

# LC1DWK12U7

Capacitor contactor, TeSys D, 63 kVAR at 400 V/50 Hz, coil 240 V AC 50/60 Hz





## Main

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| Range                          | TeSys                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Product name                   | TeSys LC1D.K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Product or component type      | Capacitor duty contactor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Device short name              | LC1DWK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Device application             | Control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Contactors application         | Power factor correction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Utilisation category           | AC-6b                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Poles description              | 3P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Power pole contact composition | 3 NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Device location in system      | Inside delta interruption<br>Line interruption                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| [Ue] rated operational voltage | Power circuit: 690 V AC 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Reactive power rating          | 35 Kvar at 230 V AC 50 Hz 60 °C<br>63 Kvar at 400 V AC 50 Hz 60 °C<br>67 Kvar at 440 V AC 50 Hz 60 °C<br>104 Kvar at 690 V AC 50 Hz 60 °C<br>30 Kvar at 230 V AC 60 Hz 60 °C<br>60 Kvar at 460 V AC 60 Hz 60 °C<br>80 kvar at 575 V AC 60 Hz 60 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Control circuit type           | AC at 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| [Uc] control circuit voltage   | 240 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>UL 60947-4-1<br>CSA C22.2 No 60947-4-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Product certifications         | IECEE CB Scheme<br>UL<br>CSA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Connections - terminals        | Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: solid<br>Control circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: solid<br>Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: flexible without cable end<br>Control circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: flexible without cable end<br>Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: flexible with cable end<br>Control circuit: screw clamp terminals 2 1...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end<br>Power circuit: connector 1 4...50 mm <sup>2</sup> - cable stiffness: solid<br>Power circuit: connector 2 4...25 mm <sup>2</sup> - cable stiffness: solid<br>Power circuit: connector 1 4...50 mm <sup>2</sup> - cable stiffness: flexible without cable end<br>Power circuit: connector 2 4...25 mm <sup>2</sup> - cable stiffness: flexible without cable end<br>Power circuit: connector 1 4...50 mm <sup>2</sup> - cable stiffness: flexible with cable end<br>Power circuit: connector 2 4...16 mm <sup>2</sup> - cable stiffness: flexible with cable end |
| Tightening torque              | Power circuit: 9 N.m - on connector<br>Control circuit: 1.7 N.m - on screw clamp terminals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Maximum operating rate         | 240 cyc/h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

## Complementary

|                         |                                                                  |
|-------------------------|------------------------------------------------------------------|
| Auxiliary contacts type | Type mechanically linked 1 NO + 2 NC conforming to IEC 60947-5-1 |
|-------------------------|------------------------------------------------------------------|

## Environment

|                                       |                                         |
|---------------------------------------|-----------------------------------------|
| 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                                | 180 mm                                  |
| Width                                 | 85 mm                                   |
| Depth                                 | 154 mm                                  |
| Net weight                            | 1.65 kg                                 |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Weight             | 1.815 kg |
| Package 1 Height             | 13 cm    |
| Package 1 width              | 17.4 cm  |
| Package 1 Length             | 19 cm    |
| Unit Type of Package 2       | S03      |
| Number of Units in Package 2 | 4        |
| Package 2 Weight             | 7.973 kg |
| Package 2 Height             | 30 cm    |
| Package 2 width              | 30 cm    |
| Package 2 Length             | 40 cm    |

## Offer Sustainability

|                            |                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                             |
| REACH Regulation           |  <a href="#">REACH Declaration</a>             |
| REACH free of SVHC         | Yes                                                                                                                               |
| EU RoHS Directive          | Compliant  <a href="#">EU RoHS Declaration</a> |
| Toxic heavy metal free     | Yes                                                                                                                               |
| Mercury free               | Yes                                                                                                                               |
| RoHS exemption information |  <a href="#">Yes</a>                           |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</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

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|