

Product availability : Stock - Normally stocked in distribution facility



Price\* : 382.00 USD



### 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-1<br>AC-2<br>AC-3<br>AC-4  |
| Control circuit type           | DC DC standard  |
| Poles description              | 3P  |
| Pole contact composition       | 3 NO  |
| [Ie] rated operational current | 50 A (<= 140 °F (60 °C)) at <= 440 V AC AC-3 power circuit<br>80 A (<= 140 °F (60 °C)) at <= 440 V AC AC-1 power circuit  |
| Motor power kW                 | 22 kW at 380...400 V AC 50/60 Hz AC-3<br>25 kW at 415 V AC 50/60 Hz AC-3<br>30 kW at 440 V AC 50/60 Hz AC-3<br>30 kW at 500 V AC 50/60 Hz AC-3<br>33 kW at 660...690 V AC 50/60 Hz AC-3<br>15 kW at 220...230 V AC 50/60 Hz AC-3<br>11 kW at 400 V AC 50/60 Hz AC-4<br>30 kW at 1000 V AC 50/60 Hz AC-3   |
| Motor power hp                 | 15 hp at 200/208 V AC 60 Hz 3P motors conforming to CSA<br>15 hp at 200/208 V AC 60 Hz 3P motors conforming to UL<br>15 hp at 230/240 V AC 60 Hz 3P motors conforming to CSA<br>15 hp at 230/240 V AC 60 Hz 3P motors conforming to UL<br>3 hp at 115 V AC 60 Hz 1P motors conforming to CSA<br>3 hp at 115 V AC 60 Hz 1P motors conforming to UL<br>40 hp at 460/480 V AC 60 Hz 3P motors conforming to CSA<br>40 hp at 460/480 V AC 60 Hz 3P motors conforming to UL<br>40 hp at 575/600 V AC 60 Hz 3P motors conforming to CSA<br>40 hp at 575/600 V AC 60 Hz 3P motors conforming to UL<br>7.5 hp at 230/240 V AC 60 Hz 1P motors conforming to CSA |

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|                         |  |
|-------------------------|--|
| Control circuit voltage | 24 V DC  |
| Connections - terminals | Control circuit: screw clamp terminal 1 cable 0...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) - cable stiffness: solid - without cable end<br>Control circuit: screw clamp terminal 2 cable 0...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) - cable stiffness: solid - without cable end<br>Power circuit: screw clamp terminal 1 cable 0...0.05 in <sup>2</sup> (1...35 mm <sup>2</sup> ) - cable stiffness: solid - without cable end<br>Power circuit: screw clamp terminal 2 cable 0...0.04 in <sup>2</sup> (1...25 mm <sup>2</sup> ) - cable stiffness: solid - without cable end<br>Power circuit: screw clamp terminal 1 cable 0...0.05 in <sup>2</sup> (1...35 mm <sup>2</sup> ) - cable stiffness: flexible - without cable end<br>Control circuit: screw clamp terminal 1 cable 0...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) - cable stiffness: flexible - with cable end<br>Control circuit: screw clamp terminal 2 cable 0...0 in <sup>2</sup> (1...2.5 mm <sup>2</sup> ) - cable stiffness: flexible - without cable end<br>Control circuit: screw clamp terminal 2 cable 0...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) - cable stiffness: flexible - with cable end<br>Power circuit: screw clamp terminal 2 cable 0...0.04 in <sup>2</sup> (1...25 mm <sup>2</sup> ) - cable stiffness: flexible - with cable end<br>Power circuit: screw clamp terminal 2 cable 0...0.05 in <sup>2</sup> (1...35 mm <sup>2</sup> ) - cable stiffness: flexible - without cable end<br>Power circuit: screw clamp terminal 2 cable 0...0.05 in <sup>2</sup> (1...35 mm <sup>2</sup> ) - cable stiffness: solid - with cable end<br>Power circuit : screw terminals |

## Complementary

|  |   |
|--|---|
| Coil technology  | Built-in bidirectional peak limiting diode suppressor   |
| Protective cover   | With  |
| Auxiliary contacts type                                  | Type mechanically linked (1 NO + 1 NC) conforming to IEC 60947-5-1<br>Type mirror contact (1 NC) conforming to IEC 60947-4-1  |
| Auxiliary contact composition                            | 1 NO + 1 NC   |
| Control circuit voltage limits                           | 0.1...0.3 U <sub>c</sub> at 140 °F (60 °C) drop-out<br>0.75...1.25 U <sub>c</sub> at 140 °F (60 °C) operational   |
| Time constant  | 34 ms   |
| [Ui] rated insulation voltage                            | 1000 V power circuit conforming to IEC 60947-4-1<br>600 V control circuit certifications CSA<br>600 V control circuit certifications UL<br>600 V power circuit certifications CSA<br>600 V power circuit certifications UL<br>690 V control circuit conforming to IEC 60947-1<br>690 V power circuit conforming to 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  |
| Tightening torque  | Power circuit: 44.25 lbf.in (5 N.m) - on screw clamp terminal - with screwdriver flat Ø 6 mm<br>Control circuit: 10.62 lbf.in (1.2 N.m) - on screw clamp terminal - with screwdriver Philips No 2<br>Control circuit: 10.62 lbf.in (1.2 N.m) - on screw clamp terminal - with screwdriver flat Ø 6 mm<br>Power circuit: 44.25 lbf.in (5 N.m) - on screw clamp terminal - with screwdriver flat Ø 8 mm |
| System Voltage   | <= 690 V AC 25...400 Hz power circuit   |
| [I <sub>th</sub> ] conventional free air thermal current | 10 A at <= 140 °F (60 °C) control circuit<br>80 A at <= 140 °F (60 °C) power circuit  |
| I <sub>rms</sub> rated making capacity                   | 250 A DC control circuit conforming to IEC 60947-5-1<br>900 A at 440 V power circuit conforming to IEC 60947  |
| Rated breaking capacity                                  | 900 A at 440 V power circuit conforming to IEC 60947  |
| Associated fuse rating                                   | 10 A gG control circuit conforming to IEC 60947-5-1<br>100 A gG at <= 690 V coordination type 1 power circuit<br>100 A gG at <= 690 V coordination type 2 power circuit   |
| Power dissipation per pole                               | 3.7 W AC-3<br>9.6 W AC-1  |
| Inrush power in W  | 19 W at 68 °F (20 °C)   |
| Hold-in power consumption in W                           | 7.4 W at 68 °F (20 °C)  |
| Operating time   | 20 ms opening   |

|                              |   |
|------------------------------|---|
|                              | 50 ms closing   |
| Safety reliability level     | B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1<br>B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1  |
| Mechanical durability        | 10000000 cycles   |
| Operating rate               | 3600 cyc/h at <= 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   |
| Rated operational power in W | 14 W at 24 V DC-13 - electrical durability: 10000000 cycles - for control circuit<br>48 W at 24 V DC-13 - electrical durability: 3000000 cycles - for control circuit<br>96 W at 24 V DC-13 - electrical durability: 1000000 cycles - for control circuit |
| Height                       | 5 in (127 mm)   |
| Width                        | 3.35 in (85 mm)   |
| Depth                        | 6.93 in (176 mm)  |
| Product weight               | 4.82 lb(US) (2.185 kg)  |

## Environment

|   |   |
|---|---|
| Standards   | EN 60947-4-1<br>EN 60947-5-1<br>IEC 60947-4-1<br>IEC 60947-5-1<br>UL 508<br>CSA C22.2 No 14 |
| Product certifications                                | BV<br>CCC<br>CSA<br>DNV<br>GL<br>GOST<br>LROS (Lloyds register of shipping)<br>RINA<br>UL   |
| IP degree of protection                               | IP2x conforming to IEC 60529<br>IP2x conforming to VDE 0106                                 |
| 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 U <sub>c</sub>  |
| Operating altitude                                    | 9842.52 ft (3000 m) without derating in temperature   |
| Fire resistance                                       | 1562 °F (850 °C) conforming to 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                        |

## Ordering and shipping details

|                       |                                    |
|-----------------------|------------------------------------|
| Category              | 22345 - CTR,D-LINE,OPEN,NONREV-NEW |
| Discount Schedule     | I12                                |
| GTIN                  | 00785901420811                     |
| Nbr. of units in pkg. | 1                                  |
| Package weight(Lbs)   | 4.75                               |
| Returnability         | Y                                  |
| Country of origin     | CZ                                 |

## Offer Sustainability

|                          |                       |
|--------------------------|-----------------------|
| Sustainable offer status | Green Premium product |
|--------------------------|-----------------------|

|                                  |   |
|----------------------------------|---|
| RoHS (date code: YYWW)           | Compliant - since 0706 - Schneider Electric declaration of conformity<br><a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold<br><a href="#">Reference not containing SVHC above the threshold</a>                |
| Product environmental profile    | Available   |
| Product end of life instructions | Available   |

### Contractual warranty

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