



INNOVATIVE POWER CAPACITORS



Fourfold Safety

Lead-free as per RoHS

Solder-free Connections

Maximum Reliability

THE **NEW** FRAKO POWER CAPACITORS

PATENTED SAFETY & RELIABILITY

Ideal for demanding applications:

- Power factor correction systems
- Motor/generator compensation
- Passive harmonic filters
- Sine wave filters
- Controlled filters

The first solder-free contact between connecting wires and capacitor windings

The new FRAKO power capacitors use contact rings to join the connecting wires to the capacitor windings without needing solder. These patented rings are stamped from a special alloy and are formed with a number of pointed teeth that press into the zinc end-face contact layers on the windings to make electrical contact. The connecting wires are spot-welded to the contact rings. The advantage of this solder-free design: the risk of damaging the capacitor windings due to overheating during soldering of connection wires is completely excluded.

The quality of the winding connection is significantly increased, and the reliability of the overpressure disconnecter that protects against excessive internal pressure is improved by its being securely spot-welded in place. Result: a permanently secure connection—completely lead-free.

4 safety features ensure uninterrupted operation

The reliability of power capacitors is crucially important for the problem-free operation of power factor correction systems and passive filters. FRAKO's measures to ensure this are now fourfold:

SAFETY
FEATURE

1

Self-healing polypropylene film

Its self-healing property ensures that the dielectric film automatically isolates any puncturing that may occur.

SAFETY
FEATURE

2

Solder-free connections

The innovative contact ring patented by FRAKO totally eliminates the potential risk of damaging the winding as in conventional capacitor manufacture.

SAFETY
FEATURE

3

Overpressure disconnecter against excessive pressure

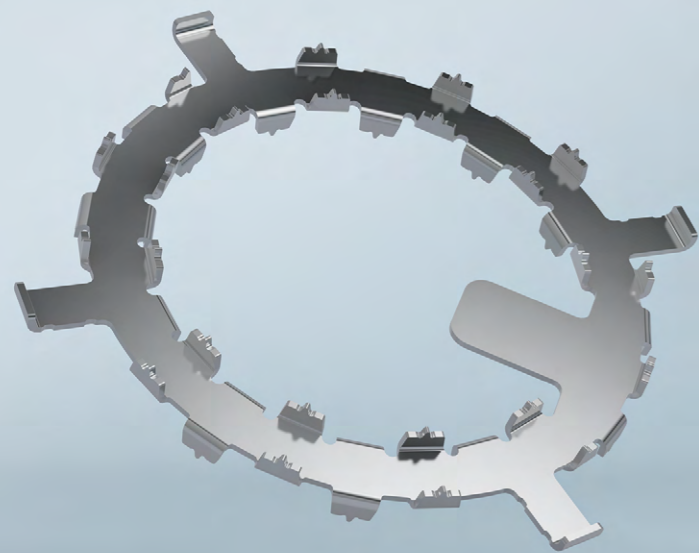
The overpressure disconnection system is designed to disconnect the capacitor safely from the power supply if excessive internal pressure develops due to overloading or at the end of its service life.

SAFETY
FEATURE

4

Segmented metallization

The segmented film is a valuable supplement to the self-healing property and the overpressure disconnecter. If several punctures occur in a larger area of metallized film, the amount of energy involved could be too much for the self-healing action alone to cope with. In this case, the segmented film provides an EXTRA fail-safe function, since the severely overloaded segment is completely isolated from the power supply.



World-class safety and reliability



The innovative design and patented technology of FRAKO power capacitors ensure a maximum degree of safety and reliability in ongoing operation. Genuine FRAKO power capacitors can be identified with certainty at first sight – thanks to the Holospot® label, which cannot be faked.

The right hardware for the job

FRAKO power capacitors are available in 4 versions:

- Basic
- Standard
- Premium
- Heavy Duty

Nominal power: 1 - 30 kvar

Nominal voltage: 240 - 800 Volt



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