## TeSys contactors

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



LC1 DFK11••


LC1 DPK12••

## Special contactors

Special contactors LC1 D॰K are designed for switching 3-phase, single or multiple-step capacitor banks; they conform to standards IEC 60070 and 60831, NFC 54-100, VDE 0560, UL and CSA.

## Contactor applications

## Specification

Contactors fitted with a block of early make poles and damping resistors, 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 patented design of the add-on block ( $n^{\circ} 90$ 119-20) 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 gl 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 conditions:


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: $50{ }^{\circ} \mathrm{C}$ and $\mathrm{U}=400 \mathrm{~V}$ 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) The average temperature over a 24-hour period, in accordance with standards IEC 60070 and 60831 is $45^{\circ} \mathrm{C}$
2) Standard control circuit voltages (for other voltages, please consult your Regional Sales Office):

| Volts | 24 | 42 | 48 | 110 | 115 | 220 | 230 | 240 | 380 | 400 | 415 | 440 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $50 / 60 \mathrm{~Hz}$ | B7 | D7 | E7 | F7 | FE7 | M7 | P7 | U7 | Q7 | V7 | N7 | R7 |

For other voltages between 24 and 440 V , please consult your Regional Sales Office

Dimensions,
schemes

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

## Dimensions

 LC1 DFK, DGK| LC1 | Type of fixing |  |
| :--- | :--- | :--- |
| DPK | LC1 D40 | See page $5 / 94$ |
| DTK | LC1 D50 | See page $5 / 94$ |

LC1 DWK


## LC1 DPK, DTK



| LC1 | c | Type of fixing |  |
| :--- | :--- | :--- | :--- |
| DFK | 117 | LC1 D12 | See page 5/94 |
| DGK | 122 | LC1 D18 | See page $5 / 94$ |



| LC1 | c | Type of fixing |  |
| :--- | :--- | :--- | :--- |
| DLK | 117 | LC1 D25 | See page 5/94 |
| DMK | 122 | LC1 D32 | See page $5 / 94$ |



Schemes
LC1 DoK
$R=$ Pre-wired resistor connections.

| Contactor type LC1 | DFK |  | DGK |  | DLK |  | DMK |  | DPK, DTK |  | DWK |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of conductors | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| Flexible cable with cable end ( $\mathrm{mm}^{2}$ ) | 2.5 | 1.5 | 4 | 2.5 | 4 | 4 | 6 | 4 | 16 | 6 | 50 | 25 |
| Solid cable with cable end ( $\mathrm{mm}^{2}$ ) | 4 | 4 | 6 | 6 | 10 | 6 | 16 | 10 | 25 | 16 | 50 | 35 |

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[^0]:    References :
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