

# LC1D65B7

IEC contactor, TeSys D, nonreversing, 65A, 40HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 24VAC 50/60Hz coil, open



## Main

|                                |   |
|--------------------------------|---|
| Range of product               | TeSys D   |
| Range                          | TeSys   |
| Product or component type      | Contacteur  |
| Device short name              | LC1D  |
| Contacteur application         | Motor control<br>Resistive load   |
| Utilisation category           | AC-3<br>AC-4<br>AC-1<br>AC-2  |
| Control circuit type           | AC 50/60 Hz   |
| Poles description              | 3P  |
| Pole contact composition       | 3 NO  |
| [Ie] rated operational current | 80 A 140 °F (60 °C)) <= 440 V AC AC-1 power circuit<br>65 A 140 °F (60 °C)) <= 440 V AC AC-3 power circuit  |
| Motor power kW                 | 30 KW 440 V AC 50 Hz AC-3)<br>11 KW 400 V AC 50 Hz AC-4)<br>30 KW 380...400 V AC 50 Hz AC-3)<br>37 KW 500 V AC 50 Hz AC-3)<br>37 KW 660...690 V AC 50 Hz AC-3)<br>18.5 KW 220...230 V AC 50 Hz AC-3)<br>30 KW 415 V AC 50 Hz AC-3)<br>37 kW 1000 V AC 50 Hz AC-3) |

## Complementary

|  |   |
|--|---|
| Coil technology                        | Without built-in bidirectional peak limiting diode suppressor   |
| Front cover                            | With  |
| Maximum Horse Power Rating             | 5 Hp 115 V at AC 60 Hz for 1 phase<br>10 Hp 230/240 V at AC 60 Hz for 1 phase<br>20 Hp 200/208 V at AC 60 Hz for 3 phase<br>20 Hp 230/240 V at AC 60 Hz for 3 phase<br>40 Hp 460/480 V at AC 60 Hz for 3 phase<br>50 hp 575/600 V at AC 60 Hz for 3 phase |
| Auxiliary contacts type                | Mechanically linked 1 NO + 1 NC IEC 60947-5-1<br>Mirror contact 1 NC IEC 60947-4-1  |
| Auxiliary contact composition          | 1 NO + 1 NC   |
| [Uc] control circuit voltage           | 24 V AC 50/60 Hz  |
| [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 60947-1<br>Power circuit 690 V IEC 60947-1  |
| [Uimp] rated impulse withstand voltage | 8 kV IEC 60947  |
| Overvoltage category                   | III   |
| Mounting support                       | Plate<br>Rail   |
| Flame retardance                       | V1 conforming to UL 94  |

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.

|   |  |
|---|--|
| Connections - terminals                     | Control circuit screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )rigid<br>Control circuit screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )rigid<br>Control circuit screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )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> )flexible without cable end<br>Control circuit screw clamp terminals 1 0.00...0.00 in <sup>2</sup> (1...2.5 mm <sup>2</sup> )flexible with cable end<br>Control circuit screw clamp terminals 2 0.00...0.00 in <sup>2</sup> (1...2.5 mm <sup>2</sup> )flexible with cable end<br>Power circuit screw terminals 1 0.00...0.04 in <sup>2</sup> (2.5...25 mm <sup>2</sup> )rigid<br>Power circuit screw terminals 2 0.00...0.02 in <sup>2</sup> (2.5...16 mm <sup>2</sup> )rigid<br>Power circuit screw terminals 1 0.00...0.04 in <sup>2</sup> (2.5...25 mm <sup>2</sup> )flexible without cable end<br>Power circuit screw terminals 2 0.00...0.02 in <sup>2</sup> (2.5...16 mm <sup>2</sup> )flexible without cable end<br>Power circuit screw terminals 1 0.00...0.04 in <sup>2</sup> (2.5...25 mm <sup>2</sup> )flexible with cable end<br>Power circuit screw terminals 2 0.00...0.02 in <sup>2</sup> (2.5...10 mm <sup>2</sup> )flexible with cable end |
| Tightening torque                           | Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminal flat Ø 6 mm<br>Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminal Philips No 2<br>Power circuit 44.25 lbf.in (5 N.m) screw terminal flat Ø 6 to Ø 8 mm  |
| [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>80 A 140 °F (60 °C) power circuit   |
| Irms rated making capacity                  | 1000 A 440 V power circuit IEC 60947<br>140 A AC control circuit IEC 60947-5-1   |
| Rated breaking capacity                     | 1000 A 440 V power circuit IEC 60947   |
| Associated fuse rating                      | 10 A gG control circuit IEC 60947-5-1<br>125 A gG <= 690 V type 2 power circuit<br>160 A gG <= 690 V type 1 power circuit  |
| Power dissipation per pole                  | 4.2 W AC-3<br>6.4 W AC-1   |
| Inrush power in VA                          | 140 VA 0.75 68 °F (20 °C))<br>160 VA 0.75 68 °F (20 °C))   |
| Hold-in power consumption in VA             | 13 VA 60 Hz 0.3 68 °F (20 °C))<br>15 VA 50 Hz 0.3 68 °F (20 °C))   |
| Operating time                              | 4...19 ms opening<br>12...26 ms closing  |
| Safety reliability level                    | B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1<br>B10d = 2000000 cycles contactor with mechanical load EN/ISO 13849-1  |
| Mechanical durability                       | 6000000 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  |
| Height                                      | 5.00 in (127 mm)   |
| Width                                       | 2.95 in (75 mm)  |
| Depth                                       | 4.69 in (119 mm)   |
| Net Weight                                  | 3.09 lb(US) (1.4 kg)   |

## Environment

|                                     |   |
|-------------------------------------|---|
| Standards                           | IEC 60947-4-1<br>UL 508<br>EN 60947-5-1<br>EN 60947-4-1<br>IEC 60947-5-1<br>CSA C22.2 No 14 |
| Product certifications              | CSA<br>UL<br>CCC<br>BV<br>GL<br>GOST<br>RINA<br>LROS (Lloyds register of shipping)<br>DNV   |
| IP degree of protection             | IP2x IEC 60529<br>IP2x VDE 0106   |
| Ambient air temperature for storage | -76...176 °F (-60...80 °C)  |
| 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                    | 4...5 W 50/60 Hz control circuit  |

## Ordering and shipping details

|                       |                                       |
|-----------------------|---------------------------------------|
| Category              | 22357 - CTR, TESYS D, OPEN, 40-65A AC |
| Discount Schedule     | I12                                   |
| GTIN                  | 00785901207665                        |
| Nbr. of units in pkg. | 1                                     |
| Package weight(Lbs)   | 3.09 lb(US) (1.40 kg)                 |
| Returnability         | Yes                                   |
| Country of origin     | CZ                                    |

## Packing Units

|                              |                          |
|------------------------------|--------------------------|
| Unit Type of Package 1       | PCE                      |
| Package 1 Height             | 3.74 in (9.5 cm)         |
| Package 1 width              | 5.20 in (13.2 cm)        |
| Package 1 Length             | 5.51 in (14 cm)          |
| Unit Type of Package 2       | S02                      |
| Number of Units in Package 2 | 5                        |
| Package 2 Weight             | 16.72 lb(US) (7.586 kg)  |
| Package 2 Height             | 5.91 in (15 cm)          |
| Package 2 width              | 11.81 in (30 cm)         |
| Package 2 Length             | 15.75 in (40 cm)         |
| Unit Type of Package 3       | P06                      |
| Number of Units in Package 3 | 80                       |
| Package 3 Weight             | 290.35 lb(US) (131.7 kg) |
| Package 3 Height             | 30.31 in (77 cm)         |
| Package 3 width              | 31.50 in (80 cm)         |
| Package 3 Length             | 23.62 in (60 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 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.  |
| PVC free                   | Yes   |

## Contractual warranty

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