VTEKE®

SAMPLE EDITION

Power Factor Correction — Sample edition

Category catalog · 2026 — built from the product data VTEKE maintain for the website, to show how the catalog downloads. The official catalog will replace it.

2	1	2026
Products	Category	Edition



Category catalog · 2026

Power Factor Correction

2 products · Power Factor Controllers

Power Factor Controllers



REPRESENTATIVE IMAGE

PFC-07

PFC-07 Power Factor Controller 7 teps

The VTEKE PFC-07 is a 7-step automatic power factor controller designed for reactive power compensation in three-phase electrical systems. It automatically controls capacitor steps according to the reactive power requirements of the installation, helping maintain the required power factor.

KEY FEATURES

- 7-step automatic reactive power compensation
- Automatic current transformer test
- 100 mA current sensitivity
- 3 × 20 mm LED display
- Level and status LED indicators
- 5 A / 250 V AC resistive-load relay contacts
- Panel-mounted design

SPECIFICATIONS

COMPENSATION & CONTROL	
Number of Steps	7 Steps
Current Sensitivity	100 mA
Current Transformer Test	Automatic
ELECTRICAL CHARACTERISTICS	
Operating Voltage	160–260 V AC
Operating Power	<10 VA
Current Range	80 mA–5.5 A
OUTPUT CHARACTERISTICS	
Relay Contact Rating	5 A / 250 V AC, Resistive Load
DISPLAY & MECHANICAL	
Display	3 × 20 mm Display and LEDs
Panel Cut-Out	139 × 139 mm
Connection Type	Terminal Connection
Cable Cross-Section	1.5 mm²
Weight	<900 g
ENVIRONMENTAL	
Operating Temperature	-20°C to +55°C
Operating Altitude	<2000 m



REPRESENTATIVE IMAGE

PFC-12S

PFC-12S Power Factor Controller 12 Steps

The VTEKE PFC-12S is a 12-step automatic power factor controller designed for reactive power compensation in electrical installations. It continuously monitors electrical parameters and automatically controls capacitor steps to maintain the required power factor.

KEY FEATURES

- 12-step automatic reactive power compensation
- 7 compensation programs with manual compensation option
- Automatic step measurement
- Adjustable step drive, release and discharge times
- Adjustable voltage and current harmonic alarm values
- Adjustable over- and under-compensation alarm values
- Voltage, harmonic voltage/current, over- and under-compensation alarm output
- Automatic fan output
- Voltage and current monitoring
- Active, reactive and apparent power monitoring
- THD-I and THD-V monitoring
- cos ϕ and power factor monitoring
- Capacitive/inductive ratio monitoring
- Step value monitoring
- Voltage and current harmonics up to the 15th harmonic
- Panel-mounted design

SPECIFICATIONS

COMPENSATION & CONTROL	
Number of Steps	12 Steps
Compensation Programs	7 Programs + Manual Compensation
Automatic Step Measurement	Yes
Step Drive / Release / Discharge Times	Adjustable
Over / Under Compensation Alarm Values	Adjustable
Fan Output	Automatic
MEASUREMENT & MONITORING	
Voltage / Current / Frequency	Monitored
Active / Reactive / Apparent Power	Monitored
cos ϕ / Power Factor	Monitored
THD-V / THD-I	Monitored
Capacitive / Inductive Ratios	Monitored
Step Values	Monitored
Voltage Harmonics	Up to 15th harmonic
Current Harmonics	Up to 15th harmonic
Voltage / Current / Cosine Accuracy	±1%
Active Energy Accuracy	±2%
Reactive Energy Accuracy	±2%
ELECTRICAL CHARACTERISTICS	
Operating Voltage	100–300 V AC
Operating Frequency	50/60 Hz
Operating Power	<10 VA
Voltage Measuring Range	10–300 V
Input Current	10 mA–5.5 A
Current Transformer Measuring Range	5/5 A–10,000/5 A
Cosine Measuring Range	0 to 1

OUTPUTS & ALARMS	
Step Outputs	3 A / 250 V AC, Resistive Load
Fan Output	3 A / 250 V AC, Resistive Load
Alarm Output	3 A / 250 V AC, Resistive Load
Alarm Functions	Voltage, Harmonic Voltage/Current, Over- and Under-Compensation
Harmonic Alarm Values	Adjustable
MECHANICAL	
Panel Cut-Out	140 × 140 mm
Connection Type	Plug-in Terminal Connection
Cable Cross-Section	1.5 mm²; 2.5 mm² for CT & voltage connections
Mounting	Front panel mounting
Weight	<900 g
Protection Degree	IP41 Front Panel / IP20 Body
ENVIRONMENTAL	
Operating Temperature	-20°C to +55°C
Working Altitude	<2000 m