# Product datasheet

Specifications



## TeSys D contactor - 4P(4 NO) - AC-1 - <= 440 V 60 A - 220 V DC standard coil

LC1DT60AMD

To be discontinued on: 30 Dec 2027

Discontinued

**EAN Code: 3389118329232**

## Main

| | |
|---|---|
| **Range** | TeSys<br>TeSys Deca |
| **Range of product** | TeSys Deca Advanced |
| **Product or component type** | Contactor |
| **Device short name** | LC1D |
| **Contactor application** | Resistive load |
| **Utilisation category** | AC-1 |
| **Poles description** | 4P |
| **[Ue] rated operational voltage** | Power circuit: <= 690 V AC 25...400 Hz<br>Power circuit: <= 300 V DC |
| **[Ie] rated operational current** | 60 A (at <60 °C) at <= 440 V AC AC-1 for power circuit |
| **[Uc] control circuit voltage** | 220 V DC |

## Complementary

| | |
|---|---|
| **Compatibility code** | LC1D |
| **Pole contact composition** | 4 NO |
| **Protective cover** | With |
| **[Ith] conventional free air thermal current** | 10 A (at 60 °C) for signalling circuit<br>60 A (at 60 °C) for power circuit |
| **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>800 A at 440 V for power circuit conforming to IEC 60947 |
| **Rated breaking capacity** | 800 A at 440 V for power circuit conforming to IEC 60947 |
| **[Icw] rated short-time withstand current** | 320 A 40 °C - 10 s for power circuit<br>720 A 40 °C - 1 s for power circuit<br>72 A 40 °C - 10 min for power circuit<br>165 A 40 °C - 1 min 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>80 A gG at <= 690 V coordination type 1 for power circuit<br>80 A gG at <= 690 V coordination type 2 for power circuit |
| **Average impedance** | 1.6 mOhm - Ith 60 A 50 Hz for power circuit |
| **Power dissipation per pole** | 5.8 W AC-1 |

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

| | |
|---|---|
| **[Ui] rated insulation voltage** | Power circuit: 600 V CSA certified<br>Power circuit: 600 V UL certified<br>Signalling circuit: 690 V conforming to IEC 60947-1<br>Signalling circuit: 600 V CSA certified<br>Signalling circuit: 600 V UL certified<br>Power circuit: 690 V conforming to IEC 60947-4-1 |
| **Overvoltage category** | III |
| **Pollution degree** | 3 |
| **[Uimp] rated impulse withstand voltage** | 6 kV conforming to IEC 60947 |
| **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** | 10 Mcycles |
| **Electrical durability** | 0.7 Mcycles 60 A AC-1 at Ue <= 440 V |
| **Control circuit type** | DC standard |
| **Coil technology** | Built-in bidirectional peak limiting diode suppressor |
| **Control circuit voltage limits** | 0.1...0.3 Uc (-40…70 °C):drop-out DC<br>0.75...1.25 Uc (-40…60 °C):operational DC<br>1...1.25 Uc (60…70 °C):operational DC |
| **Inrush power in W** | 19 W (at 20 °C) |
| **Hold-in power consumption in W** | 7.4 W at 20 °C |
| **Operating time** | 50 ±15 % ms closing<br>16...24 ms opening |
| **Time constant** | 34 ms |
| **Maximum operating rate** | 3600 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…4 mm² - cable stiffness: flexible without cable end<br>Control circuit: screw clamp terminals 2 1…4 mm² - cable stiffness: flexible without cable end<br>Control circuit: screw clamp terminals 1 1…4 mm² - cable stiffness: flexible with cable end<br>Control circuit: screw clamp terminals 1 1…4 mm² - cable stiffness: solid without cable end<br>Control circuit: screw clamp terminals 2 1…4 mm² - cable stiffness: solid without cable end<br>Power circuit: screw clamp terminals 1 1…35 mm² - cable stiffness: flexible without cable end<br>Power circuit: screw clamp terminals 2 1…25 mm² - cable stiffness: flexible without cable end<br>Power circuit: screw clamp terminals 1 1…35 mm² - cable stiffness: flexible with cable end<br>Power circuit: screw clamp terminals 2 1…25 mm² - cable stiffness: flexible with cable end<br>Power circuit: screw clamp terminals 1 1…35 mm² - cable stiffness: solid without cable end<br>Power circuit: screw clamp terminals 2 1…25 mm² - cable stiffness: solid without cable end |
| **Tightening torque** | Control circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver flat Ø 6 mm<br>Control circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver Philips No 2<br>Power circuit: 8 N.m - on EverLink BTR screw connectors - cable 25…35 mm² hexagonal screw head 4 mm<br>Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 1…25 mm² hexagonal screw head 4 mm<br>Control circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver pozidriv No 2<br>Power circuit: 2.5 N.m - on EverLink BTR screw connectors - 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>EN 60947-5-1<br>IEC 60947-4-1<br>IEC 60947-5-1<br>UL 60947-4-1<br>IEC 60335-1 |
| **Product certifications** | GL<br>DNV<br>BV<br>UL<br>RINA<br>CSA<br>CCC<br>GOST<br>LROS (Lloyds register of shipping) |
| **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<br>conforming to IEC 60947-1 Annex Q category D 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 |
| **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 (10 Gn for 11 ms) |
| **Height** | 122 mm |
| **Width** | 70 mm |
| **Depth** | 120 mm |
| **Net weight** | 1.165 kg |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Number of Units in Package 1** | 1 |
| **Package 1 Height** | 8.100 cm |
| **Package 1 Width** | 13.900 cm |
| **Package 1 Length** | 15.500 cm |
| **Package 1 Weight** | 1.148 kg |

## Logistical informations

| | |
|---|---|
| **Country of origin** | FR |

## 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 | **112 kg CO2 eq.** |
| Carbon footprint of the manufacturing phase [A1 to A3] | **6 kg CO2 eq.** |
| Carbon footprint of the distribution phase [A4] | **0.5 kg CO2 eq.** |
| Carbon footprint of the installation phase [A5] | **0.1 kg CO2 eq.** |
| Carbon footprint of the use phase [B2, B3, B4, B6] | **104 kg CO2 eq.** |
| Carbon footprint of the end-of-life phase [C1 to C4] | **2 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** |
| EU RoHS Directive | **Compliant** |
| REACh Regulation | **Free of Substances of Very High Concern above the threshold** |
| PVC free | **Yes** |

## Use Again

### Repack and remanufacture

| | |
|---|---|
| Recyclability potential, in % | **62** |
| 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** |

Image of product / Alternate images

**Alternative**





