

LOW VOLTAGE POWER FACTOR CORRECTION CAPACITORS KNK






- BETTER THERMAL CONDUCTIVITY
- LOWER TEMPERATURE OF HOTSPOT, LOWER Tg(d) AND ESR
- LONGER EXPECTED LIFE TIME
- TYPE TEST RESULTS (DESTRUCTION TEST, ENDURANCE)

LOW VOLTAGE POWER FACTOR CORRECTION CAPACITORS

USE

THE KNK CAPACITORS ARE USED FOR POWER FACTOR CORRECTION OF INDUCTIVE CONSUMERS (TRANSFORMERS, ELECTRIC MOTORS, RECTIFIERS) IN INDUSTRIAL NETWORKS FOR VOLTAGES UP TO 690 V.

TECHNICAL DATA

TYPE	KNK5015	KNK5065	KNK1053	KNK9053	KNK3053	KNK4053
						
STANDARD	 UL 810 APPROVAL (E163120) IEC/EN 60831-1/2	 UL 810 APPROVAL (E163120) IEC/EN 60831-1/2	IEC/EN 60831-1/2	 UL 810 APPROVAL (E163120) IEC/EN 60831-1/2	 UL 810 APPROVAL (E163120) IEC/EN 60831-1/2	 UL 810 APPROVAL (E163120) IEC/EN 60831-1/2
CONNECTION	SINGLE PHASE	DELTA (THREE PHASE)	DELTA (THREE PHASE)	DELTA (THREE PHASE)	DELTA (THREE PHASE)	DELTA (THREE PHASE)
RATED AC VOLTAGE	230 - 525 V	230 - 525 V	230 - 690 V	230 - 690 V	230 - 800 V	230 - 800 V
RATED REACTIVE POWER	1 - 5 kvar	1 - 7.5 kvar	1 - 30 kvar	1 - 40 kvar	1 - 40 kvar	1 - 40 kvar
RATED FREQUENCY	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
CAPACITANCE TOLERANCE	-5 / +10 % (OTHER ON REQUEST)	-5 / +10 % (OTHER ON REQUEST)	-5 / +10 % (OTHER ON REQUEST)	-5 / +10 % (OTHER ON REQUEST)	-5 / +10 % (OTHER ON REQUEST)	-5 / +10 % (OTHER ON REQUEST)
CLIMATIC CATEGORY	-25 / D	-25 / D	-25 / D	-25 / D	-40 / D	-40 / D
MAXIMUM HUMIDITY	95 %	95 %	95 %	95 %	95 %	95 %
TOTAL LOSES	≤ 0.45 W/kvar	≤ 0.45 W/kvar	≤ 0.45 W/kvar	≤ 0.45 W/kvar	≤ 0.45 W/kvar	≤ 0.45 W/kvar
MAXIMUM OVERVOLTAGE	1.1 x U _n (8 h / DAY)	1.1 x U _n (8 h / DAY)	1.1 x U _n (8 h / DAY)	1.1 x U _n (8 h / DAY)	1.1 x U _n (8 h / DAY)	1.1 x U _n (8 h / DAY)
MAXIMUM OVERCURRENT	1.3 x I _n	1.3 x I _n	1.7 x I _n	1.7 x I _n	2 x I _n	2 x I _n
EXPECTED LIFE TIME	> 100.000 h @ TEMP. CATEGORY D	> 100.000 h @ TEMP. CATEGORY D	> 130.000 h @ TEMP. CATEGORY D	> 130.000 h @ TEMP. CATEGORY D	> 150.000 h @ TEMP. CATEGORY D	> 150.000 h @ TEMP. CATEGORY D
SAFETY DEVICE	OVERPRESSURE DISCONNECTOR	OVERPRESSURE DISCONNECTOR	OVERPRESSURE DISCONNECTOR	OVERPRESSURE DISCONNECTOR	OVERPRESSURE DISCONNECTOR	OVERPRESSURE DISCONNECTOR
DIELECTRIC - ELECTRODES	SELF-HEALING METALLIZED POLYPROPYLENE FILM	SELF-HEALING METALLIZED POLYPROPYLENE FILM	SELF-HEALING METALLIZED POLYPROPYLENE FILM	SELF-HEALING METALLIZED POLYPROPYLENE FILM	SELF-HEALING METALLIZED POLYPROPYLENE FILM	SELF-HEALING METALLIZED POLYPROPYLENE FILM
FILLING	NON PCB BIODEGRADABLE VEGETABLE OIL	NON PCB BIODEGRADABLE VEGETABLE OIL	DRY	NON PCB BIODEGRADABLE VEGETABLE OIL	DRY (FILLET WITH NON PCB POLYURETHANE RESIN)	NON PCB BIODEGRADABLE VEGETABLE OIL
CASE	ALUMINIUM	ALUMINIUM	ALUMINIUM	ALUMINIUM	ALUMINIUM	ALUMINIUM