LC2DT25M7
TeSys D changeover contactor - 4P(4 NO) - AC-1
- <= 440 V 25 A - 220 V AC coil

Main

Range: TeSys
Product name: TeSys D
Product or component type: Changeover contactor
Device short name: LC2D
Contactor application: Resistive load
Utilisation category: AC-1
Device presentation: Preassembled, with prewired power connections
Poles description: 4P
Power pole contact composition: 4 NO

[Ue] rated operational voltage
- AC 25...400 Hz for power circuit
- DC for power circuit

[Ie] rated operational current
25 A (<= 60 °C) at <= 440 V AC AC-1 for power circuit

Control circuit type: AC 50/60 Hz

[Uc] control circuit voltage: 220 V AC 50/60 Hz

Auxiliary contact composition: 1 NO + 1 NC

[Uimp] rated impulse withstand voltage: 6 kV conforming to IEC 60947

Overvoltage category: III

[Ith] conventional free air thermal current
- 25 A at <= 60 °C for power circuit
- 10 A at <= 60 °C for signalling circuit

Irms rated making capacity
250 A at 440 V for power circuit conforming to IEC 60947
140 A AC for signalling circuit conforming to IEC 60947-5-1
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
- 210 A <= 40 °C 1 s power circuit
- 30 A <= 40 °C 10 min power circuit
- 61 A <= 40 °C 1 min power circuit
- 100 A 1 s signalling circuit
- 120 A 500 ms signalling circuit
- 140 A 100 ms signalling circuit

Associated fuse rating: 25 A gG at <= 690 V coordination type 2 for power circuit

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications.

Jul 16, 2019
### Average impedance
2.5 mOhm at 50 Hz - Ith 25 A for power circuit

### [Ui] rated insulation voltage
- 600 V for power circuit certifications CSA
- 600 V for power circuit certifications UL
- 690 V for power circuit conforming to IEC 60947-4-1
- 690 V for signalling circuit conforming to IEC 60947-1
- 600 V for signalling circuit certifications CSA
- 600 V for signalling circuit certifications UL

### Electrical durability
- 0.8 Mcycles 25 A AC-1 at Ue <= 440 V

### Power dissipation per pole
1.56 W AC-1

### Safety cover
- With

### Interlocking type
- Mechanical

### Mounting support
- Plate
- Rail

### Standards
- CSA C22.2 No 14
- EN 60947-4-1
- EN 60947-5-1
- IEC 60947-4-1
- IEC 60947-5-1
- UL 508

### Product certifications
- CCC
- GOST
- DNV
- RINA
- LROS (Lloyd's register of shipping)
- UL
- CSA
- GL
- BV

### Connections - terminals
- Control circuit : screw clamp terminals 2 cable(s) 1...2.5 mm² - cable stiffness: flexible - with cable end
- Power circuit : screw clamp terminals 1 cable(s) 1...4 mm² - cable stiffness: flexible - with cable end
- Control circuit : screw clamp terminals 1 cable(s) 1...4 mm² - cable stiffness: flexible - without cable end
- Control circuit : screw clamp terminals 2 cable(s) 1...4 mm² - cable stiffness: flexible - without cable end
- Control circuit : screw clamp terminals 1 cable(s) 1...4 mm² - cable stiffness: flexible - with cable end
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### Tightening torque
- Power circuit : 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm
- Power circuit : 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2
- Control circuit : 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm
- Control circuit : 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2

### Operating time
- 4...19 ms opening
- 12...22 ms closing

### Safety reliability level
- B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1
- B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1

### Mechanical durability
- 15 Mcycles

### Operating rate
- <= 3600 cyc/h at <= 60 °C

### Complementary

#### Coil technology
- Without built-in suppressor module

#### Control circuit voltage limits
- 0.3...0.6 Uc drop-out at 60 °C, AC 50/60 Hz
- 0.8...1.1 Uc operational at 60 °C, AC 50 Hz
- 0.85...1.1 Uc operational at 60 °C, AC 60 Hz

#### Inrush power in VA
- 70 VA at 20 °C (cos ϕ 0.75) 60 Hz
- 70 VA at 20 °C (cos ϕ 0.75) 50 Hz

#### Hold-in power consumption in VA
- 7.5 VA at 20 °C (cos ϕ 0.3) 60 Hz
## Heat dissipation
- 7 VA at 20 °C (cos ϕ 0.3) 50 Hz
- 2...3 W at 50/60 Hz

## Auxiliary contacts type
- Type mechanically linked (1 NO + 1 NC) conforming to IEC 60947-5-1
- 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 Signalling circuit

## Non-overlap time
- 1.5 ms on de-energisation (between NC and NO contact)
- 1.5 ms on energisation (between NC and NO contact)

## Insulation resistance
- > 10 MOhm for signalling circuit

### Environment

<table>
<thead>
<tr>
<th>IP degree of protection</th>
<th>IP20 front face conforming to IEC 60529</th>
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</thead>
<tbody>
<tr>
<td>Protective treatment</td>
<td>TH conforming to IEC 60068-2-30</td>
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<tr>
<td>Pollution degree</td>
<td>3</td>
</tr>
<tr>
<td>Ambient air temperature for operation</td>
<td>-5...60 °C</td>
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<tr>
<td>Ambient air temperature for storage</td>
<td>-60...80 °C</td>
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<tr>
<td>Permissible ambient air temperature around the device</td>
<td>-40...70 °C at Uc</td>
</tr>
<tr>
<td>Operating altitude</td>
<td>3000 m without derating</td>
</tr>
<tr>
<td>Fire resistance</td>
<td>850 °C conforming to IEC 60695-2-1</td>
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<tr>
<td>Flame retardance</td>
<td>V1 conforming to UL 94</td>
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</tbody>
</table>
| Mechanical robustness   | Vibrations contactor open 2 Gn, 5...300 Hz
|                         | Vibrations contactor closed 4 Gn, 5...300 Hz
|                         | Shocks contactor open 10 Gn for 11 ms    |
|                         | Shocks contactor closed 15 Gn for 11 ms  |

| Height | 85 mm |
| Width  | 90 mm |
| Depth  | 90 mm |
| Product weight | 0.73 kg |

### Offer Sustainability

<table>
<thead>
<tr>
<th>Sustainable offer status</th>
<th>Green Premium product</th>
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<tr>
<td>RoHS (date code: YYWW)</td>
<td>Compliant - since 0711 - Schneider Electric declaration of conformity</td>
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**Schneider Electric declaration of conformity**

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### Contractual warranty

| Warranty period | 18 months |