

# Product datasheet

Specifications



## TeSys LC1D.K capacitor duty contactor - 3P - 25 kVAR - 415 V - 220 V AC coil

LC1DMKM7

### Main

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| Range                          | TeSys<br>TeSys Deca                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Product name                   | TeSys LC1D.K<br>TeSys Deca                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Product or component type      | Capacitor duty contactor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Device short name              | LC1DMK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Device application             | Control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Contactor application          | Power factor correction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Utilisation category           | AC-6b                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Poles description              | 3P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Power pole contact composition | 3 NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Device location in system      | Line interruption<br>Inside delta interruption                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| [Ue] rated operational voltage | Power circuit: 690 V AC 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Reactive power rating          | 14 kvar at 230 V AC 50 Hz 60 °C<br>25 kvar at 400 V AC 50 Hz 60 °C<br>27 kvar at 440 V AC 50 Hz 60 °C<br>42 kvar at 690 V AC 50 Hz 60 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Control circuit type           | AC at 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| [Uc] control circuit voltage   | 220 V AC 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Auxiliary contact composition  | 1 NO + 2 NC instantaneous                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Electrical durability          | 300000 cycles at Ue 400 V<br>200000 cycles at Ue 690 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Mounting support               | DIN rail<br>Plate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Standards                      | EN/IEC 60947-1<br>EN/IEC 60947-4-1<br>IEC 60335-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Product certifications         | IECEE CB Scheme<br>UKCA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Connections - terminals        | Control circuit: screw clamp terminals 1 1...4 mm² - cable stiffness: solid<br>Control circuit: screw clamp terminals 2 1...4 mm² - cable stiffness: solid<br>Control circuit: screw clamp terminals 1 1...4 mm² - cable stiffness: flexible without cable end<br>Control circuit: screw clamp terminals 2 1...4 mm² - cable stiffness: flexible without cable end<br>Control circuit: screw clamp terminals 1 1...4 mm² - cable stiffness: flexible with cable end<br>Control circuit: screw clamp terminals 2 1...2.5 mm² - cable stiffness: flexible with cable end<br>Power circuit: screw clamp terminals 1 2.5...16 mm² - cable stiffness: solid<br>Power circuit: screw clamp terminals 2 2.5...6 mm² - cable stiffness: solid<br>Power circuit: screw clamp terminals 1 1.5...10 mm² - cable stiffness: flexible without cable end<br>Power circuit: screw clamp terminals 2 1.5...6 mm² - cable stiffness: flexible without cable end<br>Power circuit: screw clamp terminals 1 1...10 mm² - cable stiffness: flexible with cable end |

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|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Power circuit: screw clamp terminals 2 1...4 mm² - cable stiffness: flexible with cable end |                                                                                                          |
| Tightening torque                                                                           | Control circuit: 1.7 N.m - on screw clamp terminals<br>Power circuit: 2.5 N.m - on screw clamp terminals |
| Maximum operating rate                                                                      | 240 cyc/h                                                                                                |
| <b>Complementary</b>                                                                        |                                                                                                          |
| Auxiliary contacts type                                                                     | type mechanically linked 1 NO + 2 NC conforming to IEC 60947-5-1                                         |
| <b>Environment</b>                                                                          |                                                                                                          |
| IP degree of protection                                                                     | IP20 front face conforming to IEC 60529                                                                  |
| Ambient air temperature for operation                                                       | -5...60 °C                                                                                               |
| Ambient air temperature for storage                                                         | -60...80 °C                                                                                              |
| Operating altitude                                                                          | 0...3000 m                                                                                               |
| Height                                                                                      | 125 mm                                                                                                   |
| Width                                                                                       | 45 mm                                                                                                    |
| Depth                                                                                       | 127 mm                                                                                                   |
| Product weight                                                                              | 0.63 kg                                                                                                  |
| <b>Packing Units</b>                                                                        |                                                                                                          |
| Unit Type of Package 1                                                                      | PCE                                                                                                      |
| Number of Units in Package 1                                                                | 1                                                                                                        |
| Package 1 Height                                                                            | 7.000 cm                                                                                                 |
| Package 1 Width                                                                             | 19.500 cm                                                                                                |
| Package 1 Length                                                                            | 23.000 cm                                                                                                |
| Package 1 Weight                                                                            | 600.000 g                                                                                                |
| Unit Type of Package 2                                                                      | S03                                                                                                      |
| Number of Units in Package 2                                                                | 6                                                                                                        |
| Package 2 Height                                                                            | 30.000 cm                                                                                                |
| Package 2 Width                                                                             | 30.000 cm                                                                                                |
| Package 2 Length                                                                            | 40.000 cm                                                                                                |
| Package 2 Weight                                                                            | 4.077 kg                                                                                                 |
| Unit Type of Package 3                                                                      | P06                                                                                                      |
| Number of Units in Package 3                                                                | 48                                                                                                       |
| Package 3 Height                                                                            | 75.000 cm                                                                                                |
| Package 3 Width                                                                             | 60.000 cm                                                                                                |
| Package 3 Length                                                                            | 80.000 cm                                                                                                |
| Package 3 Weight                                                                            | 42.500 kg                                                                                                |
| <b>Offer Sustainability</b>                                                                 |                                                                                                          |
| Sustainable offer status                                                                    | Green Premium product                                                                                    |
| REACH Regulation                                                                            | <a href="#">REACH Declaration</a>                                                                        |
| REACH free of SVHC                                                                          | Yes                                                                                                      |
| EU RoHS Directive                                                                           | Compliant<br><a href="#">EU RoHS Declaration</a>                                                         |

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|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Toxic heavy metal free     | Yes                                                                                                                         |
| Mercury free               | Yes                                                                                                                         |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a><br>Pro-active China RoHS declaration (out of China RoHS legal scope)                 |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                         |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                               |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

### Contractual warranty

|          |           |
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| Warranty | 18 months |
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### Recommended replacement(s)