

# LC1D40008E5

TeSys D contactor - 4P(2 NO + 2 NC) - AC-1 - ≤  
440 V 60 A - 48 V AC 50 Hz coil

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



❗ Discontinued

LC1D40008E5 has not been replaced. Please contact your customer care center for more information.

## 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 Hz                                                                                                                                                                          |
| [Uc] control circuit voltage                | 48 V AC 50 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<br>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     | GOST<br>BV<br>CSA<br>UL<br>CCC<br>DNV<br>LROS (Lloyds register of shipping)<br>RINA<br>GL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 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 = 20000000 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  | Operational 0.8...1.1 Uc AC 50 Hz 140 °F (60 °C)<br>Drop-out 0.3...0.6 Uc AC 50 Hz 140 °F (60 °C) |
| Inrush power in VA              | 160 VA 50 Hz 0.75 68 °F (20 °C)                                                                   |
| Hold-in power consumption in VA | 15 VA 50 Hz 0.3 68 °F (20 °C)                                                                     |
| Heat dissipation                | 4...5 W 50 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              | 03389110070224                        |
| Returnability     | No                                    |

### 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 |
|----------|-----------|