

# LC1D09M7

TeSys D IEC contactor, 9 A, 3 P, 5 HP at 480 VAC, nonreversing, 220 VAC 50/60 Hz coil

Product availability : Stock - Normally stocked in distribution facility



Price\* : 94.00 USD



## Main

|                                |   |
|--------------------------------|---|
| Range                          | TeSys   |
| Product name                   | TeSys D   |
| Product or component type      | Contactor   |
| Device short name              | LC1D  |
| Contactor application          | Motor control<br>Resistive load   |
| Utilisation category           | AC-4<br>AC-3<br>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  |
| [Ie] rated operational current | 9 A 140 °F (60 °C)) <= 440 V AC AC-3 power circuit<br>25 A 140 °F (60 °C)) <= 440 V AC AC-1 power circuit   |
| Motor power kW                 | 2.2 kW 220...230 V AC 50/60 Hz AC-3)<br>4 kW 380...400 V AC 50/60 Hz AC-3)<br>4 kW 415...440 V AC 50/60 Hz AC-3)<br>5.5 kW 500 V AC 50/60 Hz AC-3)<br>5.5 kW 660...690 V AC 50/60 Hz AC-3)<br>2.2 kW 400 V AC 50/60 Hz AC-4)      |
| Motor power HP (UL / CSA)      | 1 hp 230/240 V AC 50/60 Hz 1 phase<br>2 hp 200/208 V AC 50/60 Hz 3 phase<br>2 hp 230/240 V AC 50/60 Hz 3 phase<br>5 hp 460/480 V AC 50/60 Hz 3 phase<br>7.5 hp 575/600 V AC 50/60 Hz 3 phase<br>0.33 hp 115 V AC 50/60 Hz 1 phase |
| Control circuit type           | AC 50/60 Hz   |
| [Uc] control circuit voltage   | 220 V AC 50/60 Hz   |
| Auxiliary contact composition  | 1 NO + 1 NC   |

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

|   |  |
|---|--|
| [Uimp] rated impulse withstand voltage      | 6 kV IEC 60947   |
| Overvoltage category                        | III  |
| [Ith] conventional free air thermal current | 25 A 140 °F (60 °C) power circuit<br>10 A 140 °F (60 °C) signalling circuit  |
| Irms rated making capacity                  | 250 A 440 V power circuit IEC 60947<br>140 A AC signalling circuit IEC 60947-5-1<br>250 A DC signalling circuit IEC 60947-5-1  |
| Rated breaking capacity                     | 250 A 440 V power circuit IEC 60947  |
| [Icw] rated short-time withstand current    | 105 A 104 °F (40 °C) - 10 s power circuit<br>210 A 104 °F (40 °C) - 1 s power circuit<br>30 A 104 °F (40 °C) - 10 min power circuit<br>61 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   |
| Associated fuse rating                      | 10 A gG signalling circuit IEC 60947-5-1<br>25 A gG <= 690 V type 1 power circuit<br>20 A gG <= 690 V type 2 power circuit   |
| Average impedance                           | 2.5 mOhm - Ith 25 A 50 Hz power circuit  |
| [Ui] rated insulation voltage               | Power circuit 690 V IEC 60947-4-1<br>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  |
| Electrical durability                       | 0.6 Mcycles 25 A AC-1 <= 440 V<br>2 Mcycles 9 A AC-3 <= 440 V  |
| Power dissipation per pole                  | 1.56 W AC-1<br>0.2 W AC-3  |
| Front cover                                 | With   |
| Mounting support                            | Plate<br>Rail  |
| 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                      | BV<br>LROS (Lloyds register of shipping)<br>UL<br>GOST<br>GL<br>DNV<br>CSA<br>RINA<br>CCC  |
| Connections - terminals                     | Power circuit screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible without cable end<br>Power circuit screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible without cable end<br>Power circuit screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible with cable end<br>Power 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 clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )solid without cable end<br>Power circuit screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )solid 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 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 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> )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 |
| Tightening torque                           | Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm<br>Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2<br>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                              | 12...22 ms closing<br>4...19 ms opening  |
| 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  | 15 Mcycles                |
| 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<br>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 |
| Inrush power in VA              | 70 VA 60 Hz 0.75 68 °F (20 °C)<br>70 VA 50 Hz 0.75 68 °F (20 °C)  |
| Hold-in power consumption in VA | 7.5 VA 60 Hz 0.3 68 °F (20 °C)<br>7 VA 50 Hz 0.3 68 °F (20 °C)  |
| Heat dissipation                | 2...3 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   |
| Minimum switching current       | 5 mA signalling circuit   |
| Minimum switching voltage       | 17 V signalling circuit   |
| Non-overlap time                | 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               | 1.1...2 kW 200...240 V 3 phase<br>2.2...3 kW 380...440 V 3 phase<br>4...6 kW 380...440 V 3 phase<br>4...6 kW 480...500 V 3 phase  |
| Motor starter type              | Direct on-line contactor  |
| Contactor coil voltage          | 220 V AC standard   |

## 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 | -40...140 °F (-40...60 °C)<br>140...158 °F (60...70 °C) with derating  |
| Ambient air temperature for storage   | -76...176 °F (-60...80 °C)   |
| Operating altitude                    | 0...9842.52 ft (0...3000 m)  |
| 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 open10 Gn for 11 ms<br>Shocks contactor closed15 Gn for 11 ms |
| Maximum Height                        | 3.03 in (77 mm)  |
| Maximum Width                         | 1.77 in (45 mm)  |
| Maximum Depth                         | 3.39 in (86 mm)  |
| Net Weight                            | 0.71 lb(US) (0.32 kg)  |

## Ordering and shipping details

|                       |                                      |
|-----------------------|--------------------------------------|
| Category              | 22354 - CTR, TESYS D, OPEN, 9-38A AC |
| Discount Schedule     | I12                                  |
| GTIN                  | 00785901206965                       |
| Nbr. of units in pkg. | 1                                    |
| Package weight(Lbs)   | 0.77 lb(US) (0.35 kg)                |

|                   |     |
|-------------------|-----|
| Returnability     | Yes |
| Country of origin | ID  |

### Packing Units

|                              |                          |
|------------------------------|--------------------------|
| Unit Type of Package 1       | PCE                      |
| Package 1 Height             | 1.97 in (5 cm)           |
| Package 1 width              | 3.70 in (9.4 cm)         |
| Package 1 Length             | 4.45 in (11.3 cm)        |
| Unit Type of Package 2       | S02                      |
| Number of Units in Package 2 | 20                       |
| Package 2 Weight             | 16.03 lb(US) (7.27 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 | 320                      |
| Package 3 Weight             | 282.41 lb(US) (128.1 kg) |
| Package 3 Height             | 31.50 in (80 cm)         |
| Package 3 width              | 31.50 in (80 cm)         |
| Package 3 Length             | 23.62 in (60 cm)         |

### Offer Sustainability

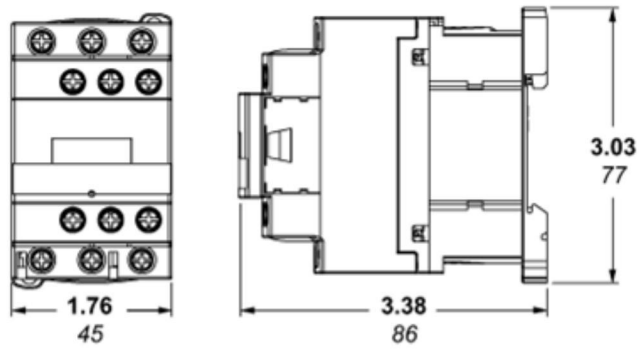
|                            |  |
|----------------------------|--|
| Sustainable offer status   | Green Premium product  |
| REACH free of SVHC         | Yes  |
| EU RoHS Directive          | Compliant<br><a href="#">EU RoHS Declaration</a>   |
| Toxic heavy metal free     | Yes  |
| Mercury free  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

Approximate Dimensions

CONTACTOR WITH AC COIL



CONTACTOR WITH DC COIL

