

POWER FACTOR CORRECTION CAPACITORS Type LKT



Features

- Over current up to 2.2 times rated current
- Inrush current up to 300 times rated current
- Self-healing type, segmented film technology plus overpressure disconnector
- Environment-friendly, dry type
- CO₂ emission reduction
- Saves energy costs

It's all about saving your money!

General Remarks

PFC Engineering's LKT type Power Factor Correction Capacitors are produced with unique advanced technology and incorporate a triple safety feature. The LKT capacitor is the first to successfully combine self-healing capacitor film with segmented film and overpressure disconnection. This manufacturing technique guarantees significantly improved operational reliability of capacitors for power factor correction. We reserve the right to make alterations which are based on newly acquired knowledge or which contribute to an improvement in our products.

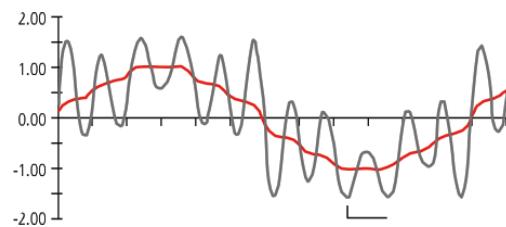
Technical Remarks

For the operation of Power Factor Correction Capacitors three aspects are of utmost importance:

- High overload capacity
- Long life expectancy
- Safe reaction at overload

Overload Capacity

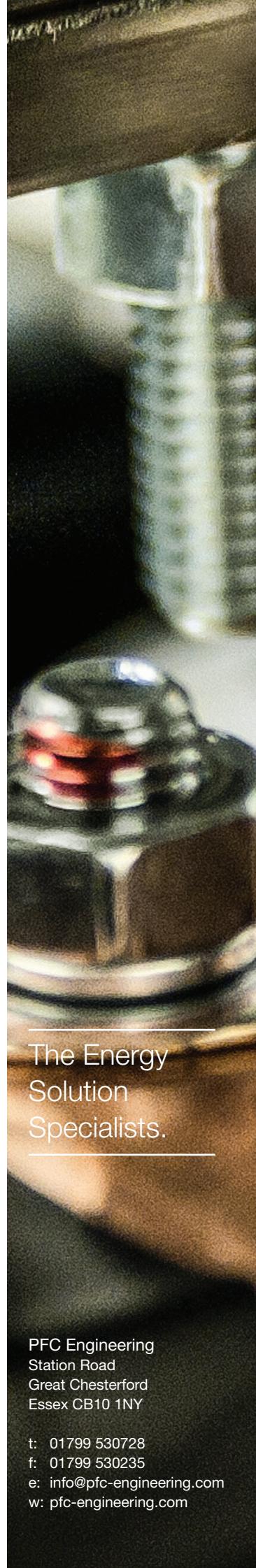
As power systems are becoming more polluted with harmonics it is particularly important for capacitors to have sufficient current overload capabilities to be safely installed in such environments



If, for example, the 11th harmonic is present with 8% of the rated network voltage, the RMS value of the rated voltage is only increased by some 0.3%, but the current in the capacitors will exceed its rated value by 33%. It becomes clear that the ability of a capacitor to withstand excessive current is significantly greater than the ability to withstand excessive voltage.

Therefore LKT capacitors are designed as follows:

- Max. overcurrent up to 2.2 times - **for the Heavy Duty version: up to 2.7 times** - rated current
- Max inrush current up to 300 times - **for the Heavy Duty version: up to 450 times** - rated current



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Life Expectancy

The use of thoroughly tested material as well as careful processing ensures quality and a long life expectancy of the products. Our capacitors are produced according to specifications, which greatly surpass the requirements of EN 60831-1/2. Quality tests following each single manufacturing step, verify an outstanding manufacturing quality. Combined with a unique capacitor manufacturing technology, achieves world leading durability.

For example, the consistently low power loss over many years is achieved by using a special mineral filler and stabilizer which can avoid permanent partial discharges within the dielectric. Vacuum drying and temperature storage over several days avoid oxygen inclusion, which would accelerate the aging process of a capacitor. This extra effort in production results in longer life expectancy.

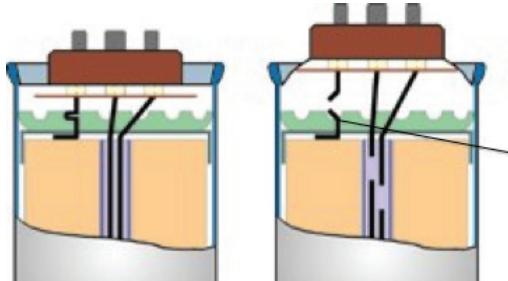
Safety Features

LKT Power Factor Correction Capacitors operate with triple safety:

- Self-healing at over-voltage
- Reliable in operation because of segmented film
- An overpressure disconnection system isolates the capacitors from the mains at the end of their lifetime or at excessive overload.



Self-healing segmented capacitor film



The principle of the overpressure disconnector

To verify the correct functioning of the integrated safety systems, regular capacitor samples are drawn from the production line. In this way constant, outstanding quality can be achieved and maintained.

Voltage Load Capacity

LKT type Power Factor Correction Capacitors have a load capacity in accordance with EN 60831-1 and -2 as well as IEC 831-1 and -2:

Rated voltage [V] 50 Hz	300	400	440	480	525	615
Over-voltage [V]						
8 hours daily	330	440	484	528	578	677
30 min. daily	345	460	506	552	604	707
5 min. daily	360	480	528	576	630	738
1 min. daily	390	520	572	624	683	800

Application

PFC Engineering offer four series of Power Factor Correction Capacitors: Basic, Standard, Premium and **NEW! Heavy Duty**.

We recommend Basic Capacitors for networks with low harmonic content and normal ambient temperature. Standard Capacitors are recommended for networks with higher harmonic levels and/or high ambient temperature. Premium Capacitors should be used for demanding networks (i.e. networks with very high harmonic levels and/or very high ambient temperature). Standard or Premium capacitors are used in our own assembled systems. Heavy Duty Capacitors are recommended for extremely demanding network and ambient conditions.

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All four series of capacitors are manufactured the Management System Certificate ISO 9001 and the Environmental Management System ISO 14001.

Mechanical Construction

Cylindrical aluminium case with M12 ×12 mounting stud, low loss self-healing dielectric made from segmented metallized polypropylene film. Filled with a non-toxic, flame inhibiting mineral filler with adhesive stabilizer and integrated mechanical overpressure disconnector. Permanently connected external discharge resistors at the terminals. The connecting terminal, which is available as an accessory, protects against direct contact of the fast-on terminals and meets the protection class IP 20.

Design

Our LKT Power Factor Correction Capacitors are available as three-phase capacitors in four versions: Basic, Standard, Premium and NEW! Heavy Duty. The single- phase capacitors are available as Standard version only.

Rating

0.8 - 37.2 kVAr; 230 - 800 V; 50 or 60 Hz (other Voltages on request)

Capacitance and Rating Tolerance

± 5%

Power Loss

Approx. 0.5 Watt / kVAr measured at the connecting terminal (including discharge resistors).

Approx. 0.2 Watt / kVAr dielectric power loss measured at the capacitor coils.

Temperature Class

Up to - 40 °C; + 65 °C depending on design

Discharging

According to EN 60831, every power capacitor must have a discharge device which guarantees a discharge to 75 V within three minutes. LKT capacitors have integrated discharge resistors which guarantee a discharge to 50 V within one minute.

Accessories for LKT type Power Factor Correction Capacitors

All capacitors can be equipped with a patented tension spring connection terminal. This ensures fast, perfect and permanent electrical contact of the connecting cables. All capacitors up to 70 mm diameter can also be equipped with a plastic and rubber terminal boot.

Article-No.	Description	Type
31-08000	Plug-in type connecting terminal for capacitors with Ø 60 and Ø 70 mm, 3-phase	AKD 25/3
31-08002	Plug-in type connecting terminal for capacitors with Ø 60 and Ø 70 mm, single-phase	AKD 25/2
31-08003	Plug-in type connecting terminal for capacitors with Ø 85 mm, 3-phase	AKD 30/3
69-00352	Plastic caps for LKT with Ø 60 mm	LKT 60
69-00350	Plastic caps for LKT with Ø 70 mm	LKT 70
69-00353	Rubber sleeve	LKT

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Technical Data

Technical Data	Basic Capacitor	Standard Capacitor	Premium Capacitor	Heavy Duty Capacitor
			Operated with DL-specification	Operated with DP-specification*
Type	LKT...-DB	LKT...-DP/EP	LKT...-DL	LKT...-DL
Rated reactive power	1.66...36 kVAr	0.8...37.2 kVAr	1.4...24 kVAr	1.4...29 kVAr
Rated voltage	230...525 V	230...800 V	230...525 V	230...615 V
Rated frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Max. Overcurrent (permanently)	$1.5 \times I$ (at rated voltage, 50 Hz)	$1.8 \times I$ (at rated voltage, 50 Hz)	$2.2 \times I$ (at rated voltage, 50 Hz)	$2.0 \times I$ (at rated voltage, 50 Hz)
Max. Inrush current	$200 \times I$ (at rated voltage, 50Hz)	$250 \times I$ (at rated voltage, 50Hz)	$300 \times I$ (at rated voltage, 50Hz)	$300 \times I$ (at rated voltage, 50Hz)
Temperature class	-25°C / D	-40 / +60°C continuous	-40 / +65°C continuous	-40 / +65°C continuous
Min./ max. temperature	-25°C / +55°C	-40°C / +60°C	-40°C / +65°C	-40°C / +65°C
Max. case temperature	70°C	75°C	78°C	75°C
Dielectric power loss	0.2 W/kVAr	0.2 W/kVAr	0.2 W/kVAr	0.2 W/kVAr
Test voltage terminal / terminal	$2.15 \times U$ for 2 s $1.85 \times U$ for 18 s	$2.15 \times U$ for 2 s $1.85 \times U$ for 18 s	$2.15 \times U$ for 2 s $1.85 \times U$ for 18 s	$2.15 \times U$ for 2 sec. $1.85 \times U$ for 18 sec.
Test voltage terminal / case	3,900 V, 2 s	3,900 V, 2 s	3,900 V, 2 s	3,900 V, 2 s
Isolation level	3/8 kV	3/8 kV	3/8 kV	3/8 kV
Mean life expectancy	100,000 h.	130,000 h.	170,000 h.	130,000 h.
Max. humidity	95%	95%	95%	95%
Max. altitude	4,000 m	4,000 m	4,000 m	4,000 m
Number of annual switching operations	20,000	40,000	60,000	60,000
Discharging level in 60 s	≤ 50 V	≤ 50 V	≤ 50 V	≤ 50 V
Recommended for	Networks with low harmonic content and normal ambient temperature	Networks with higher harmonic levels and/or high ambient temperature	Demanding networks (i.e. networks with very high harmonic levels and/or very high ambient temperature)	Networks with higher harmonic levels and/or high ambient temperature
				Extreme demanding network- and ambient conditions

Generally, DL-type capacitors can also be operated at higher voltages with the DP-type specification.
Please note that the DP values in the chart are marked with *.

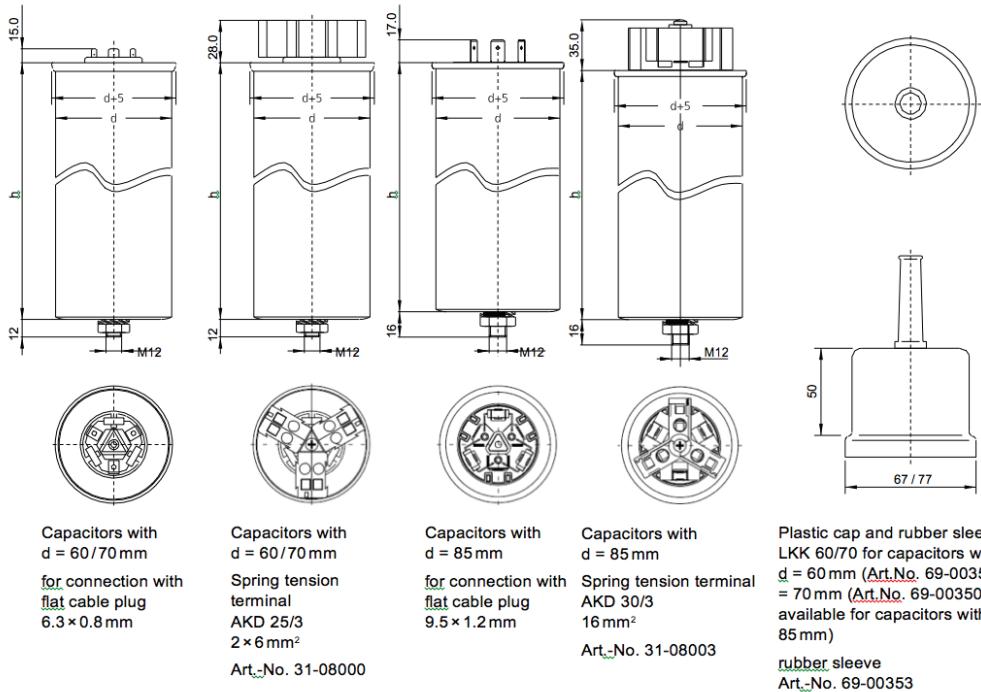
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Temperature class	admissible ambient temperature		
	maximum	mean over 24 h	highest mean over 1 year
D	55°C	45°C	35°C

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Dimensions



Basic Capacitors 50Hz

Capacitor Type	Dimensions mm	Article-No.	Rated Reactive Power in kVAr at Rated Voltage 50Hz								
			230V	250V	300V	400V	415V	440V	460V	480V	525V
Three-phase capacitors											
LKT 5-400-DB	60 × 150	31-10414	1.66	2.0	2.8	5.0					
LKT 6.25-400-DB	60 × 150	31-10400	2.1	2.4	3.5	6.25					
LKT 7.5-400-DB	60 × 150	31-10415	2.5	2.9	4.2	7.5					
LKT 10-400-DB	60 × 225	31-10416	3.33	3.9	5.6	10.0					
LKT 12.5-400-DB	60 × 225	31-10401	4.17	4.9	7.0	12.5					
LKT 15-400-DB	70 × 225	31-10417	5.0	5.9	8.4	15.0					
LKT 20-400-DB	85 × 215	31-10418	6.66	7.8	11.3	20.0					
LKT 25-400-DB	85 × 278	31-10402	8.33	9.8	14.1	25.0					
LKT 30-400-DB	85 × 320	31-10403	9.9	11.7	16.9	30.0					
LKT 6.25-440-DB	60 × 150	31-10404	1.7	2.0	2.9	5.2	5.6	6.25			
LKT 10-440-DB	60 × 225	31-10412	2.7	3.2	4.7	8.33	8.9	10.0			
LKT 12.5-440-DB	60 × 225	31-10405	3.4	4.0	5.8	10.3	11.1	12.5			
LKT 15-440-DB	70 × 225	31-10406	4.1	4.8	7.0	12.4	13.3	15.0			
LKT 20-440-DB	85 × 278	31-10413	5.5	6.5	9.3	16.5	17.8	20.0			
LKT 25-440-DB	85 × 278	31-10407	6.8	8.1	11.6	20.7	22.2	25.0			
LKT 30-440-DB	85 × 278	31-10408	8.2	9.7	14.0	24.8	26.7	30.0			
LKT 6.25-525-DB	60 × 225	31-10409			3.6	3.9	4.4	4.8	5.2	6.25	
LKT 12.5-525-DB	70 × 225	31-10410			7.3	7.8	8.8	9.6	10.4	12.5	
LKT 15-525-DB	70 × 225	31-10419			8.7	9.4	10.5	11.5	12.5	15.0	
LKT 17.2-525-DB	70 × 225	31-10434			10.0	10.8	12.1	13.2	14.4	17.2	
LKT 20-525-DB	70 × 265	31-10420			11.6	12.5	14.1	15.4	16.7	20.0	
LKT 25-525-DB	85 × 278	31-10411			14.5	15.6	17.6	19.2	20.9	25.0	

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Basic Capacitors 60Hz

Capacitor Type	Dimensions mm	Article-No.	Rated Reactive Power in kVAr at Rated Voltage 60Hz								
			230V	250V	300V	400V	415V	440V	460V	480V	525V
Three-phase capacitors											
LKT 5-400-DB	60 × 150	31-10414	2.0	2.3	3.33	6.0					
LKT 6.25-400-DB	60 × 150	31-10400	2.5	2.9	4.2	7.5					
LKT 7.5-400-DB	60 × 150	31-10415	3.0	3.5	5.1	9.0					
LKT 10-400-DB	60 × 225	31-10416	4.0	4.7	6.8	12.0					
LKT 12.5-400-DB	60 × 225	31-10401	5.0	5.9	8.4	15.0					
LKT 15-400-DB	70 × 225	31-10417	6.0	7.0	10.1	18.0					
LKT 20-400-DB	85 × 215	31-10418	7.9	9.4	13.5	24.0					
LKT 25-400-DB	85 × 278	31-10402	9.9	11.7	16.9	30.0					
LKT 30-400-DB	85 × 320	31-10403	11.9	14.1	20.3	36.0					
LKT 6.25-440-DB	60 × 150	31-10404	2.0	2.4	3.5	6.2	6.7	7.5			
LKT 10-440-DB	60 × 225	31-10412	3.33	3.9	5.6	9.9	10.7	12.0			
LKT 12.5-440-DB	60 × 225	31-10405	4.1	4.8	7.0	12.4	13.3	15.0			
LKT 15-440-DB	70 × 225	31-10406	4.9	5.8	8.4	14.9	16.0	18.0			
LKT 20-440-DB	85 × 278	31-10413	6.66	7.8	11.2	19.8	21.4	24.0			
LKT 25-440-DB	85 × 278	31-10407	8.2	9.7	14.0	24.8	26.7	30.0			
LKT 30-440-DB	85 × 278	31-10408	9.8	11.6	16.7	29.8	32.0	36.0			
LKT 6.25-525-DB	60 × 225	31-10409				4.4	4.7	5.3	5.8	6.3	7.5
LKT 12.5-525-DB	70 × 225	31-10410				8.7	9.4	10.5	11.5	12.5	15.0
LKT 15-525-DB	70 × 225	31-10419				10.5	11.3	12.6	13.8	15.1	18.0
LKT 17.2-525-DB	70 × 225	31-10434				12.0	12.9	14.5	15.9	17.3	20.6
LKT 20-525-DB	70 × 265	31-10420				13.9	15.0	16.9	18.4	20.1	24.0
LKT 25-525-DB	85 × 278	31-10411				17.4	18.8	21.1	23.0	25.1	30.0

Standard Capacitors (three-phase) 50Hz

Capacitor Type	Dimensions mm	Article-No.	Rated Reactive Power in kVAr at Rated Voltage 50Hz								
			230V	250V	300V	400V	415V	440V	460V	480V	525V
Three-phase capacitors											
LKT 7.1-300-DP	60 × 225	31-10523	4.17	4.9	7.1						
LKT 14.2-300-DP	70 × 265	31-10524	8.33	9.9	14.2						
LKT 21.3-300-DP	85 × 278	31-10525	12.5	14.8	21.3						
LKT 5-400-DP	60 × 150	31-10500	1.66	2.0	2.8	5.0					
LKT 10-400-DP	60 × 225	31-10501	3.33	3.9	5.6	10.0					
LKT 12.5-400-DP	70 × 225	31-10502	4.17	4.9	7.0	12.5					
LKT 15-400-DP	70 × 265	31-10503	5.0	5.9	8.4	15.0					
LKT 20-400-DP	85 × 278	31-10504	6.66	7.8	11.3	20.0					
LKT 25-400-DP	85 × 278	31-10505	8.33	9.8	14.1	25.0					
LKT 3.8-440-DP	60 × 150	31-10534	1.0	1.22	1.8	3.1	3.4	3.8			
LKT 10-440-DP	60 × 225	31-10508	2.7	3.2	4.7	8.33	8.9	10.0			
LKT 12.5-440-DP	70 × 225	31-10507	3.4	4.0	5.8	10.3	11.1	12.5			
LKT 15-440-DP	70 × 225	31-10506	4.1	4.8	7.0	12.4	13.3	15.0			
LKT 20-440-DP	85 × 278	31-10512	5.5	6.5	9.3	16.5	17.8	20.0			
LKT 25-440-DP	85 × 278	31-10510	6.8	8.1	11.6	20.7	22.2	25.0			
LKT 28.2-440-DP	85 × 320	31-10535	7.7	9.1	13.1	23.3	25.0	28.2			
LKT 30-440-DP	85 × 320	31-10509	8.2	9.7	14.0	24.8	26.7	30.0			
LKT 15.5-480-DP	70 × 225	31-10513	3.6	4.3	6.1	10.8	11.6	13.1	14.2	15.5	
LKT 18-480-DP	70 × 265	31-10522	4.17	4.9	7.0	12.5	13.5	15.1	16.5	18.0	
LKT 31.0-480-DP	85 × 320	31-10559	7.1	8.4	12.1	21.5	23.2	26.1	28.5	31.0	
LKT 10-525-DP	70 × 225	31-10517				5.8	6.3	7.0	7.7	8.33	10.0
LKT 12.5-525-DP	70 × 225	31-10516				7.3	7.8	8.8	9.6	10.4	12.5
LKT 15-525-DP	70 × 265	31-10520				8.7	9.4	10.5	11.5	12.5	15.0
LKT 20-525-DP	85 × 278	31-10521				11.6	12.5	14.1	15.4	16.7	20.0
LKT 25-525-DP	85 × 278	31-10519				14.5	15.6	17.6	19.2	20.9	25.0

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Standard Capacitors (three-phase) 60Hz

Capacitor Type	Dimensions mm	Article-No.	Rated Reactive Power in kVAr at Rated Voltage 60Hz								
			230V	250V	300V	400V	415V	440V	460V	480V	525V
Three-phase capacitors											
LKT 7.1-300-DP	60 x 225	31-10523	5.0	5.9	8.5						
LKT 14.2-300-DP	70 x 265	31-10524	10.0	11.8	17.0						
LKT 21.3-300-DP	85 x 278	31-10525	15.0	17.7	25.5						
LKT 5-400-DP	60 x 150	31-10500	2.0	2.3	3.33	6.0					
LKT 10-400-DP	60 x 225	31-10501	4.0	4.7	6.8	12.0					
LKT 12.5-400-DP	70 x 225	31-10502	5.0	5.9	8.4	15.0					
LKT 15-400-DP	70 x 265	31-10503	6.0	7.0	10.1	18.0					
LKT 20-400-DP	85 x 278	31-10504	8.0	9.4	13.5	24.0					
LKT 25-400-DP	85 x 278	31-10505	9.9	11.7	16.9	30.0					
LKT 3.8-440-DP	60 x 150	31-10534	1.25	1.5	2.1	3.8	4.1	4.6			
LKT 10-440-DP	60 x 225	31-10508	3.33	3.9	5.6	9.9	10.7	12.0			
LKT 12.5-440-DP	70 x 225	31-10507	4.1	4.8	7.0	12.4	13.3	15.0			
LKT 15-440-DP	70 x 225	31-10506	4.9	5.8	8.33	14.9	16.0	18.0			
LKT 20-440-DP	85 x 278	31-10512	6.66	7.8	11.2	19.8	21.4	24.0			
LKT 25-440-DP	85 x 278	31-10510	8.2	9.7	14.0	24.8	26.7	30.0			
LKT 28.2-440-DP	85 x 320	31-10535	9.2	10.9	15.7	27.9	30.0	33.8			
LKT 30-440-DP	85 x 320	31-10509	9.8	11.6	16.7	29.8	32.0	36.0			
LKT 15.5-480-DP	70 x 225	31-10513	4.3	5.1	7.3	13.0	13.9	15.7	17.1	18.6	
LKT 18-480-DP	70 x 265	31-10522	5.0	5.9	8.4	15.0	16.2	18.2	19.8	21.6	
LKT 31.0-480-DP	85 x 320	31-10559	8.5	10.1	14.5	25.8	27.8	31.3	34.2	37.2	
LKT 10-525-DP	70 x 225	31-10517				7.0	7.5	8.33	9.2	10.0	12.0
LKT 12.5-525-DP	70 x 225	31-10516				8.7	9.4	10.5	11.5	12.5	15.0
LKT 15-525-DP	70 x 265	31-10520				10.4	11.3	12.6	13.8	15.0	18.0
LKT 20-525-DP	85 x 278	31-10521				13.9	15.0	16.9	18.4	20.1	24.0
LKT 25-525-DP	85 x 278	31-10519				17.4	18.8	21.1	23.0	25.1	30.0

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Standard Capacitors (single-phase) 50 and 60 Hz

Capacitor Type	Dimensions mm	Article-No.	Rated Reactive Power in kVAr at Rated Voltage 50Hz								
			230V	250V	300V	400V	415V	440V	460V	480V	525V
Single-phase capacitors											
LKT 3.3-440-EP	60 x 90	31-10526	0.9			2.8	3.0	3.33			
LKT 4.17-440-EP	60 x 138	31-10527	1.1			3.4	3.7	4.17			
LKT 5-440-EP	60 x 138	31-10528	1.4			4.1	4.4	5.0			
LKT 9.4-440-EP	70 x 138	31-10511	2.6			7.8	8.4	9.4			
LKT 2.4-480-EP	60 x 90	31-10529				1.70	1.80	2.0		2.4	
LKT 3.33-480-EP	60 x 90	31-10530				2.3	2.5	2.8		3.33	
LKT 3.6-480-EP	60 x 138	31-10531	0.8			2.5	2.7	3.0		3.6	
LKT 4.8-480-EP	60 x 138	31-10515	1.1			3.33	3.6	4.0		4.8	
LKT 6-480-EP	60 x 138	31-10514	1.4			4.17	4.5	5.0		6.0	
LKT 2.8-525-EP	60 x 90	31-10532				1.6		2.0		2.3	2.8
LKT 3.33-525-EP	60 x 138	31-10533				1.9	2.1	2.3	2.6	2.8	3.33
LKT 8.33-525-EP	70 x 138	31-10518				4.8	5.2	5.9	6.4	7.0	8.33

Capacitor Type	Dimensions mm	Article-No.	Rated Reactive Power in kVAr at Rated Voltage 60Hz								
			230V	250V	300V	400V	415V	440V	460V	480V	525V
Single-phase capacitors											
LKT 3.3-440-EP	60 x 90	31-10526	1.1			3.3	3.6	4.0			
LKT 4.17-440-EP	60 x 138	31-10527	1.4			4.1	4.5	5.0			
LKT 5-440-EP	60 x 138	31-10528	1.6			5.0	5.33	6.0			
LKT 9.4-440-EP	70 x 138	31-10511	3.1			9.3	10.0	11.3			
LKT 2.4-480-EP	60 x 90	31-10529				2.0	2.15	2.4		2.9	

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Premium Capacitors 50Hz

Capacitor Type	Dimensions mm	Article-No.	Rated Reactive Power in kVAr at Rated Voltage 50Hz										
			230V	250V	300V	400V	415V	440V	460V	480V	525V	570V	615V
Three-phase capacitors													
LKT 5-400-DL	60 x 225	31-10600	1.66	2.0	2.8	5.0	5.4*	6.1*					
LKT 6.25-400-DL	60 x 225	31-10601	2.1	2.4	3.5	6.25	6.7*	7.6*					
LKT 9.3-400-DL	70 x 225	31-10602	3.0	3.6	5.2	9.3	10.0*	11.3*					
LKT 10-400-DL	70 x 225	31-10603	3.33	3.9	5.6	10.0	10.8*	12.1*					
LKT 11.7-400-DL	70 x 225	31-10604	3.9	4.6	6.66	11.7	12.6*	14.2*					
LKT 12.5-400-DL	70 x 225	31-10605	4.17	4.9	7.0	12.5	13.5*	15.1*					
LKT 20-400-DL	85 x 278	31-10606	6.66	7.8	11.3	20.0	21.5*	24.2*					
LKT 5-440-DL	60 x 225	31-10607	1.4	1.6	2.3	4.17	4.5	5.0	5.5*	6.0*			
LKT 7.6-440-DL	60 x 225	31-10608	2.1	2.5	3.5	6.25	6.8	7.6	8.33*	9.0*			
LKT 9.1-440-DL	60 x 225	31-10609	2.5	2.9	4.2	7.5	8.1	9.1	10.0*	10.8*			
LKT 12.1-440-DL	70 x 225	31-10610	3.33	3.9	5.6	10.0	10.8	12.1	13.2*	14.4*			
LKT 17.6-440-DL	85 x 278	31-10612	4.8	5.7	8.2	14.5	15.6	17.6	19.2*	21.0*			
LKT 3.6-480-DL	60 x 150	31-10613				2.5	2.7	3.0	3.33	3.6	4.3*		
LKT 4.5-480-DL	60 x 150	31-10614				3.1	3.4	3.8	4.1	4.5	5.4*		
LKT 7.2-480-DL	60 x 225	31-10615				5.0	5.4	6.0	6.66	7.2	8.6*		
LKT 7.8-480-DL	60 x 225	31-10616				5.4	5.8	6.5	7.2	7.8	9.3*		
LKT 10.4-480-DL	70 x 225	31-10617				7.3	7.8	8.8	9.6	10.4	12.4*		
LKT 12.5-480-DL	70 x 265	31-10618				8.7	9.4	10.5	11.5	12.5	15.0*		
LKT 15.5-480-DL	85 x 215	31-10627				10.8	11.6	13.0	14.2	15.5	18.5*		
LKT 4.17-525-DL	60 x 225	31-10619					2.9	3.2	3.5	4.17	4.9*	5.7*	
LKT 5.9-525-DL	60 x 225	31-10620					4.17	4.5	5.0	5.9	7.0*	8.1*	
LKT 7.7-525-DL	70 x 225	31-10621					5.4	5.91	6.5	7.7	9.1*	10.6*	
LKT 8.33-525-DL	70 x 225	31-10622					5.8	6.40	7.0	8.33	9.8*	11.4*	

Generally, DL-type capacitors can also be operated at higher voltages with the DP-type specification.

Please note that the DP values in the chart are marked with *.

Premium Capacitors 60Hz

Capacitor Type	Dimensions mm	Article-No.	Rated Reactive Power in kVAr at Rated Voltage 60Hz										
			230V	250V	300V	400V	415V	440V	460V	480V	525V	570V	615V
Three-phase capacitors													
LKT 5-400-DL	60 x 225	31-10600	2.0	2.3	3.4	6.0	6.5*	7.3*					
LKT 6.25-400-DL	60 x 225	31-10601	2.5	2.9	4.2	7.5	8.1*	9.1*					
LKT 9.3-400-DL	70 x 225	31-10602	3.7	4.4	6.3	11.1	12.0*	13.5*					
LKT 10-400-DL	70 x 225	31-10603	4.0	4.7	6.8	12.0	12.9*	14.5*					
LKT 11.7-400-DL	70 x 225	31-10604	4.6	5.5	7.9	14.0	15.1*	17.0*					
LKT 12.5-400-DL	70 x 225	31-10605	5.0	5.9	8.4	15.0	16.2*	18.2*					
LKT 20-400-DL	85 x 278	31-10606	7.9	9.4	13.5	24.0	25.8*	29.0*					
LKT 5-440-DL	60 x 225	31-10607	1.66	1.9	2.8	5.0	5.4	6.0	6.6*	7.1*			
LKT 7.6-440-DL	60 x 225	31-10608	2.5	2.9	4.2	7.5	8.1	9.1	10.0*	10.9*			
LKT 9.1-440-DL	60 x 225	31-10609	3.0	3.5	5.1	9.0	9.7	10.9	11.9*	13.0*			
LKT 12.1-440-DL	70 x 225	31-10610	4.0	4.7	6.8	12.0	12.9	14.5	15.9*	17.3*			
LKT 17.6-440-DL	85 x 278	31-10612	5.8	6.8	9.8	17.4	18.8	21.1	23.1*	25.1*			
LKT 3.6-480-DL	60 x 150	31-10613				3.0	3.2	3.6	4.0	4.3	5.2*		
LKT 4.5-480-DL	60 x 150	31-10614				3.8	4.0	4.6	5.0	5.4	6.5*		
LKT 7.2-480-DL	60 x 225	31-10615				6.0	6.5	7.2	7.9	8.6	10.3*		
LKT 7.8-480-DL	60 x 225	31-10616				6.5	7.0	7.9	8.6	9.3	11.2*		
LKT 10.4-480-DL	70 x 225	31-10617				8.7	9.3	10.5	11.5	12.5	14.9*		
LKT 12.5-480-DL	70 x 265	31-10618				10.4	11.2	12.6	13.8	15.0	17.9*		
LKT 15.5-480-DL	85 x 215	31-10627				12.9	13.9	15.6	17.1	18.6	22.3*		
LKT 4.17-525-DL	60 x 225	31-10619					3.5	3.8	4.2	5.0	5.9*	6.9*	
LKT 5.9-525-DL	60 x 225	31-10620					4.97	5.5	5.9	7.1	8.4*	9.7*	
LKT 7.7-525-DL	70 x 225	31-10621					6.5	7.1	7.8	9.3	10.9*	12.7*	
LKT 8.33-525-DL	70 x 225	31-10622					7.0	7.6	8.33	10.0	11.8*	13.7*	

Generally, DL-type capacitors can also be operated at higher voltages with the DP-type specification.

Please note that the DP values in the chart are marked with *.

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Heavy Duty

Capacitor Type	Dimensions mm	Article-No.	Rated Reactive Power in kVAr at Rated Voltage 50 Hz									
			230V	250V	300V	400V	415V	440V	460V	480V	500V	525V

Three-phase capacitors

LKT 16.8-480-HD	85 x 215	31-10580	3.9	4.6	6.6	11.7	12.6	14.1	15.4	16.8		
LKT 18-480-HD	85 x 215	31-10581	4.1	4.9	7.0	12.5	13.5	15.1	16.5	18.0		
LKT 15.6-500-HD	85 x 215	31-10582	3.3	3.9	5.6	10.0	10.8	12.1	13.2	14.4	15.6	
LKT 16.1-500-HD	85 x 215	31-10583	3.4	4.0	5.8	10.3	11.1	12.5	13.6	14.8	16.1	
LKT 16.8-500-HD	85 x 215	31-10584	3.6	4.2	6.1	10.8	11.6	13.0	14.2	15.5	16.8	
LKT 18-525-HD	85 x 215	31-10585				10.5	11.3	12.6	13.8	15.1		18.0

Capacitor Type	Dimensions mm	Article-No.	Rated Reactive Power in kVAr at Rated Voltage 60 Hz									
			230V	250V	300V	400V	415V	440V	460V	480V	500V	525V

Three-phase capacitors

LKT 16.8-480-HD	85 x 215	31-10580	4.6	5.5	7.9	14.0	15.1	16.9	18.5	20.2		
LKT 18-480-HD	85 x 215	31-10581	5.0	5.9	8.4	15.0	16.2	18.2	19.8	21.6		
LKT 15.6-500-HD	85 x 215	31-10582	4.0	4.7	6.7	12.0	12.9	14.5	15.8	17.3	18.7	
LKT 16.1-500-HD	85 x 215	31-10583	4.1	4.8	7.0	12.4	13.3	15.0	16.4	17.8	19.3	
LKT 16.8-500-HD	85 x 215	31-10584	4.3	5.0	7.3	12.9	13.9	15.6	17.1	18.6	20.2	
LKT 18-525-HD	85 x 215	31-10585				12.5	13.5	15.2	16.6	18.1		21.6

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