



## Main

|                                |  |
|--------------------------------|--|
| Range                          | TeSys  |
| Range of Product               | TeSys Deca   |
| Product or Component Type      | Contacteur   |
| Device short name              | LC1D   |
| Contacteur application         | Resistive load   |
| Utilisation category           | AC-1   |
| Poles description              | 4P   |
| [Ue] rated operational voltage | Power circuit <= 690 V AC 25...400 Hz                            |
| [Ie] rated operational current | 125 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit |
| [Uc] control circuit voltage   | 120 V AC 50/60 Hz  |

## Complementary

|   |  |
|---|--|
| Compatibility code                          | LC1D   |
| Pole contact composition                    | 2 NO + 2 NC  |
| Contact compatibility                       | M1   |
| Protective cover                            | Without  |
| [Ith] conventional free air thermal current | 125 A (at 140 °F (60 °C)) for power circuit  |
| Irms rated making capacity                  | 1100 A at 440 V for power circuit conforming to IEC 60947  |
| Rated breaking capacity                     | 1100 A at 440 V for power circuit conforming to IEC 60947  |
| [Icw] rated short-time withstand current    | 640 A 104 °F (40 °C) - 10 s for power circuit<br>990 A 104 °F (40 °C) - 1 s for power circuit<br>135 A 104 °F (40 °C) - 10 min for power circuit<br>320 A 104 °F (40 °C) - 1 min for power circuit |
| Associated fuse rating                      | 200 A gG at <= 690 V coordination type 1 for power circuit<br>160 A gG at <= 690 V coordination type 2 for power circuit   |
| Average impedance                           | 0.8 mOhm - Ith 125 A 50 Hz for power circuit   |
| Power dissipation per pole                  | 12.5 W AC-1  |
| [Ui] rated insulation voltage               | Power circuit 600 V CSA<br>Power circuit 600 V UL<br>Power circuit 1000 V IEC 60947-4-1  |
| Overvoltage category                        | III  |
| Pollution degree                            | 3  |
| [Uimp] rated impulse withstand voltage      | 8 kV IEC 60947   |
| 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                       | 4 Mcycles  |
| Electrical durability                       | 0.8 Mcycles 125 A AC-1 <= 440 V  |
| Control circuit type                        | AC 50/60 Hz  |
| Coil technology                             | Without built-in suppressor module   |
| Control circuit voltage limits              | 0.85...1.1 Uc -40...131 °F (-40...55 °C) operational AC 60 Hz<br>0.3...0.6 Uc -40...131 °F (-40...55 °C) drop-out AC 50/60 Hz<br>0.8...1.1 Uc -40...131 °F (-40...55 °C) operational AC 50 Hz      |
| Inrush power in VA                          | 245 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C))<br>245 VA 50 Hz cos phi 0.75 (at 68 °F (20 °C))   |
| Hold-in power consumption in VA             | 26 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C))<br>26 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C))   |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

|                         |  |
|-------------------------|--|
| Heat dissipation        | 6...10 W at 50/60 Hz   |
| Operating time          | 20...35 ms closing<br>6...20 ms opening  |
| Maximum operating rate  | 3600 cyc/h 140 °F (60 °C)  |
| Connections - terminals | Control circuit: screw clamp terminals 2 0.00...0.00 in <sup>2</sup> (1...2.5 mm <sup>2</sup> ) - cable stiffness: flexible with cable end<br>Control circuit: screw clamp terminals 1 0.00...0.00 in <sup>2</sup> (1...2.5 mm <sup>2</sup> ) - cable stiffness: flexible with cable end<br>Control circuit: screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) - cable stiffness: flexible without cable end<br>Control circuit: screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) - cable stiffness: flexible without cable end<br>Control circuit: screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) - cable stiffness: solid without cable end<br>Control circuit: screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) - cable stiffness: solid without cable end<br>Power circuit: connector 1 0.01...0.08 in <sup>2</sup> (4...50 mm <sup>2</sup> ) - cable stiffness: flexible without cable end<br>Power circuit: connector 2 0.01...0.04 in <sup>2</sup> (4...25 mm <sup>2</sup> ) - cable stiffness: flexible without cable end<br>Power circuit: connector 1 0.01...0.08 in <sup>2</sup> (4...50 mm <sup>2</sup> ) - cable stiffness: flexible with cable end<br>Power circuit: connector 2 0.01...0.02 in <sup>2</sup> (4...16 mm <sup>2</sup> ) - cable stiffness: flexible with cable end<br>Power circuit: connector 1 0.01...0.08 in <sup>2</sup> (4...50 mm <sup>2</sup> ) - cable stiffness: solid without cable end<br>Power circuit: connector 2 0.01...0.04 in <sup>2</sup> (4...25 mm <sup>2</sup> ) - cable stiffness: solid without cable end |
| Tightening torque       | Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals flat Ø 6 mm<br>Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2<br>Power circuit 106.21 lbf.in (12 N.m) connector flat Ø 6 to Ø 8 mm<br>Power circuit 106.21 lbf.in (12 N.m) connector hexagonal 0.16 in (4 mm)<br>Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals pozidriv No 2  |
| Mounting Support        | Rail<br>Plate  |

## Environment

|   |   |
|---|---|
| Standards   | EN 60947-4-1<br>EN 60947-5-1<br>IEC 60947-4-1<br>IEC 60947-5-1<br>UL 60947-4-1<br>UL 60947-5-1<br>CSA C22.2 No 60947-4-1<br>CSA C22.2 No 60947-5-1<br>GB/T 14048.4                |
| Product Certifications                                | UL[RETURN]CSA[RETURN]CCC[RETURN]EAC[RETURN]UKCA[RETURN]CB[RETURN]EU-RO-MR by DNV-GL   |
| IP degree of protection                               | IP20 front face IEC 60529   |
| Protective treatment                                  | THIEC 60068-2-30  |
| Climatic withstand                                    | IACS E10 exposure to damp heat  |
| Permissible ambient air temperature around the device | -40...140 °F (-40...60 °C)<br>140...158 °F (60...70 °C) with derating   |
| Operating altitude                                    | 0...9842.52 ft (0...3000 m)   |
| Fire resistance                                       | 1562 °F (850 °C) IEC 60695-2-1  |
| Flame retardance                                      | V1 conforming to UL 94  |
| Mechanical robustness                                 | Vibrations contactor open 2 Gn, 5...300 Hz)<br>Shocks contactor open 8 Gn for 11 ms)<br>Vibrations contactor closed 3 Gn, 5...300 Hz)<br>Shocks contactor closed 10 Gn for 11 ms) |
| Height  | 5.00 in (127 mm)  |
| Width   | 3.78 in (96 mm)   |
| Depth   | 5.51 in (140 mm)  |
| Net Weight  | 4.06 lb(US) (1.84 kg)   |

## Ordering and shipping details

|                   |   |
|-------------------|---|
| Category          | 22359-CTR, TESYS D, OPEN, 80-150A AC&DC |
| Discount Schedule | I12                                     |
| GTIN              | 3389110265613                           |
| Returnability     | Yes                                     |
| Country of origin | CZ                                      |

## Packing Units

|                              |                            |
|------------------------------|----------------------------|
| Unit Type of Package 1       | PCE                        |
| Number of Units in Package 1 | 1                          |
| Package 1 Height             | 4.33 in (11.000 cm)        |
| Package 1 Width              | 5.31 in (13.500 cm)        |
| Package 1 Length             | 6.10 in (15.500 cm)        |
| Package 1 Weight             | 3.94 lb(US) (1.785 kg)     |
| Unit Type of Package 2       | S02                        |
| Number of Units in Package 2 | 5                          |
| Package 2 Height             | 5.91 in (15 cm)            |
| Package 2 Width              | 11.81 in (30 cm)           |
| Package 2 Length             | 15.75 in (40 cm)           |
| Package 2 Weight             | 20.24 lb(US) (9.182 kg)    |
| Unit Type of Package 3       | P06                        |
| Number of Units in Package 3 | 80                         |
| Package 3 Height             | 29.53 in (75.000 cm)       |
| Package 3 Width              | 23.62 in (60.000 cm)       |
| Package 3 Length             | 31.50 in (80.000 cm)       |
| Package 3 Weight             | 341.54 lb(US) (154.920 kg) |

## 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   |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>  |
| RoHS exemption information | <a href="#">Yes</a>   |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>   |
| Circularity Profile        | No need of specific recycling operations  |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.  |
| PVC free                   | Yes   |

## Contractual warranty

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