

# LC1D40AF7

TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V  
40 A - 110 V AC 50/60 Hz coil

Product availability : Stock - Normally stocked in distribution facility



Price\* : 218.00 USD



## Main

|                                |  |
|--------------------------------|--|
| Range                          | TeSys  |
| Product name                   | TeSys D  |
| Product or component type      | Contactor  |
| Device short name              | LC1D   |
| Contactor application          | Resistive load<br>Motor control  |
| Utilisation category           | AC-1<br>AC-3<br>AC-4   |
| Utilisation category           | 18.5 kW 380...400 V AC 50/60 Hz AC-3)<br>11 kW 220...230 V AC 50/60 Hz AC-3)<br>22 kW 415...440 V AC 50/60 Hz AC-3)<br>22 kW 500 V AC 50/60 Hz AC-3)<br>30 kW 660...690 V AC 50/60 Hz AC-3)<br>9 kW 400 V AC 50/60 Hz AC-4)      |
| Utilisation category           | 2.4 W AC-3<br>5.4 W AC-1   |
| Poles description              | 3P   |
| Power pole contact composition | 3 NO   |
| [Ue] rated operational voltage | Power circuit <= 690 V AC 25...400 Hz<br>Power circuit <= 300 V DC   |
| [Ue] rated operational voltage | 60 A 140 °F (60 °C)) <= 440 V AC AC-1 power circuit<br>40 A 140 °F (60 °C)) <= 440 V AC AC-3 power circuit   |
| [Ue] rated operational voltage | 5 hp 230/240 V AC 50/60 Hz 1 phase<br>10 hp 230/240 V AC 50/60 Hz 3 phase<br>30 hp 575/600 V AC 50/60 Hz 3 phase<br>10 hp 200/208 V AC 50/60 Hz 3 phase<br>3 hp 115 V AC 50/60 Hz 1 phase<br>30 hp 460/480 V AC 50/60 Hz 3 phase |
| [Ue] rated operational voltage | 1.4 Mcycles 60 A AC-1 <= 440 V   |

\* Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

1.5 Mcycles 40 A AC-3 <= 440 V

|   |  |
|---|--|
| Electrical circuit type                       | 10 A gG signalling circuit IEC 60947-5-1<br>80 A gG <= 690 V type 1 power circuit<br>80 A gG <= 690 V type 2 power circuit   |
| Electrical circuit type                       | Power circuit 600 V CSA<br>Power circuit 600 V UL<br>Signalling circuit 690 V IEC 60947-1<br>Signalling circuit 600 V CSA<br>Signalling circuit 600 V UL<br>Power circuit 690 V IEC 60947-4-1  |
| Network type                                  | 140 A AC signalling circuit IEC 60947-5-1<br>250 A DC signalling circuit IEC 60947-5-1   |
| Maximum ambient air temperature for operation | 10 A 140 °F (60 °C) signalling circuit<br>60 A 140 °F (60 °C) power circuit  |
| Network frequency                             | 1.5 mOhm - lth 60 A 50 Hz power circuit  |
| Control circuit type                          | AC 50/60 Hz  |
| [Uc] control circuit voltage                  | 110 V AC 50/60 Hz  |
| Auxiliary contact composition                 | 1 NO + 1 NC  |
| Standards                                     | 6 kV IEC 60947   |
| Standards                                     | 800 A 440 V power circuit IEC 60947  |
| Overvoltage category                          | III  |
| Short-time current duration                   | 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<br>100 A - 1 s signalling circuit<br>120 A - 500 ms signalling circuit<br>140 A - 100 ms signalling circuit  |
| Product certifications                        | CCC<br>CSA<br>GOST<br>UL   |
| Front cover                                   | With   |
| 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  |
| 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 connection 1 0.00...0.05 in <sup>2</sup> (1...35 mm <sup>2</sup> )flexible without cable end<br>Power circuit screw connection 2 0.00...0.04 in <sup>2</sup> (1...25 mm <sup>2</sup> )flexible without cable end<br>Power circuit screw connection 1 0.00...0.05 in <sup>2</sup> (1...35 mm <sup>2</sup> )flexible with cable end<br>Power circuit screw connection 2 0.00...0.04 in <sup>2</sup> (1...25 mm <sup>2</sup> )flexible with cable end<br>Power circuit screw connection 1 0.00...0.05 in <sup>2</sup> (1...35 mm <sup>2</sup> )solid without cable end<br>Power circuit screw connection 2 0.00...0.04 in <sup>2</sup> (1...25 mm <sup>2</sup> )solid without cable end |
| Screwdriver shape                             | 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  |
| 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 = 20000000 cycles contactor with mechanical load EN/ISO 13849-1   |
| Maximum operating rate                        | 3600 cyc/h 140 °F (60 °C)  |

### Complementary

|                                |  |
|--------------------------------|--|
| Coil technology                | Without built-in suppressor module   |
| Control circuit voltage limits | 0.3...0.6 Uc -40...158 °F (-40...70 °C) drop-out AC 50/60 Hz<br>0.8...1.1 Uc -40...140 °F (-40...60 °C) operational AC 50 Hz |

|                              |   |
|------------------------------|---|
|                              | 0.85...1.1 Uc -40...140 °F (-40...60 °C) operational AC 60 Hz<br>1...1.1 Uc 140...158 °F (60...70 °C) operational AC 50/60 Hz |
| Network frequency            | 140 VA 60 Hz 0.75 68 °F (20 °C))<br>160 VA 50 Hz 0.75 68 °F (20 °C))  |
| Network frequency            | 13 VA 60 Hz 0.3 68 °F (20 °C))<br>15 VA 50 Hz 0.3 68 °F (20 °C))  |
| Network frequency            | 4...5 W 50/60 Hz  |
| Auxiliary contacts type      | Mechanically linked 1 NO + 1 NC IEC 60947-5-1<br>Mirror contact 1 NC IEC 60947-4-1  |
| Signalling circuit frequency | 25...400 Hz   |
| Electrical circuit type      | 5 mA signalling circuit   |
| Electrical circuit type      | 17 V signalling circuit   |
| Auxiliary contacts operation | 1.5 ms on de-energisation between NC and NO contact<br>1.5 ms on energisation between NC and NO contact                       |
| Insulation resistance        | > 10 MOhm signalling circuit  |
| Contact compatibility        | M2  |
| Compatibility code           | LC1D  |
| Motor power range            | 7...11 kW 200...240 V 3 phase<br>15...25 kW 380...440 V 3 phase<br>15...25 kW 480...500 V 3 phase                             |
| Motor starter type           | Direct on-line contactor  |
| Coil type                    | 110 V AC standard   |

## Environment

|                         |  |
|-------------------------|--|
| IP degree of protection | IP20 front face IEC 60529  |
| Protective treatment    | TH IEC 60068-2-30  |
| Pollution degree        | 3  |
| Condition of tests      | 140...158 °F (60...70 °C) with derating  |
| Operating altitude      | 0...9842.52 ft (0...3000 m)  |
| Standards               | 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 |

## Ordering and shipping details

|                       |                                    |
|-----------------------|------------------------------------|
| Category              | 22357 - CTR,TESYS D,OPEN,40-65A AC |
| Discount Schedule     | I12                                |
| GTIN                  | 00785901728740                     |
| Nbr. of units in pkg. | 1                                  |
| Package weight(Lbs)   | 2.08 lb(US) (0.94 kg)              |
| Returnability         | Yes                                |
| Country of origin     | ID                                 |

## Packing Units

|                              |                           |
|------------------------------|---------------------------|
| Unit Type of Package 1       | PCE                       |
| Package 1 Height             | 2.44 in (6.2 cm)          |
| Package 1 width              | 5.31 in (13.5 cm)         |
| Package 1 Length             | 6.22 in (15.8 cm)         |
| Unit Type of Package 2       | P06                       |
| Number of Units in Package 2 | 160                       |
| Package 2 Weight             | 366.72 lb(US) (166.34 kg) |
| Package 2 Height             | 29.53 in (75 cm)          |
| Package 2 width              | 31.50 in (80 cm)          |

|                  |                  |
|------------------|------------------|
| Package 2 Length | 23.62 in (60 cm) |
|------------------|------------------|

### 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><br>Pro-active China RoHS declaration (out of China RoHS legal scope)                  |
| 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 |
|----------|-----------|