

# LC1D40004G6

IEC contactor, TeSys D, nonreversing, 60A resistive, 4 pole, 4 NO, 120VAC 60Hz coil, open style



## Main

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of Product               | TeSys D<br>TeSys Deca                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Product or Component Type      | Contacteur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Device short name              | LC1D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Contacteur application         | Resistive load                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Utilisation category           | AC-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Control circuit type           | AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Coil type                      | Standard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Poles description              | 4P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Pole contact composition       | 4 NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| [Ie] rated operational current | 60 A 140 °F (60 °C)) 440 V AC AC-1 power circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| [Uc] control circuit voltage   | 120 V AC 60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Connections - terminals        | Control circuit screw clamp terminal 1 x 0.00... 0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )solid without cable end<br>Control circuit screw clamp terminal 2 x 0.00... 0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible without cable end<br>Control circuit screw clamp terminal 2 x 0.00... 0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )solid without cable end<br>Power circuit screw clamp terminal 1 x 0.00... 0.02 in <sup>2</sup> (2.5...16 mm <sup>2</sup> )solid without cable end<br>Power circuit screw clamp terminal 2 x 0.00...0.02 in <sup>2</sup> (2.5...16 mm <sup>2</sup> )solid without cable end |

## Complementary

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Coil technology                             | Without built-in bidirectional peak limiting diode suppressor                                                                                                                                                                                                                                                                                                                                                                                                                |
| Protective cover                            | With                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Auxiliary contacts type                     | Mechanically linked 1 NO + 1 NC IEC 60947-5-1<br>Mirror contact 1 NC IEC 60947-4-1                                                                                                                                                                                                                                                                                                                                                                                           |
| Control circuit voltage limits              | Drop-out 0.3...0.6 U <sub>c</sub> 50/60 Hz 140 °F (60 °C))<br>Operational 0.85...1.1 U <sub>c</sub> 60 Hz 140 °F (60 °C))                                                                                                                                                                                                                                                                                                                                                    |
| [Ui] rated insulation voltage               | Control circuit 600 V CSA<br>Control circuit 600 V UL<br>Power circuit 600 V CSA<br>Power circuit 600 V UL<br>Control circuit 690 V IEC 60947-4-1<br>Power circuit 690 V IEC 60947-4-1                                                                                                                                                                                                                                                                                       |
| [Uimp] rated impulse withstand voltage      | 6 kV IEC 60947                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Overtoltage category                        | III                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Mounting Support                            | Plate<br>Rail                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Flame retardance                            | V1 conforming to UL 94                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Tightening torque                           | Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal flat Ø 6 mm<br>Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal Philips No 2<br>Power circuit 44.25 lbf.in (5 N.m) screw clamp terminal flat Ø 6 mm hexagonal<br>Power circuit 44.25 lbf.in (5 N.m) screw clamp terminal Philips No 2 hexagonal<br>Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal pozidriv No 2<br>Power circuit 44.25 lbf.in (5 N.m) screw clamp terminal pozidriv No 2 |
| [Ue] rated operational voltage              | Power circuit 690 V AC 25...400 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| [Ith] conventional free air thermal current | 10 A 140 °F (60 °C) control circuit<br>40 A 140 °F (60 °C) power circuit                                                                                                                                                                                                                                                                                                                                                                                                     |

|                            |                                                                                                                                          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Irms rated making capacity | 140 A AC control circuit IEC 60947-5-1<br>800 A 440 V AC power circuit IEC 60947                                                         |
| Rated breaking capacity    | 800 kA 440 V power circuit IEC 60947                                                                                                     |
| Associated fuse rating     | 10 A gG control circuit IEC 60947-5-1<br>80 A 690 V type 1 power circuit<br>80 A 690 V type 2 power circuit                              |
| Average impedance          | 1.5 Ohm - lth 60 A 50 Hz power circuit                                                                                                   |
| Power dissipation per pole | 5.4 W AC-1<br>2.4 W AC-3                                                                                                                 |
| Inrush power in VA         | 140 VA 0.75 68 °F (20 °C))                                                                                                               |
| Operating time             | 12...22 ms closing<br>4...19 ms opening                                                                                                  |
| Safety reliability level   | B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1<br>B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 |
| Mechanical durability      | 15000000 cycles                                                                                                                          |
| Maximum operating rate     | 3600 cyc/h 140 °F (60 °C)                                                                                                                |
| Minimum switching current  | 5 mA control circuit                                                                                                                     |
| Minimum switching voltage  | 17 V control circuit                                                                                                                     |
| Non-overlap time           | 1.5 Ms on de-energisation between NC and NO contacts<br>1.5 ms on energisation between NC and NO contacts                                |
| Insulation resistance      | > 10 MOhm control circuit                                                                                                                |

## Environment

|                                                       |                                                                                           |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Standards                                             | CSA C22.2 No 14<br>EN/IEC 60947-5-1<br>UL 508<br>EN/IEC 60947-4-1                         |
| Product Certifications                                | CSA<br>DNV<br>GL<br>BV<br>UL<br>CCC<br>RINA<br>LROS (Lloyds register of shipping)<br>UKCA |
| IP degree of protection                               | IP2x VDE 0106                                                                             |
| Protective treatment                                  | THIEC 60068-2-30                                                                          |
| Ambient Air Temperature for Operation                 | 23...140 °F (-5...60 °C)                                                                  |
| Ambient Air Temperature for Storage                   | -76...176 °F (-60...80 °C)                                                                |
| Permissible ambient air temperature around the device | -40...158 °F (-40...70 °C) at Uc                                                          |
| Operating altitude                                    | 9842.52 ft (3000 m) without derating                                                      |
| Fire resistance                                       | 1562 °F (850 °C) IEC 60695-2-1                                                            |
| Shock resistance                                      | 10 gn contactor opened<br>15 gn contactor closed                                          |
| Vibration resistance                                  | 2 gn 5...300 Hz contactor opened<br>4 gn 5...300 Hz contactor closed                      |
| Heat dissipation                                      | 2...3 W 50/60 Hz control circuit                                                          |

## Ordering and shipping details

|                       |                                     |
|-----------------------|-------------------------------------|
| Category              | 22357-CTR, TESYS D, OPEN, 40-65A AC |
| Discount Schedule     | I12                                 |
| GTIN                  | 3389110069341                       |
| Nbr. of units in pkg. | 1                                   |
| Package weight(Lbs)   | 3.16 lb(US) (1.432 kg)              |
| Returnability         | Yes                                 |
| Country of origin     | CZ                                  |

## Packing Units

|                        |                   |
|------------------------|-------------------|
| Unit Type of Package 1 | PCE               |
| Package 1 Height       | 5.12 in (13 cm)   |
| Package 1 width        | 3.74 in (9.5 cm)  |
| Package 1 Length       | 5.31 in (13.5 cm) |

## Offer Sustainability

|                            |                                                                                                                                                                                                                                                           |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                                                                                                     |
| California proposition 65  | WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| 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>                                                                                                                                                                                                             |
| Circularity Profile        | <a href="#">End Of Life Information</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 |
|----------|-----------|