

## LC1DT20FL

sklopnik TeSys D-4P(4 NO)-AC-1-<= 440 V 20 A-  
zavojnica niske potrošnje 110 V DC



### Glavno

|   |   |
|---|---|
| Range                                       | TeSys   |
| Product name                                | TeSys D   |
| Product or component type                   | Contactora  |
| Device short name                           | LC1D  |
| Contactora application                      | Resistive load  |
| Utilisation category                        | AC-1  |
| Poles description                           | 4P  |
| Pole contact composition                    | 4 NO  |
| [Ue] rated operational voltage              | <= 690 V AC 25...400 Hz for power circuit<br><= 300 V DC for power circuit  |
| [Ie] rated operational current              | 20 A (<= 60 °C) at <= 440 V AC AC-1 for power circuit   |
| Control circuit type                        | DC low consumption  |
| [Uc] control circuit voltage                | 110 V DC  |
| Auxiliary contact composition               | 1 NO + 1 NC   |
| [Uimp] rated impulse withstand voltage      | Conforming to IEC 60947   |
| Overvoltage category                        | III   |
| [Ith] conventional free air thermal current | 20 A at <= 60 °C for power circuit<br>10 A at <= 60 °C for signalling circuit   |
| Irms rated making capacity                  | 250 A at 440 V for power circuit conforming to IEC 60947<br>140 A AC for signalling circuit conforming to IEC 60947-5-1<br>250 A DC for signalling circuit conforming to IEC 60947-5-1  |
| Rated breaking capacity                     | 250 A at 440 V for power circuit conforming to IEC 60947  |
| [Icw] rated short-time withstand current    | 105 A <= 40 °C 10 s power circuit<br>210 A <= 40 °C 1 s power circuit<br>30 A <= 40 °C 10 min power circuit<br>61 A <= 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                      | 20 A gG at <= 690 V coordination type 2 for power circuit<br>25 A gG at <= 690 V coordination type 1 for power circuit<br>10 A gG for signalling circuit conforming to IEC 60947-5-1  |
| Average impedance                           | 2.5 mOhm at 50 Hz - Ith 20 A for power circuit  |
| [Ui] rated insulation voltage               | 600 V for power circuit certifications CSA<br>600 V for power circuit certifications UL<br>690 V for power circuit conforming to IEC 60947-4-1<br>690 V for signalling circuit conforming to IEC 60947-1<br>600 V for signalling circuit certifications CSA<br>600 V for signalling circuit certifications UL |
| Power dissipation per pole                  | 1.56 W AC-1   |
| Protective cover                            | With  |
| Mounting support                            | Plate<br>Rail   |

Informacije dane u ovoj dokumentaciji sadrže opće opise i/ili tehničke karakteristike o performansama ovdje sadržanih proizvoda. Ova dokumentacija nije namijenjena kao zamjena za niti bi se trebala koristiti za određivanje prikladnosti ili pouzdanosti predmetnih proizvoda za konkretne korisničke primjene. Svaki takav korisnik ili integrator dužan je provesti odgovarajuću i potpunu analizu rizika, procjenu i ispitivanje proizvoda u odnosu na odgovarajuću specifičnu primjenu ili uporabu istog. Niti društvo Schneider Electric, Industries SAS niti bilo koje od njegovih povezanih poduzeća ili podružnica neće preuzeti obvezu ili snositi odgovornost za pogrešnu upotrebu ovdje sadržanih informacija.

|                          |  |
|--------------------------|--|
| Standards                | UL 508<br>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  |
| Product certifications   | BV<br>CCC<br>CSA<br>DNV<br>GL<br>GOST<br>LROS (Lloyds register of shipping)<br>RINA<br>UL  |
| Connections - terminals  | Control circuit: screw clamp terminals 2 cable(s)<br>1...2.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Power circuit: screw clamp terminals 1 cable(s)<br>1...4 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Control circuit: screw clamp terminals 1 cable(s)<br>1...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Control circuit: screw clamp terminals 2 cable(s)<br>1...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Control circuit: screw clamp terminals 1 cable(s)<br>1...4 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Control circuit: screw clamp terminals 1 cable(s)<br>1...4 mm <sup>2</sup> - cable stiffness: solid - without cable end<br>Control circuit: screw clamp terminals 2 cable(s)<br>1...4 mm <sup>2</sup> - cable stiffness: solid - without cable end<br>Power circuit: screw clamp terminals 1 cable(s)<br>1...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Power circuit: screw clamp terminals 2 cable(s)<br>1...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Power circuit: screw clamp terminals 2 cable(s)<br>1...2.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Power circuit: screw clamp terminals 1 cable(s)<br>1...4 mm <sup>2</sup> - cable stiffness: solid - without cable end<br>Power circuit: screw clamp terminals 2 cable(s)<br>1...4 mm <sup>2</sup> - cable stiffness: solid - without cable end |
| Tightening torque        | Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm<br>Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2<br>Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm<br>Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2   |
| Operating time           | 65.45...88.55 ms closing<br>20...30 ms opening   |
| 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    | 30 Mcycles   |
| Operating rate           | 3600 cyc/h at ≤ 60 °C  |

## Komplementarno

|                                |  |
|--------------------------------|--|
| Coil technology                | Built-in bidirectional peak limiting diode suppressor  |
| Control circuit voltage limits | 0.1...0.3 U <sub>c</sub> drop-out at 60 °C, DC<br>0.8...1.25 U <sub>c</sub> operational at 60 °C, DC |
| Time constant                  | 40 ms  |
| Inrush power in W              | 2.4 W at 20 °C   |
| Hold-in power consumption in W | 2.4 W at 20 °C   |

|                              |  |
|------------------------------|--|
| 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 |
| Signalling circuit frequency | 25...400 Hz  |
| Minimum switching current    | 5 mA for signalling circuit  |
| Minimum switching voltage    | 17 V for 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 for signalling circuit   |

## Okolina

|   |  |
|---|--|
| IP degree of protection                               | IP20 front face conforming to IEC 60529  |
| protective treatment                                  | TH conforming to IEC 60068-2-30  |
| pollution degree                                      | 3  |
| ambient air temperature for operation                 | -5...60 °C   |
| ambient air temperature for storage                   | -60...80 °C  |
| permissible ambient air temperature around the device | -40...70 °C at U <sub>c</sub>  |
| operating altitude                                    | 3000 m without derating in temperature   |
| fire resistance                                       | 850 °C conforming to IEC 60695-2-1   |
| flame retardance                                      | V1 conforming to UL 94   |
| mechanical robustness                                 | Vibrations contactor open 2 Gn, 5...300 Hz<br>Vibrations contactor closed 4 Gn, 5...300 Hz<br>Shocks contactor open 10 Gn for 11 ms<br>Shocks contactor closed 15 Gn for 11 ms |
| height  | 85 mm  |
| width   | 45 mm  |
| depth   | 99 mm  |
| product weight  | 0.365 kg   |

## Offer Sustainability

|   |   |
|---|---|
| Green Premium product   | Green Premium product   |
| Compliant - since 0702 - Schneider Electric declaration of conformity | Compliant - since 0702 - Schneider Electric declaration of conformity |
| Reference not containing SVHC above the threshold                     | Reference not containing SVHC above the threshold                     |
| Available   | Available   |
| Available   | Available   |

## Contractual warranty

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