

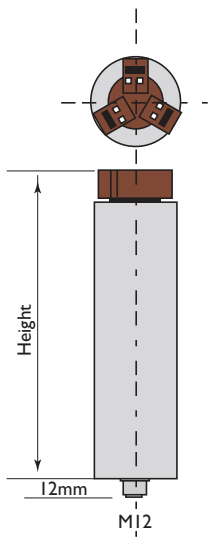
- Highly reliable capacitors with self-healing properties
- Strong terminals with spring tension connections
- Low losses, 0.5 Watts per kVAr
- Safety protection system
- Low weight and volume
- Non toxic impregnants



PFC Engineering's metallized polypropylene capacitors have been thoroughly tried and tested. Many thousands of these units are installed worldwide and have proven to be extremely reliable. With their characteristic low weight and volume, these capacitors allow Power Factor Correction installations to be built up to any requirement.

These capacitors feature an all metallic construction within a cylindrical aluminium case. Advanced safety features include; self healing qualities, an integral overpressure disconnect device and non toxic impregnated polypropylene capacitor elements. The unique construction of this product prevents leakage even if the casing is punctured.

PFC Metalized Polypropylene Capacitors. Rated Voltage 415 Vac, 50 Hz

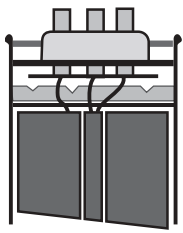


Output kVAr	Ratings		Part number (Order Code)	Dimensional Details		
	Current Amps	Capacitance µF		Diameter mm	Height mm	Weight kg
2.7	3.75	3 x 16.6	LKT 4.3-525-D52	60	178	0.53
3.7	5.15	3 x 22.8	LKT 8.0-610-D52	60	253	0.6
5.4	7.52	3 x 33.1	LKT 8.6-525-D52	60	253	0.69
8.1	11.27	3 x 49.7	LKT 10.8-480-D52	60	253	1.0
10.8	15	3 x 66.3	LKT 12.1-440-D52	70	253	1.2
13.4	18.64	3 x 82.8	LKT 15.1-440-D52	70	253	1.4
21.5*	30	3 x 132.6	LKT 24.2-440-D52	85	348	2.1
25.1*	34.9	3 x 154.6	LKT 28.2-440-D52	85	388	2.4

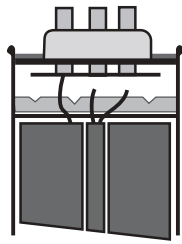
Other ratings are available upon request

Safety features

The dielectric is self healing. In the case of a breakdown caused, for example, by voltage overload, the self healing effect takes place. If the self healing process does not operate (e.g. because of voltage, current or thermal overload) the cover plate, which is designed as an overload valve, is raised and ruptures the internal connecting wires to the coils, so that the capacitor is separated from the mains.



Detail of LKT capacitor connection during normal operation conditions



LKT capacitor disconnection activated by over-pressure

Life Expectancy

Extreme purity of the material used prevents a deterioration of the loss factor and thereby a reduction of the dielectric strength and the current load capacity. The very low number of failures in the field prove an exceptionally high life expectancy. Field reports received over the last 10 years point to a failure rate of less than 1% in 15 years of operation.

Application

These capacitors allow Power Factor Correction installations to be constructed for any requirement and meet the regulations:

VDE 0560 part 41,
BS EN 61921,

BS EN 60831-1,
BS EN 60831-2.

Manufacturing Standards

Capacitors are manufactured under:
ISO 9001 - Management System Certification
ISO 14001 - Environmental Management System Certification

Mechanical Construction

Cylindrical Aluminium case, dielectric consisting of a vacuum impregnated metallized polypropylene foil. Dry filled with a flame inhibiting, stabilised mineral filler.

Rating

Rated at 415 Volts 3 phase 50 Hertz. 2.7 to 26.9 kVAr. Provided to suit requirements.

Design

Cylindrical aluminium case, with M12 mounting stud. Three-phase capacitors with integrated discharge resistor. Tension spring connection terminal for quick, secure wiring.

Power Losses

Approx. 0.05% (0.5 Watt/kVAr) measured at the connecting terminal including discharge resistors.
Approx. 0.02% (0.2 Watt/kVAr) measured at the capacitor coils.

Discharging

According to IEC 831, every power capacitor must have a discharge device which guarantees a discharge to 75 Volts DC within three minutes.
PFC's capacitors have integrated discharge resistors which guarantee a discharge to 50 Volts DC within one minute.

Permissible Overloads

For our standard 400 / 415 Volt capacitor products.

Voltage:	440V	permanently
	484V	8 hours per day
	506V	30 minutes per day
	528V	5 minutes per day
	572V	1 minute per day
Current:	2x In	continuously @ (400V)
	*1.8x In	continuously @ (400V)

Other products available upon request.

Permissible Temperature Range

Ambient -40 to +60°C

Our policy is one of continuous improvement and we reserve the right to alter any details of design from that shown in this leaflet without prior notice.