# Product data sheet

Specifications

To be discontinued

## IEC contactor, TeSys Deca, nonreversing, 115A, 75HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 110VAC 50/60Hz coil, open

LC1D115F7

To be discontinued on: Dec 31, 2026

**Product availability: Stock - Normally stocked in distribution facility**

## 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 <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit<br>115 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit<br>115 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit |
| **[Uc] control circuit voltage** | 110 V AC 50/60 Hz |

## Complementary

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| **Motor power kW** | 30 kW at 220...230 V AC 50/60 Hz (AC-3)<br>55 kW at 380...400 V AC 50/60 Hz (AC-3)<br>59 kW at 415...440 V AC 50/60 Hz (AC-3)<br>75 kW at 500 V AC 50/60 Hz (AC-3)<br>80 kW at 660...690 V AC 50/60 Hz (AC-3)<br>65 kW at 1000 V AC 50/60 Hz (AC-3)<br>18.5 kW at 400 V AC 50/60 Hz (AC-4)<br>30 kW at 220...230 V AC 50/60 Hz (AC-3e)<br>55 kW at 380...400 V AC 50/60 Hz (AC-3e)<br>59 kW at 415...440 V AC 50/60 Hz (AC-3e)<br>75 kW at 500 V AC 50/60 Hz (AC-3e)<br>80 kW at 660...690 V AC 50/60 Hz (AC-3e)<br>65 kW at 1000 V AC 50/60 Hz (AC-3e) |
| **Maximum Horse Power Rating** | 30 hp at 200/208 V AC 50/60 Hz for 3 phase motors<br>40 hp at 230/240 V AC 50/60 Hz for 3 phase motors<br>75 hp at 460/480 V AC 50/60 Hz for 3 phase motors<br>100 hp at 575/600 V AC 50/60 Hz for 3 phase motors |
| **Compatibility code** | LC1D |
| **Pole contact composition** | 3 NO |

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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|---|---|
| **Protective cover** | With |
| **[Ith] conventional free air thermal current** | 200 A (at 140 °F (60 °C)) for power circuit |
| **Irms rated making capacity** | 1260 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** | 1100 A at 440 V for power circuit conforming to IEC 60947 |
| **[Icw] rated short-time withstand current** | 250 A 104 °F (40 °C) - 10 min for power circuit<br>550 A 104 °F (40 °C) - 1 min for power circuit<br>950 A 104 °F (40 °C) - 10 s for power circuit<br>1100 A 104 °F (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** | 250 A gG at <= 690 V coordination type 1 for power circuit<br>200 A gG at <= 690 V coordination type 2 for power circuit<br>10 A gG for signalling circuit |
| **Average impedance** | 0.6 mOhm - Ith 200 A 50 Hz for power circuit |
| **Power dissipation per pole** | 24 W AC-1<br>7.9 W AC-3<br>7.9 W AC-3e |
| **[Ui] rated insulation voltage** | Power circuit 600 V CSA<br>Power circuit 600 V UL<br>Power circuit 1000 V IEC 60947-4-1<br>Signalling circuit 690 V IEC 60947-1<br>Signalling circuit 600 V CSA<br>Signalling circuit 600 V UL |
| **Overvoltage category** | III |
| **Pollution degree** | 3 |
| **[Uimp] rated impulse withstand voltage** | 8 kV IEC 60947 |
| **Safety reliability level** | B10d = 684932 cycles contactor with nominal load EN/ISO 13849-1<br>B10d = 10000000 cycles contactor with mechanical load EN/ISO 13849-1 |
| **Mechanical durability** | 8 Mcycles |
| **Electrical durability** | 0.8 Mcycles 200 A AC-1 <= 440 V<br>0.95 Mcycles 115 A AC-3 <= 440 V<br>0.95 Mcycles 115 A AC-3e <= 440 V |
| **Control circuit type** | AC 50/60 Hz standard |
| **Coil technology** | Built-in bidirectional peak limiting diode suppressor |
| **Control circuit voltage limits** | 0.3...0.5 Uc (-40…158 °F (-40…70 °C)):drop-out AC 50/60 Hz<br>0.8...1.15 Uc (-40…131 °F (-40…55 °C)):operational AC 50/60 Hz<br>1...1.15 Uc (131…158 °F (55…70 °C)):operational AC 50/60 Hz |
| **Inrush power in VA** | 280…350 VA 60 Hz cos phi 0.8 (at 68 °F (20 °C))<br>280…350 VA 50 Hz cos phi 0.8 (at 68 °F (20 °C)) |
| **Hold-in power consumption in VA** | 2…18 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C))<br>2…18 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C)) |
| **Heat dissipation** | 3…8 W at 50/60 Hz |
| **Operating time** | 6...20 ms opening<br>20...50 ms closing |
| **Maximum operating rate** | 2400 cyc/h at 60 °C |

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|---|---|
| **Connections - terminals** | Control circuit: screw clamp terminals 2 0.002…0.004 in² (1…2.5 mm²) - cable stiffness: flexible with cable end<br>Control circuit: screw clamp terminals 1 0.002…0.004 in² (1…2.5 mm²) - cable stiffness: flexible with cable end<br>Control circuit: screw clamp terminals 1 0.002…0.004 in² (1…2.5 mm²) - cable stiffness: flexible without cable end<br>Control circuit: screw clamp terminals 2 0.002…0.004 in² (1…2.5 mm²) - cable stiffness: flexible without cable end<br>Control circuit: screw clamp terminals 1 0.002…0.004 in² (1…2.5 mm²) - cable stiffness: solid without cable end<br>Control circuit: screw clamp terminals 2 0.002…0.004 in² (1…2.5 mm²) - cable stiffness: solid without cable end<br>Power circuit: connector 1 0.02…0.2 in² (10…120 mm²) - cable stiffness: flexible without cable end<br>Power circuit: connector 2 0.02…0.08 in² (10…50 mm²) - cable stiffness: flexible without cable end<br>Power circuit: connector 1 0.02…0.2 in² (10…120 mm²) - cable stiffness: flexible with cable end<br>Power circuit: connector 2 0.02…0.08 in² (10…50 mm²) - cable stiffness: flexible with cable end<br>Power circuit: connector 1 0.02…0.2 in² (10…120 mm²) - cable stiffness: solid without cable end<br>Power circuit: connector 2 0.02…0.08 in² (10…50 mm²) - cable stiffness: solid without cable end |
| **Tightening torque** | Control circuit 10.6 lbf.in (1.2 N.m) screw clamp terminals flat Ø 6 mm<br>Control circuit 10.6 lbf.in (1.2 N.m) screw clamp terminals Philips No 2<br>Power circuit 106.2 lbf.in (12 N.m) connector hexagonal 0.2 in (4 mm)<br>Control circuit 10.6 lbf.in (1.2 N.m) screw clamp terminals pozidriv No 2 |
| **Auxiliary contact composition** | 1 NO + 1 NC |
| **Auxiliary contacts type** | Mechanically linked 1 NO + 1 NC IEC 60947-5-1<br>Mirror contact 1 NC 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

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|---|---|
| **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>CSA<br>CCC<br>UKCA<br>CE<br>EAC<br>Marine |
| **IP degree of protection** | IP20 front face IEC 60529 |
| **Protective treatment** | THIEC 60068-2-30 |
| **Climatic withstand** | IACS E10 exposure to damp heat<br>IEC 60947-1 Annex Q category D exposure to damp heat |
| **Permissible ambient air temperature around the device** | -40…140 °F (-40…60 °C)<br>140…158 °F (60…70 °C) with derating |

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| **Operating altitude** | 0...9842.52 ft (0...3000 m) |
| **Fire resistance** | 1562 °F (850 °C) 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** | 6.2 in (158 mm) |
| **Width** | 4.7 in (120 mm) |
| **Depth** | 5.4 in (136 mm) |
| **Net Weight** | 5.5 lb(US) (2.5 kg) |

## Ordering and shipping details

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|---|---|
| **Category** | US10I1222359 |
| **Discount Schedule** | 0I12 |
| **GTIN** | 3389110377088 |
| **Returnability** | Yes |
| **Country of origin** | CZ |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Nbr. of units in pkg.** | 1 |
| **Package 1 Height** | 7.68 in (19.500 cm) |
| **Package 1 Width** | 6.89 in (17.500 cm) |
| **Package 1 Length** | 8.46 in (21.500 cm) |
| **Package weight(Lbs)** | 5.501 lb(US) (2.495 kg) |
| **Unit Type of Package 2** | P06 |
| **Number of Units in Package 2** | 27 |
| **Package 2 Height** | 29.53 in (75.000 cm) |
| **Package 2 Width** | 23.62 in (60.000 cm) |
| **Package 2 Length** | 31.50 in (80.000 cm) |
| **Package 2 Weight** | 177.056 lb(US) (80.311 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

| | |
|---|---|
| Carbon footprint (kg CO2 eq, Total Life cycle) | 111 |
| 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 with Exemptions |
| SCIP Number | A530c666-91dd-4119-8d61-f1c22a361ecb |
| REACh Regulation | REACh Declaration |
| 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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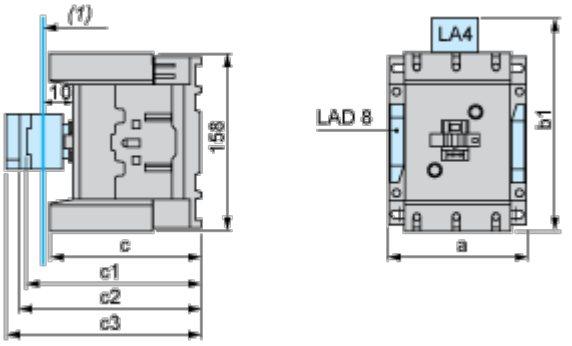
|---|---|
| Circularity Profile | End of Life Information |
| Take-back | No |
| WEEE Label | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |

## Dimensions Drawings

### Dimensions

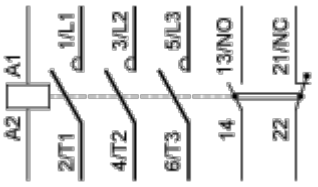



(1) Minimum electrical clearance

| 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**



Technical Illustration

**Assembly's dimensions**