TeSys contactors

For switching 3-phase capacitor banks, used for power factor correction, Direct connection without choke inductors

Special contactors

Special contactors **LC1 D●K** are designed for switching 3-phase, single or multiplestep capacitor banks. The contactors are conform to standard IEC 60947-4-1 according to the AC-6b category of use and are UL, CSA and CCC certified.

Contactor applications

Specification

Contactors fitted with a block of early make poles and damping resistors (external resistive wires), limiting the value of the current on closing to 60 In max.

This current limitation increases the life of all the components of the installation, in particular that of the fuses and capacitors.

The design of the add-on block ensures safety and long life of the installation.

Operating conditions

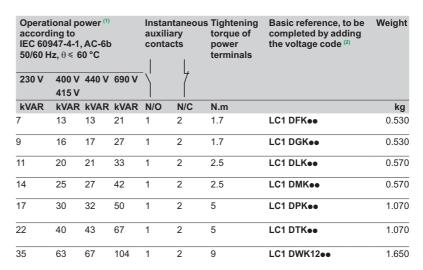
There is no need to use choke inductors for either single or multiple-step capacitor banks.

Short-circuit protection must be provided by gI type fuses rated at 1.7...2 In.

Maximum operational power

The power values given in the selection table below are for the following operating

Prospective peak current at switch-on	LC1 DeK		200 ln	
Maximum operating rate			240 operating cycles/hour	
			100 operating cycles/hour	
Electrical durability at nominal load	All contactor ratings	400 V	300 000 operating cycles	
		690 V	200 000 operating cycles	



Switching of multiple-step capacitor banks (with equal or different power ratings)

The correct contactor for each step is selected from the above table, according to the power rating of the step to be switched.

Example: 50 kVAR 3-step capacitor bank. Temperature: 40 °C and U = 400 V or 440 V. One 25 kVAR step: contactor LC1 DMK, one 15 kVAR step: contactor LC1 DGK, and one 10 kVAR step: contactor LC1 DFK.

- (1) Operational power of the contactor according to the scheme on the page opposite.
- (2) Standard control circuit voltages (the delivery time is variable, please consult your Regional Sales Office):

Volts	24	48	110	120	220	230	240	380	400	415	440
50/60 Hz	z B7	E7	F7	G7	M7	P7	U7	Q7	V7	N7	R7



LC1 DFK●.



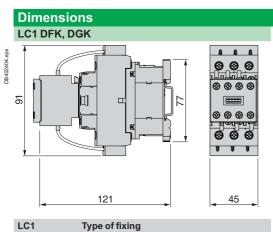
LC1 DPK.

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Version: 1.1

TeSys contactors

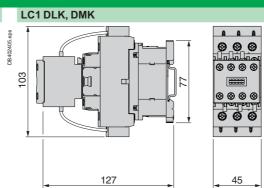
For switching 3-phase capacitor banks, used for power factor correction



See pages 5/94 and 5/95 See pages 5/94 and 5/95

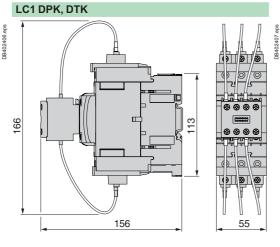
LC1 D18

LC1 D18



LC1 DWK

LC1	Type of fixing		
DLK	LC1 D25	See pages 5/94 and 5/95	
DMK	LC1 D32	See pages 5/94 and 5/95	



DB402407.eps	154	85
LC	C1 Type of fixing	

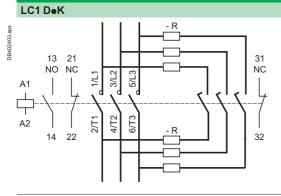
LC1	Type of fixing	Type of fixing				
DPK	LC1 D40A	See pages 5/94 and 5/95				
DTK	LC1 D65A	See pages 5/94 and 5/95				

LC1	Type of fixing		
DWK	LC1 D80	See pages 5/94 and 5/95	

Schemes

DFK

DGK



R = Pre-wired resistor connections.

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