, 250 VAC
 - Expected Electrical Life : 100,000 operations at rated current
 - Expected Mechanical Life : 5×10^6 operations
 - No voltage release : < 40ms
 - Operating Temp. : $-5^{\circ}C \sim +55^{\circ}C$
 - Humidity : 56 days at 93%RH, 40 $^{\circ}C$ non-condensing
 - IP Rating : IP54 (front panel)
 - Installation : Panel flush mount
 - Weight : 560 g

parameter setting

- C/K Value** : Auto or 0.01 ~ 0.80 (step of 0.01)
- Target Cos Φ** : 0.85 (Ind.) ~ 0.90 (Cap.) (step of 0.01)
- Switching Program** : Auto or P-0 ~ P-7
- Switching Interval** : (t-on) : 1s ~ 250s (step of 1s)
(t-off) : 1s ~ 250s (step of 1s)
- Reconnection Inhibit** : OFF or 5s ~ 900s (step of 5s)
- V> (Over Voltage)** : OFF or 100 V ~ 260 V (step of 1 V)
- thd-V > (%)** : OFF or 3, 4, 5, 6, 7, 8, 10%

programmable switching Program

Selection of preset or automatic switching program

program sequence

Auto	Automatic decision by device
P-0	Linear
P-1	1 : 1 : 1 : 1 : 1
P-2	1 : 2 : 2 : 2 : 2
P-3	1 : 2 : 4 : 4 : 4
P-4	1 : 1 : 2 : 2 : 2
P-5	1 : 1 : 2 : 2 : 4
P-6	1 : 1 : 1 : 2 : 2
P-7	1 : 2 : 4 : 8 : 8

