# Product data sheet

Specifications



## Contactor, TeSys Deca, 3P(3NO), AC-3/AC-3e, 440V, 95A, 230V AC 50/60Hz coil,screw clamp terminals

LC1D95P7

## Main

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|---|---|
| **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-3e<br>AC-4<br>AC-1 |
| **Poles description** | 3P |
| **[Ue] rated operational voltage** | Power circuit: <= 690 V AC 25...400 Hz |
| **[Ie] rated operational current** | 95 A (at <60 °C) at <= 440 V AC-3 for power circuit<br>125 A (at <60 °C) at <= 1000 V AC-1 for power circuit<br>95 A (at <60 °C) at <= 440 V AC-3e for power circuit |
| **[Uc] control circuit voltage** | 230 V AC 50/60 Hz |

## Complementary

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|---|---|
| **Motor power kW** | 25 kW at 220...230 V AC 50 Hz (AC-3)<br>45 kW at 380...400 V AC 50 Hz (AC-3)<br>45 kW at 415...440 V AC 50 Hz (AC-3)<br>55 kW at 500 V AC 50 Hz (AC-3)<br>45 kW at 660...690 V AC 50 Hz (AC-3)<br>15 kW at 400 V AC 50 Hz (AC-4)<br>25 kW at 220...230 V AC 50 Hz (AC-3e)<br>45 kW at 380...400 V AC 50 Hz (AC-3e)<br>45 kW at 415...440 V AC 50 Hz (AC-3e)<br>55 kW at 500 V AC 50 Hz (AC-3e)<br>45 kW at 660...690 V AC 50 Hz (AC-3e) |
| **Motor power hp** | 7.5 hp at 120 V AC 60 Hz for 1 phase motors<br>15 hp at 230/240 V AC 60 Hz for 1 phase motors<br>30 hp at 200/208 V AC 60 Hz for 3 phases motors<br>30 hp at 230/240 V AC 60 Hz for 3 phases motors<br>60 hp at 460/480 V AC 60 Hz for 3 phases motors<br>60 hp at 575/600 V AC 60 Hz for 3 phases motors |
| **Compatibility code** | LC1D |
| **Pole contact composition** | 3 NO |
| **Protective cover** | With |
| **[Ith] conventional free air thermal current** | 10 A (at 60 °C) for signalling circuit<br>125 A (at 60 °C) for power circuit |
| **Irms rated making capacity** | 1100 A at 440 V AC 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 |

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

| | |
|---|---|
| **Rated breaking capacity** | 1100 A at 440 V for power circuit conforming to IEC 60947 |
| **[Icw] rated short-time withstand current** | 1100 A 40 °C - 1 s for power circuit<br>800 A 40 °C - 10 s for power circuit<br>400 A 40 °C - 1 min for power circuit<br>135 A 40 °C - 10 min for power circuit<br>140 A - 100 ms for signalling circuit<br>120 A - 500 ms for signalling circuit<br>100 A - 1 s for signalling circuit |
| **Associated fuse rating** | 10 A gG for signalling circuit conforming to IEC 60947-5-1<br>200 A gG at <= 690 V coordination type 1 for power circuit<br>160 A gG at <= 690 V coordination type 2 for power circuit |
| **Average impedance** | 0.8 mOhm - Ith 125 A 50 Hz for power circuit |
| **Power dissipation per pole** | 12.5 W AC-1<br>7.2 W AC-3<br>7.2 W AC-3e |
| **[Ui] rated insulation voltage** | Power circuit: 1000 V conforming to IEC 60947-4-1<br>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 |
| **Overvoltage category** | III |
| **Pollution degree** | 3 |
| **[Uimp] rated impulse withstand voltage** | 8 kV conforming to IEC 60947 |
| **Safety reliability level** | B10d = 1.3 Mcycles contactor with nominal load conforming to EN/ISO 13849-1<br>B10d = 20 Mcycles contactor with mechanical load conforming to EN/ISO 13849-1 |
| **Mechanical durability** | 4 Mcycles |
| **Electrical durability** | 1.2 Mcycles 95 A AC-3<br>1.3 Mcycles 125 A AC-1<br>1.2 Mcycles 95 A AC-3e |
| **Control circuit type** | AC at 50/60 Hz standard |
| **Coil technology** | Without built-in suppressor module |
| **Control circuit voltage limits** | 0.8...1.1 Uc (-40…55 °C):operational AC 50 Hz<br>0.85...1.1 Uc (-40…55 °C):operational AC 60 Hz<br>0.3...0.6 Uc (-40…70 °C):drop-out AC 50/60 Hz<br>1...1.1 Uc (55…70 °C):operational AC 50/60 Hz |
| **Inrush power in VA** | 245 VA 60 Hz cos phi 0.75 (at 20 °C)<br>245 VA 50 Hz cos phi 0.75 (at 20 °C) |
| **Hold-in power consumption in VA** | 26 VA 60 Hz cos phi 0.3 (at 20 °C)<br>26 VA 50 Hz cos phi 0.3 (at 20 °C) |
| **Heat dissipation** | 6…10 W at 50/60 Hz |
| **Operating time** | 20...35 ms closing<br>6...20 ms opening |
| **Maximum operating rate** | 3600 cyc/h at 60 °C |

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|---|---|
| **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…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: solid without cable end<br>Control circuit: screw clamp terminals 2 1…4 mm² - cable stiffness: solid without cable end<br>Power circuit: connector 1 4…50 mm² - cable stiffness: flexible without cable end<br>Power circuit: connector 2 4…25 mm² - cable stiffness: flexible without cable end<br>Power circuit: connector 1 4…50 mm² - cable stiffness: flexible with cable end<br>Power circuit: connector 2 4…16 mm² - cable stiffness: flexible with cable end<br>Power circuit: connector 1 4…50 mm² - cable stiffness: solid without cable end<br>Power circuit: connector 2 4…25 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 - with screwdriver flat Ø 6 to Ø 8 mm<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** | Plate<br>Rail |

# Environment

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|---|---|
| **Standards** | EN 60947-4-1<br>EN 60947-5-1<br>IEC 60947-4-1<br>IEC 60947-5-1<br>CSA C22.2 No 14<br>UL 60947-4-1<br>IEC 60335-2-40:Annex JJ<br>UL 60335-2-40:Annex JJ<br>IEC 60335-1:Clause 30.2 |
| **Product certifications** | CCC<br>UL<br>CB Scheme<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 |

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| **Mechanical robustness** | Vibrations contactor open (2 Gn, 5...300 Hz)<br>Shocks contactor open (8 Gn for 11 ms)<br>Vibrations contactor closed (3 Gn, 5...300 Hz)<br>Shocks contactor closed (10 Gn for 11 ms) |
| **Height** | 127 mm |
| **Width** | 85 mm |
| **Depth** | 130 mm |
| **Product weight** | 1.61 kg |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Number of Units in Package 1** | 1 |
| **Package 1 Height** | 13.500 cm |
| **Package 1 Width** | 9.500 cm |
| **Package 1 Length** | 14.000 cm |
| **Package 1 Weight** | 1.567 kg |
| **Unit Type of Package 2** | S02 |
| **Number of Units in Package 2** | 5 |
| **Package 2 Height** | 15.000 cm |
| **Package 2 Width** | 30.000 cm |
| **Package 2 Length** | 40.000 cm |
| **Package 2 Weight** | 8.133 kg |
| **Unit Type of Package 3** | P06 |
| **Number of Units in Package 3** | 80 |
| **Package 3 Height** | 75.000 cm |
| **Package 3 Width** | 60.000 cm |
| **Package 3 Length** | 80.000 cm |
| **Package 3 Weight** | 133.060 kg |

## Contractual warranty

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|---|---|
| **Warranty** | 18 months |

## 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 | 106 |
| 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 |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov |
| PVC free | Yes |

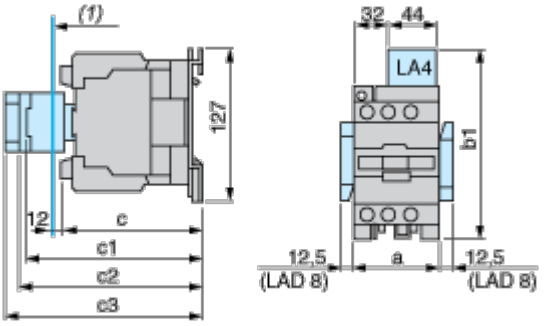
## Use Again

### Repack and remanufacture

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|---|---|
| End of life manual availability | No need of specific recycling operations |
| 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

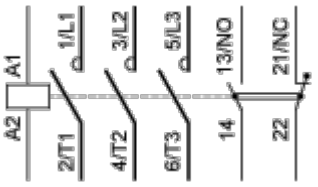



(1) Minimum electrical clearance

| LC1 | | D80 | D95 |
|---|---|---|---|
| **a** | | 85 | 85 |
| **b1** | with LA4 D•2 | 135 | 135 |
| | with LA4 DB3 or LAD 4BB3 | 135 | – |
| | with LA4 DF, DT | 142 | 142 |
| | with LA4 DM, DW, DL | 150 | 150 |
| **c** | without cover or add-on blocks | 125 | 125 |
| | with cover, without add-on blocks | 130 | 130 |
| **c1** | with LAD N (1 contact) | 150 | 150 |
| | with LAD N or C (2 or 4 contacts) | 158 | 158 |
| **c2** | with LA6 DK10, LAD 6DK | 170 | 170 |
| **c3** | with LAD T, R, S | 178 | 178 |
| | with LAD T, R, S and sealing cover | 182 | 182 |

Connections and Schema

**Wiring**



Technical Illustration

**Assembly's dimensions**

