



PhaseCap

Components for Low-Voltage
Power Factor Correction



<http://www.epcos.com>



PhaseCap[®], PhaseCap[®]HD

Power capacitors for low-voltage power factor correction

Applications:

- Power factor correction equipment (fixed and automatic)
- Tuned and detuned capacitor banks
- Harmonic filters

Features:

Voltage: 230, 400, 415, 440, 480, 525, 690 V

Output: 5 ... 60 kvar, 1/3 phase, 50/60 Hz

Life cycle: 100 000 hours

Customer benefits:

Costs

- Reduction of component costs
- 50 % reduction of mounting and connection time
- Reduced costs due to very long life cycle (100 000 h)

Electrical

- High over-current loading (up to $> 2 \cdot I_n$)
- Ultra-high inrush current withstand capability due to "wave cut" and heavy edge ($200 \times I_n$)

Safety

- Dry technology (protection gas)
- Excellent self-healing due to winding technique with long-term approval
- Minimized passive and active fire risk

Environment

- Easy disposal, environmentally friendly



Further information:

Product Profile [PhaseCap Capacitors for Power Factor Correction Systems](#)

Product Profile [PhaseCap HD Capacitors for Power Factor Correction Systems](#)

Product Catalog [Power Factor Correction](#)



WindCap®

Power capacitors for wind turbines and filtering of harmonics in modern power electronics

Applications:

- Wind turbine generator applications
- Industrial applications involving heavily distorted networks
- Harmonic filtering in power electronics

Features:

Voltage: 690, 800 V

Output: 5 ... 33 kvar, 3 phase, 50/60 Hz

Life cycle: 130 000 hours

Customer benefits:

Costs

- Reduced life cycle costs thanks to ultra-long life cycle (130 000 h)
- Reduced mounting and connection costs

Electrical

- Extremely low losses
- Ultra-high pulse current withstand capability (up to 300 x In)

Mechanical & maintenance

- Any mounting position, maintenance-free

Safety

- Dry design, SH type (self-healing function)
- Overpressure disconnecter (tear-off fuse)
- Non-flammable

Environment

- Easy disposal, non-polluting (dry technology)



Further information:

Product Profile [WindCap Capacitors for Wind Turbine Applications](#)

Product Catalog [Power Factor Correction](#)



PhiCap™

Power capacitors for low-voltage
power factor correction

Applications:

- Fixed power factor correction
- Automatic power factor correction equipment

Features:

Voltage: 230, 400, 415, 440, 480, 525

Output: 0.5 ... 30 kvar, 1/3 phase, 50/60 Hz

Life cycle: 80 000 hours

Customer benefits:

Costs

- Very cost-effective design

Electrical

- Good inrush-current withstand capability due to heavy edge ($100 \times I_n$)
- Corona-free, high capacitance stability

Mechanical & maintenance

- Any mounting position, maintenance-free

Safety

- Dry technology, SH type
- Over-pressure tear-off fuse

Environment

- Easy disposal
- Environmentally friendly
- PCB-free



Further information:

Product Profile [PhiCap Capacitors for Power Factor Correction](#)

Product Catalog [Power Factor Correction](#)



Key components

for low-voltage power factor correction

Application:

- Low-voltage power factor correction equipment

1. Power Factor Controller, Prophi

Features

Supply, measuring voltage: 400 V, 50/60 Hz

Output stages: 3, 6, 12 steps

Customer benefits

- Display of V, I, f, Q, P, S, cos-phi
- Display of all odd harmonics from 1–19 current and voltage values
- Display of total turn-on duration for each capacitor stage
- Current transformer input for .. /1A and .. /5A
- Seven-fold programmable alarm output



2. Capacitor contactors, with pre-loading resistors

Features

Voltage: 400 ... 690 V

Output: 12.5 ... 82 kvar, 50/60 Hz

Customer benefits

- Excellent damping of inrush-current
- Avoids voltage sags
- Increased mean operating life of the PFC equipment



Further information:

Product Catalog [Power Factor Correction](#)

3. Anti-resonance filter circuit reactors

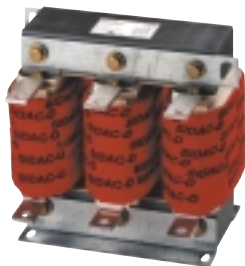
Features

Voltage: 400 V*

Output: 5 ... 100 kvar, 50/60 Hz

Detuning: 5.67%, 7%, 14%

* Other voltages upon request



Customer benefits

- High harmonic stress resistance
- Very low losses
- High linearity avoids "choke tilt"
- Low noise
- Long operating life
- With temperature protection (NC aux. contact)

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Internet: www.epcos.com/sales/e_sales.htm

Literature:

Product Profiles 2000

- [PhaseCap Capacitors for PFC Systems](#)
(German/English, Ordering No. EPC:26003-7400)
- [PhaseCap HD Capacitors for PFC Systems](#)
(German/English, Ordering No. EPC:26002-7400)
- [PhiCap Capacitors for Power Factor Correction](#)
(English, Ordering No. EPC:60001-7600)
- [WindCap Capacitors for Wind Turbine Applications](#)
(English, Ordering No. EPC:26001-7600)

Product Catalog 2000

- [Power Factor Correction](#)
(German, Ordering No. EPC:26004,
English, Ordering No. EPC:26004-7600)

Published by EPCOS AG · Marketing Communications

Edition 09/2000

Ordering No. EPC:26007-7600
Printed in Germany