# Product datasheet

Specifications



## TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 150 A - 115 V AC 50/60 Hz coil

Local distributor code:

389741815 LC1D150FE7

Discontinued on: 9 Jul 2026

Discontinued

**EAN Code: 3389110527452**

## Main

| | |
|---|---|
| **Range** | TeSys |
| **Range of product** | TeSys Deca |
| **Product or component type** | Contactor |
| **Device short name** | LC1D |
| **Contactor application** | Resistive load<br>Motor control |
| **Utilisation category** | AC-3<br>AC-4<br>AC-1<br>AC-3e |
| **Poles description** | 3P |
| **[Ue] rated operational voltage** | Power circuit: <= 1000 V AC 25...400 Hz<br>Power circuit: <= 300 V DC |
| **[Ie] rated operational current** | 200 A (at <60 °C) at <= 440 V AC AC-1 for power circuit<br>150 A (at <60 °C) at <= 440 V AC AC-3 for power circuit<br>150 A (at <60 °C) at <= 440 V AC AC-3e for power circuit |
| **[Uc] control circuit voltage** | 115 V AC 50/60 Hz |

## Complementary

| | |
|---|---|
| **Motor power kW** | 40 kW at 220...230 V AC 50/60 Hz (AC-3)<br>75 kW at 380...400 V AC 50/60 Hz (AC-3)<br>80 kW at 415...440 V AC 50/60 Hz (AC-3)<br>90 kW at 500 V AC 50/60 Hz (AC-3)<br>100 kW at 660...690 V AC 50/60 Hz (AC-3)<br>75 kW at 1000 V AC 50/60 Hz (AC-3)<br>22 kW at 400 V AC 50/60 Hz (AC-4)<br>40 kW at 220...230 V AC 50/60 Hz (AC-3e)<br>75 kW at 380...400 V AC 50/60 Hz (AC-3e)<br>80 kW at 415...440 V AC 50/60 Hz (AC-3e)<br>90 kW at 500 V AC 50/60 Hz (AC-3e)<br>100 kW at 660...690 V AC 50/60 Hz (AC-3e)<br>75 kW at 1000 V AC 50/60 Hz (AC-3e) |
| **Motor power hp** | 40 hp at 200/208 V AC 50/60 Hz for 3 phases motors<br>50 hp at 230/240 V AC 50/60 Hz for 3 phases motors<br>100 hp at 460/480 V AC 50/60 Hz for 3 phases motors<br>125 hp at 575/600 V AC 50/60 Hz for 3 phases motors |
| **Compatibility code** | LC1D |
| **Pole contact composition** | 3 NO |
| **Protective cover** | With |
| **[Ith] conventional free air thermal current** | 200 A (at 60 °C) 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

| | |
|---|---|
| **Irms rated making capacity** | 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<br>1660 A at 440 V for power circuit conforming to IEC 60947 |
| **Rated breaking capacity** | 1400 A at 440 V for power circuit conforming to IEC 60947 |
| **[Icw] rated short-time withstand current** | 250 A 40 °C - 10 min for power circuit<br>580 A 40 °C - 1 min for power circuit<br>1200 A 40 °C - 10 s for power circuit<br>1400 A 40 °C - 1 s for power circuit<br>100 A - 1 s for signalling circuit<br>120 A - 500 ms for signalling circuit<br>140 A - 100 ms for signalling circuit |
| **Associated fuse rating** | 10 A gG for signalling circuit conforming to IEC 60947-5-1<br>315 A gG at <= 690 V coordination type 1 for power circuit<br>250 A gG at <= 690 V coordination type 2 for power circuit |
| **Average impedance** | 0.6 mOhm - Ith 200 A 50 Hz for power circuit |
| **Power dissipation per pole** | 24 W AC-1<br>13.5 W AC-3<br>13.5 W AC-3e |
| **[Ui] rated insulation voltage** | Power circuit: 600 V CSA certified<br>Power circuit: 600 V UL certified<br>Power circuit: 1000 V conforming to IEC 60947-4-1<br>Signalling circuit: 690 V conforming to IEC 60947-1<br>Signalling circuit: 600 V CSA certified<br>Signalling circuit: 600 V UL certified |
| **Overvoltage category** | III |
| **Pollution degree** | 3 |
| **[Uimp] rated impulse withstand voltage** | 8 kV conforming to IEC 60947 |
| **Safety reliability level** | B10d = 684932 cycles contactor with nominal load conforming to EN/ISO 13849-1<br>B10d = 10000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1 |
| **Mechanical durability** | 8 Mcycles |
| **Electrical durability** | 0.85 Mcycles 150 A AC-3 at Ue <= 440 V<br>1 Mcycles 200 A AC-1 at Ue <= 440 V<br>0.85 Mcycles 150 A AC-3e at Ue <= 440 V |
| **Control circuit type** | AC at 50/60 Hz standard |
| **Coil technology** | Built-in bidirectional peak limiting diode suppressor |
| **Control circuit voltage limits** | 0.3...0.5 Uc (-40…70 °C):drop-out AC 50/60 Hz<br>0.8...1.15 Uc (-40…55 °C):operational AC 50/60 Hz<br>1...1.15 Uc (55…70 °C):operational AC 50/60 Hz |
| **Inrush power in VA** | 280…350 VA 60 Hz cos phi 0.9 (at 20 °C)<br>280…350 VA 50 Hz cos phi 0.9 (at 20 °C) |
| **Hold-in power consumption in VA** | 2…18 VA 60 Hz cos phi 0.9 (at 20 °C)<br>2…18 VA 50 Hz cos phi 0.9 (at 20 °C) |
| **Heat dissipation** | 3…4.5 W at 50/60 Hz |
| **Operating time** | 20...35 ms closing<br>40...75 ms opening |
| **Maximum operating rate** | 1200 cyc/h at 60 °C |

| | |
|---|---|
| **Connections - terminals** | Control circuit: screw clamp terminals 2 1…2.5 mm² - cable stiffness: flexible with cable end<br>Control circuit: screw clamp terminals 1 1…2.5 mm² - cable stiffness: flexible with cable end<br>Control circuit: screw clamp terminals 1 1…2.5 mm² - cable stiffness: flexible without cable end<br>Control circuit: screw clamp terminals 2 1…2.5 mm² - cable stiffness: flexible without cable end<br>Control circuit: screw clamp terminals 1 1…2.5 mm² - cable stiffness: solid without cable end<br>Control circuit: screw clamp terminals 2 1…2.5 mm² - cable stiffness: solid without cable end<br>Power circuit: connector 1 10…120 mm² - cable stiffness: flexible without cable end<br>Power circuit: connector 2 10…50 mm² - cable stiffness: flexible without cable end<br>Power circuit: connector 1 10…120 mm² - cable stiffness: flexible with cable end<br>Power circuit: connector 2 10…50 mm² - cable stiffness: flexible with cable end<br>Power circuit: connector 1 10…120 mm² - cable stiffness: solid without cable end<br>Power circuit: connector 2 10…50 mm² - cable stiffness: solid without cable end |
| **Tightening torque** | Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm<br>Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2<br>Power circuit: 12 N.m - on connector hexagonal screw head 4 mm<br>Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 |
| **Auxiliary contact composition** | 1 NO + 1 NC |
| **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 voltage** | 17 V for signalling circuit |
| **Minimum switching current** | 5 mA for signalling circuit |
| **Insulation resistance** | > 10 MOhm 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 |
| **Mounting support** | Rail<br>Plate |

## Environment

| | |
|---|---|
| **Standards** | CSA C22.2 No 14<br>EN 60947-4-1<br>IEC 60947-4-1<br>IEC 60335-1:Clause 30.2<br>IEC 60335-2-40:Annex JJ<br>UL 60335-2-40:Annex JJ<br>UL 60947-4-1<br>CSA C22.2 No 60947-4-1<br>JIS C8201-4-1 |
| **Product certifications** | UL<br>CCC<br>CSA<br>CE<br>UKCA<br>Marine<br>EAC |
| **IP degree of protection** | IP20 front face conforming to IEC 60529 |
| **Protective treatment** | TH conforming to IEC 60068-2-30 |
| **Climatic withstand** | conforming to IACS E10 exposure to damp heat |
| **Permissible ambient air temperature around the device** | -40…60 °C<br>60…70 °C with derating |
| **Operating altitude** | 0...3000 m |
| **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 closed (15 Gn for 11 ms)<br>Shocks contactor open (6 Gn for 11 ms) |
| **Height** | 158 mm |
| **Width** | 120 mm |
| **Depth** | 136 mm |
| **Net weight** | 2.5 kg |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Number of Units in Package 1** | 1 |
| **Package 1 Height** | 19.500 cm |
| **Package 1 Width** | 17.500 cm |
| **Package 1 Length** | 21.000 cm |
| **Package 1 Weight** | 2.475 kg |
| **Unit Type of Package 2** | P06 |
| **Number of Units in Package 2** | 27 |
| **Package 2 Height** | 75.000 cm |
| **Package 2 Width** | 60.000 cm |
| **Package 2 Length** | 80.000 cm |
| **Package 2 Weight** | 81.742 kg |

## Logistical informations

| | |
|---|---|
| **Country of origin** | CZ |

## Contractual warranty

| | |
|---|---|
| **Warranty (in months)** | 18 |

## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

### Environmental footprint

| | |
|---|---|
| Total lifecycle Carbon footprint | **113 kg CO2 eq.** |
| Carbon footprint of the manufacturing phase [A1 to A3] | **22 kg CO2 eq.** |
| Carbon footprint of the distribution phase [A4] | **0.8 kg CO2 eq.** |
| Carbon footprint of the installation phase [A5] | **0.3 kg CO2 eq.** |
| Carbon footprint of the use phase [B2, B3, B4, B6] | **86 kg CO2 eq.** |
| Carbon footprint of the end-of-life phase [C1 to C4] | **4 kg CO2 eq.** |
| Environmental Disclosure | Product Environmental Profile |

## Use Better

### Materials and Substances

| | |
|---|---|
| Packaging made with recycled cardboard | **Yes** |
| Packaging without single use plastic | **Yes** |
| SCIP Number | **A530c666-91dd-4119-8d61-f1c22a361ecb** |
| EU RoHS Directive | Compliant By Exemption |
| REACh Regulation | Reference contains Substances of Very High Concern above the threshold |
| PVC free | **Yes** |

## Use Longer

### Lifetime extension

| | |
|---|---|
| Repair | **No** |

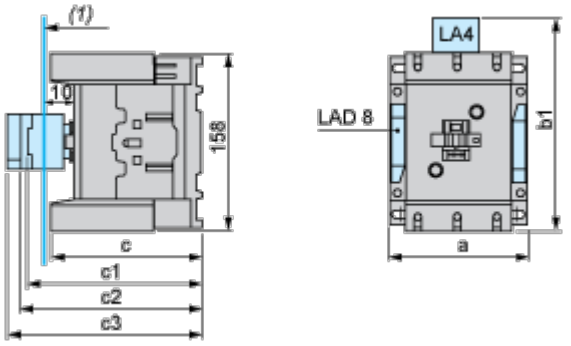
## Use Again

### Repack and remanufacture

| | |
|---|---|
| Recyclability potential, in % | **54** |
| End of life manual availability | End of Life Information |
| Take-back | **No** |
| WEEE Label | **The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins** |

## Dimensions Drawings

### Dimensions




(1) Minimum electrical clearance

| LC1 | | D115 and D150 (3-pole) |
|---|---|---|
| **a** | | 120 |
| **b1** | with LA4 DA2 | 174 |
| | with LA4 DF, DT | 185 |
| | with LA4 DM, DL | 188 |
| | with LA4 DW | 188 |
| **c** | without cover or add-on blocks | 132 |
| | with cover, without add-on blocks | 136 |
| **c1** | with LAD N or C (2 or 4 contacts) | 150 |
| **c2** | with LA6 DK20 | 155 |
| **c3** | with LAD T, R, S | 168 |
| | with LAD T, R, S and sealing cover | 172 |

Connections and Schema

**Wiring**

