

# LC1D40008FE7

TeSys D contactor - 4P(2 NO + 2 NC) - AC-1 <= 440 V 60 A 115 V AC 50/60 Hz coil

Product availability : Non-Stock - Not normally stocked in distribution facility



## Main

|   |   |
|---|---|
| Range                                       | TeSys   |
| Product name                                | TeSys D   |
| Product or component type                   | Contactor   |
| Device short name                           | LC1D  |
| Contactor application                       | Resistive load  |
| Utilisation category                        | AC-1  |
| Poles description                           | 4P  |
| Power pole contact composition              | 2 NO + 2 NC   |
| [Ue] rated operational voltage              | Power circuit <= 690 V AC 25...400 Hz<br>Power circuit <= 300 V DC  |
| [Ie] rated operational current              | 60 A 140 °F (60 °C) <= 440 V AC AC-1 power circuit  |
| Control circuit type                        | AC 50/60 Hz   |
| [Uc] control circuit voltage                | 115 V AC 50/60 Hz   |
| [Uimp] rated impulse withstand voltage      | 6 kV IEC 60947  |
| Overvoltage category                        | III   |
| [Ith] conventional free air thermal current | 60 A 140 °F (60 °C) power circuit   |
| Irms rated making capacity                  | 800 A 440 V power circuit IEC 60947   |
| Rated breaking capacity                     | 800 A 440 V power circuit IEC 60947   |
| [Icw] rated short-time withstand current    | 320 A 104 °F (40 °C) - 10 s power circuit<br>720 A 104 °F (40 °C) - 1 s power circuit<br>72 A 104 °F (40 °C) - 10 min power circuit<br>165 A 104 °F (40 °C) - 1 min power circuit |
| Associated fuse rating                      | 80 A gG <= 690 V type 1 power circuit<br>80 A gG <= 690 V type 2 power circuit  |
| Average impedance                           | 1.5 mOhm - Ith 60 A 50 Hz power circuit   |
| [Ui] rated insulation voltage               | Power circuit 600 V CSA<br>Power circuit 600 V UL   |

## Power circuit 690 V IEC 60947-4-1

|                            |  |
|----------------------------|--|
| Electrical durability      | 1.4 Mcycles 60 A AC-1 ≤ 440 V  |
| Power dissipation per pole | 5.4 W AC-1   |
| Safety cover               | Without  |
| Mounting support           | Rail<br>Plate  |
| Standards                  | CSA C22.2 No 14<br>EN 60947-4-1<br>EN 60947-5-1<br>IEC 60947-4-1<br>IEC 60947-5-1<br>UL 508  |
| Product certifications     | CCC<br>GL<br>RINA<br>UL<br>LROS (Lloyds register of shipping)<br>CSA<br>DNV<br>GOST<br>BV  |
| Connections - terminals    | 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>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...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )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> )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> )solid without cable end<br>Power circuit screw clamp terminals 1 0.00...0.05 in <sup>2</sup> (1...35 mm <sup>2</sup> )flexible without cable end<br>Power circuit screw clamp terminals 2 0.00...0.04 in <sup>2</sup> (1...25 mm <sup>2</sup> )flexible without cable end<br>Power circuit screw clamp terminals 1 0.00...0.05 in <sup>2</sup> (1...35 mm <sup>2</sup> )flexible with cable end<br>Power circuit screw clamp terminals 2 0.00...0.04 in <sup>2</sup> (1...25 mm <sup>2</sup> )flexible with cable end<br>Power circuit screw clamp terminals 1 0.00...0.05 in <sup>2</sup> (1...35 mm <sup>2</sup> )solid without cable end<br>Power circuit screw clamp terminals 2 0.00...0.04 in <sup>2</sup> (1...25 mm <sup>2</sup> )solid without cable end |
| Tightening torque          | Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm<br>Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2<br>Power circuit 70.81 lbf.in (8 N.m) screw clamp terminals 0.04...0.05 in <sup>2</sup> (25...35 mm <sup>2</sup> ) hexagonal<br>0.16 in (4 mm)<br>Power circuit 44.25 lbf.in (5 N.m) screw clamp terminals 0.00...0.04 in <sup>2</sup> (1...25 mm <sup>2</sup> ) hexagonal<br>0.16 in (4 mm)   |
| 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      | 6 Mcycles  |
| Maximum operating rate     | 3600 cyc/h 140 °F (60 °C)  |

## Complementary

|                                 |  |
|---------------------------------|--|
| Coil technology                 | Without built-in suppressor module   |
| Control circuit voltage limits  | Drop-out 0.3...0.6 Uc AC 50/60 Hz 140 °F (60 °C))<br>Operational 0.8...1.1 Uc AC 50 Hz 140 °F (60 °C))<br>Operational 0.85...1.1 Uc AC 60 Hz 140 °F (60 °C)) |
| Inrush power in VA              | 140 VA 60 Hz 0.75 68 °F (20 °C))<br>160 VA 50 Hz 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))   |
| Heat dissipation                | 4...5 W 50/60 Hz   |

## Environment

|                                       |                            |
|---------------------------------------|----------------------------|
| IP degree of protection               | IP20 front face IEC 60529  |
| Protective treatment                  | TH IEC 60068-2-30          |
| Pollution degree                      | 3                          |
| 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  |
| Fire resistance                                       | 1562 °F (850 °C) IEC 60695-2-1   |
| Flame retardance                                      | V1 UL 94   |
| Mechanical robustness                                 | Vibrations contactor open2 Gn, 5...300 Hz<br>Vibrations contactor closed4 Gn, 5...300 Hz<br>Shocks contactor closed15 Gn for 11 ms<br>Shocks contactor open10 Gn for 11 ms |
| Height  | 5.00 in (127 mm)   |
| Width   | 3.35 in (85 mm)  |
| Depth   | 4.92 in (125 mm)   |
| Net weight  | 3.17 lb(US) (1.44 kg)  |

### Ordering and shipping details

|                   |                                       |
|-------------------|---------------------------------------|
| Category          | 22357 - CTR, TESYS D, OPEN, 40-65A AC |
| Discount Schedule | I12                                   |
| GTIN              | 03389110867800                        |
| Returnability     | No                                    |
| Country of origin | CZ                                    |

### Offer Sustainability

|                            |  |
|----------------------------|--|
| Sustainable offer status   | Green Premium product  |
| REACH Regulation           | <a href="#">REACH Declaration</a>  |
| REACH free of SVHC         | Yes  |
| EU RoHS Directive          | Compliant<br><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 |
|----------|-----------|