

# Product data sheet

Specifications



IEC contactor, TeSys Deca,  
nonreversing, 95A, 60HP at  
480VAC, 3 phase, 3 pole, 3 NO,  
110VAC 50/60Hz coil, open style

LC1D95F7

Product availability: Stock - Normally stocked in distribution facility

Price\*: 437.00 USD

## Main

|                                |   |
|--------------------------------|---|
| Range                          | TeSys   |
| Range of Product               | TeSys Deca  |
| Product or Component Type      | Contactors  |
| Device short name              | LC1D  |
| Contactors application         | Motor control<br>Resistive load   |
| 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 <140 °F (60 °C)) at <= 440 V AC-3 for power circuit<br>125 A (at <140 °F (60 °C)) at <= 1000 V AC-1 for power circuit<br>95 A (at <140 °F (60 °C)) at <= 440 V AC-3e for power circuit |
| [Uc] control circuit voltage   | 110 V AC 50/60 Hz   |

## Complementary

|   |   |
|---|---|
| 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) |
| Maximum Horse Power Rating                  | 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 phase motors<br>30 hp at 230/240 V AC 60 Hz for 3 phase motors<br>60 hp at 460/480 V AC 60 Hz for 3 phase motors<br>60 hp at 575/600 V AC 60 Hz for 3 phase motors   |
| Compatibility code                          | LC1D  |
| Pole contact composition                    | 3 NO  |
| Protective cover                            | With  |
| [Ith] conventional free air thermal current | 10 A (at 140 °F (60 °C)) for signalling circuit<br>125 A (at 140 °F (60 °C)) for power circuit  |

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

|   |   |
|---|---|
| <b>Irms rated making capacity</b>               | 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  |
| <b>Rated breaking capacity</b>                  | 1100 A at 440 V for power circuit conforming to IEC 60947   |
| <b>[Icw] rated short-time withstand current</b> | 1100 A 104 °F (40 °C) - 1 s for power circuit<br>800 A 104 °F (40 °C) - 10 s for power circuit<br>400 A 104 °F (40 °C) - 1 min for power circuit<br>135 A 104 °F (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 |
| <b>Associated fuse rating</b>                   | 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  |
| <b>Average impedance</b>                        | 0.8 mOhm - Ith 125 A 50 Hz for power circuit  |
| <b>Power dissipation per pole</b>               | 12.5 W AC-1<br>7.2 W AC-3<br>7.2 W AC-3e  |
| <b>[Ui] rated insulation voltage</b>            | Power circuit 1000 V IEC 60947-4-1<br>Power circuit 600 V CSA<br>Power circuit 600 V UL<br>Signalling circuit 690 V IEC 60947-1<br>Signalling circuit 600 V CSA<br>Signalling circuit 600 V UL  |
| <b>overvoltage category</b>                     | III   |
| <b>pollution degree</b>                         | 3   |
| <b>[Uimp] rated impulse withstand voltage</b>   | 8 kV IEC 60947  |
| <b>Safety reliability level</b>                 | B10d = 1.3 Mcycles contactor with nominal load EN/ISO 13849-1<br>B10d = 20 Mcycles contactor with mechanical load EN/ISO 13849-1  |
| <b>Mechanical durability</b>                    | 4 Mcycles   |
| <b>Electrical durability</b>                    | 1.2 Mcycles 95 A AC-3<br>1.3 Mcycles 125 A AC-1<br>1.2 Mcycles 95 A AC-3e   |
| <b>Control circuit type</b>                     | AC 50/60 Hz standard  |
| <b>Coil technology</b>                          | Without built-in suppressor module  |
| <b>Control circuit voltage limits</b>           | 0.8...1.1 Uc (-40...131 °F (-40...55 °C)):operational AC 50 Hz<br>0.85...1.1 Uc (-40...131 °F (-40...55 °C)):operational AC 60 Hz<br>0.3...0.6 Uc (-40...158 °F (-40...70 °C)):drop-out AC 50/60 Hz<br>1...1.1 Uc (131...158 °F (55...70 °C)):operational AC 50/60 Hz   |
| <b>Inrush power in VA</b>                       | 245 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C))<br>245 VA 50 Hz cos phi 0.75 (at 68 °F (20 °C))  |
| <b>Hold-in power consumption in VA</b>          | 26 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C))<br>26 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C))  |
| <b>Heat dissipation</b>                         | 6...10 W at 50/60 Hz  |
| <b>Operating time</b>                           | 20...35 ms closing<br>6...20 ms opening   |
| <b>Maximum operating rate</b>                   | 3600 cyc/h at 60 °C   |

|                                      |  |
|--------------------------------------|--|
| <b>Connections - terminals</b>       | Control circuit: screw clamp terminals 2 0.002...0.004 in <sup>2</sup> (1...2.5 mm <sup>2</sup> ) - cable stiffness: flexible with cable end<br>Control circuit: screw clamp terminals 1 0.002...0.004 in <sup>2</sup> (1...2.5 mm <sup>2</sup> ) - cable stiffness: flexible with cable end<br>Control circuit: screw clamp terminals 1 0.002...0.006 in <sup>2</sup> (1...4 mm <sup>2</sup> ) - cable stiffness: flexible without cable end<br>Control circuit: screw clamp terminals 2 0.002...0.006 in <sup>2</sup> (1...4 mm <sup>2</sup> ) - cable stiffness: flexible without cable end<br>Control circuit: screw clamp terminals 1 0.002...0.006 in <sup>2</sup> (1...4 mm <sup>2</sup> ) - cable stiffness: solid without cable end<br>Control circuit: screw clamp terminals 2 0.002...0.006 in <sup>2</sup> (1...4 mm <sup>2</sup> ) - cable stiffness: solid without cable end<br>Power circuit: connector 1 0.006...0.08 in <sup>2</sup> (4...50 mm <sup>2</sup> ) - cable stiffness: flexible without cable end<br>Power circuit: connector 2 0.006...0.04 in <sup>2</sup> (4...25 mm <sup>2</sup> ) - cable stiffness: flexible without cable end<br>Power circuit: connector 1 0.006...0.08 in <sup>2</sup> (4...50 mm <sup>2</sup> ) - cable stiffness: flexible with cable end<br>Power circuit: connector 2 0.006...0.02 in <sup>2</sup> (4...16 mm <sup>2</sup> ) - cable stiffness: flexible with cable end<br>Power circuit: connector 1 0.006...0.08 in <sup>2</sup> (4...50 mm <sup>2</sup> ) - cable stiffness: solid without cable end<br>Power circuit: connector 2 0.006...0.04 in <sup>2</sup> (4...25 mm <sup>2</sup> ) - cable stiffness: solid without cable end |
| <b>Tightening torque</b>             | 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 flat Ø 6 to Ø 8 mm<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  |
| <b>Auxiliary contact composition</b> | 1 NO + 1 NC  |
| <b>Auxiliary contacts type</b>       | Mechanically linked 1 NO + 1 NC IEC 60947-5-1<br>Mirror contact 1 NC IEC 60947-4-1   |
| <b>Signalling circuit frequency</b>  | 25...400 Hz  |
| <b>Minimum switching voltage</b>     | 17 V for signalling circuit  |
| <b>Minimum switching current</b>     | 5 mA for signalling circuit  |
| <b>Insulation resistance</b>         | > 10 MOhm for signalling circuit   |
| <b>Non-overlap time</b>              | 1.5 ms on de-energisation between NC and NO contact<br>1.5 ms on energisation between NC and NO contact  |
| <b>Mounting Support</b>              | Rail<br>Plate  |

## Environment

|                                |   |
|--------------------------------|---|
| <b>Standards</b>               | 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 |
| <b>Product Certifications</b>  | CCC<br>UL<br>CB Scheme<br>CSA<br>CE<br>UKCA<br>Marine<br>EAC  |
| <b>IP degree of protection</b> | IP20 front face IEC 60529   |
| <b>Protective treatment</b>    | THIEC 60068-2-30  |
| <b>Climatic withstand</b>      | IACS E10 exposure to damp heat  |

|  |   |
|--|---|
| <b>Permissible ambient air temperature around the device</b> | -40...140 °F (-40...60 °C)<br>140...158 °F (60...70 °C) with derating   |
| <b>Operating altitude</b>                                    | 0...9842.52 ft (0...3000 m)   |
| <b>Fire resistance</b>                                       | 1562 °F (850 °C) IEC 60695-2-1  |
| <b>Flame retardance</b>                                      | V1 conforming to UL 94  |
| <b>Mechanical robustness</b>                                 | 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) |
| <b>Height</b>  | 5.000000000 in (127 mm)   |
| <b>Width</b>   | 3.3 in (85 mm)  |
| <b>Depth</b>   | 5.1 in (130 mm)   |
| <b>Net Weight</b>  | 3.55 lb(US) (1.61 kg)   |

## Ordering and shipping details

|                          |               |
|--------------------------|---------------|
| <b>Category</b>          | US10I1222359  |
| <b>Discount Schedule</b> | 0I12          |
| <b>GTIN</b>              | 3389110451177 |
| <b>Returnability</b>     | Yes           |
| <b>Country of origin</b> | CZ            |

## Packing Units

|                                     |                             |
|-------------------------------------|-----------------------------|
| <b>Unit Type of Package 1</b>       | PCE                         |
| <b>Number of Units in Package 1</b> | 1                           |
| <b>Package 1 Height</b>             | 5.51 in (14.000 cm)         |
| <b>Package 1 Width</b>              | 5.31 in (13.500 cm)         |
| <b>Package 1 Length</b>             | 3.94 in (10.000 cm)         |
| <b>Package 1 Weight</b>             | 3.426 lb(US) (1.554 kg)     |
| <b>Unit Type of Package 2</b>       | S02                         |
| <b>Number of Units in Package 2</b> | 5                           |
| <b>Package 2 Height</b>             | 5.91 in (15.000 cm)         |
| <b>Package 2 Width</b>              | 11.81 in (30.000 cm)        |
| <b>Package 2 Length</b>             | 15.75 in (40.000 cm)        |
| <b>Package 2 Weight</b>             | 17.880 lb(US) (8.110 kg)    |
| <b>Unit Type of Package 3</b>       | P06                         |
| <b>Number of Units in Package 3</b> | 80                          |
| <b>Package 3 Height</b>             | 29.53 in (75.000 cm)        |
| <b>Package 3 Width</b>              | 23.62 in (60.000 cm)        |
| <b>Package 3 Length</b>             | 31.50 in (80.000 cm)        |
| <b>Package 3 Weight</b>             | 294.758 lb(US) (133.700 kg) |

## Contractual warranty

|                 |           |
|-----------------|-----------|
| <b>Warranty</b> | 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) | 62  |
| Environmental Disclosure                       | <a href="#">Product Environmental Profile</a> |

### Use Better

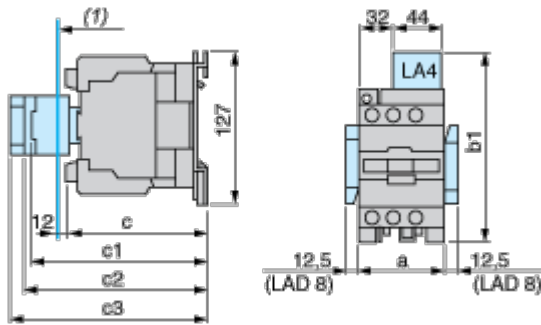
| Materials and Substances               |  |
|--|--|
| Packaging made with recycled cardboard | Yes  |
| Packaging without single use plastic   | Yes  |
| <a href="#">EU RoHS Directive</a>      | Compliant  |
| REACH Regulation                       | <a href="#">REACH Declaration</a>  |
| China RoHS Regulation                  | <a href="#">China RoHS declaration</a>   |
| California proposition 65              | <b>WARNING: This product can expose you to chemicals including: Antimony oxide &amp; Antimony trioxide, which is known to the State of California to cause cancer. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a></b> |
| PVC free                               | Yes  |

### Use Again

| Repack and remanufacture |  |
|--------------------------|--|
| Circularity Profile      | No need of specific recycling operations   |
| WEEE                     |  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |
| Take-back                | No   |

Dimensions Drawings

Dimensions



(1) Minimum electrical clearance

| LC1       |                                    | D80 | D95 |
|-----------|------------------------------------|-----|-----|
| <b>a</b>  |                                    | 85  | 85  |
| <b>b1</b> | 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 |
| <b>c</b>  | without cover or add-on blocks     | 125 | 125 |
|           | with cover, without add-on blocks  | 130 | 130 |
| <b>c1</b> | with LAD N (1 contact)             | 150 | 150 |
|           | with LAD N or C (2 or 4 contacts)  | 158 | 158 |
| <b>c2</b> | with LA6 DK10, LAD 6DK             | 170 | 170 |
| <b>c3</b> | with LAD T, R, S                   | 178 | 178 |
|           | with LAD T, R, S and sealing cover | 182 | 182 |

Connections and Schema

Wiring

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