

# Product data sheet

Specifications



IEC contactor, TeSys Deca, nonreversing, 115A, 75HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 240VAC 50/60Hz coil, open

LC1D115U7

Product availability: Stock - Normally stocked in distribution facility

**Price\*: 479.00 USD**

## Main

|                                |                                                                                                                                                                                                           |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                          | TeSys                                                                                                                                                                                                     |
| Range of Product               | TeSys Deca                                                                                                                                                                                                |
| Product or Component Type      | Contactors                                                                                                                                                                                                |
| Device short name              | LC1D                                                                                                                                                                                                      |
| contactor application          | Motor control<br>Resistive load                                                                                                                                                                           |
| Utilisation category           | AC-3<br>AC-1<br>AC-4<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   | 240 V AC 50/60 Hz                                                                                                                                                                                         |

## Complementary

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Protective cover           | With                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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

|                                                    |                                                                                                                                                                                                                                                                                                                             |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>[Ith] conventional free air thermal current</b> | 200 A (at 140 °F (60 °C)) for power circuit                                                                                                                                                                                                                                                                                 |
| <b>Irms rated making capacity</b>                  | 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                                                                                                                                     |
| <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>    | 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 |
| <b>Associated fuse rating</b>                      | 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                                                                                                                                                                  |
| <b>Average impedance</b>                           | 0.6 mOhm - Ith 200 A 50 Hz for power circuit                                                                                                                                                                                                                                                                                |
| <b>Power dissipation per pole</b>                  | 24 W AC-1<br>7.9 W AC-3<br>7.9 W AC-3e                                                                                                                                                                                                                                                                                      |
| <b>[Ui] rated insulation voltage</b>               | 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                                                                                                                              |
| <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 = 684932 cycles contactor with nominal load EN/ISO 13849-1<br>B10d = 10000000 cycles contactor with mechanical load EN/ISO 13849-1                                                                                                                                                                                     |
| <b>Mechanical durability</b>                       | 8 Mcycles                                                                                                                                                                                                                                                                                                                   |
| <b>Electrical durability</b>                       | 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                                                                                                                                                                                                                    |
| <b>Control circuit type</b>                        | AC 50/60 Hz                                                                                                                                                                                                                                                                                                                 |
| <b>Coil technology</b>                             | Built-in bidirectional peak limiting diode suppressor                                                                                                                                                                                                                                                                       |
| <b>Control circuit voltage limits</b>              | 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                                                                                                                           |
| <b>Inrush power in VA</b>                          | 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))                                                                                                                                                                                                                      |
| <b>Hold-in power consumption in VA</b>             | 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))                                                                                                                                                                                                                            |
| <b>Heat dissipation</b>                            | 3...8 W at 50/60 Hz                                                                                                                                                                                                                                                                                                         |
| <b>Operating time</b>                              | 6...20 ms opening<br>20...50 ms closing                                                                                                                                                                                                                                                                                     |
| <b>Maximum operating rate</b>                      | 2400 cyc/h 140 °F (60 °C)                                                                                                                                                                                                                                                                                                   |
| <b>Maximum operating rate</b>                      | 2400 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...0.004 in <sup>2</sup> (1...2.5 mm <sup>2</sup> ) - cable stiffness: flexible without cable end<br>Control circuit: screw clamp terminals 2 0.002...0.004 in <sup>2</sup> (1...2.5 mm <sup>2</sup> ) - cable stiffness: flexible without 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: solid without cable end<br>Control circuit: screw clamp terminals 2 0.002...0.004 in <sup>2</sup> (1...2.5 mm <sup>2</sup> ) - cable stiffness: solid without cable end<br>Power circuit: connector 1 0.02...0.2 in <sup>2</sup> (10...120 mm <sup>2</sup> ) - cable stiffness: flexible without cable end<br>Power circuit: connector 2 0.02...0.08 in <sup>2</sup> (10...50 mm <sup>2</sup> ) - cable stiffness: flexible without cable end<br>Power circuit: connector 1 0.02...0.2 in <sup>2</sup> (10...120 mm <sup>2</sup> ) - cable stiffness: flexible with cable end<br>Power circuit: connector 2 0.02...0.08 in <sup>2</sup> (10...50 mm <sup>2</sup> ) - cable stiffness: flexible with cable end<br>Power circuit: connector 1 0.02...0.2 in <sup>2</sup> (10...120 mm <sup>2</sup> ) - cable stiffness: solid without cable end<br>Power circuit: connector 2 0.02...0.08 in <sup>2</sup> (10...50 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 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>              | Plate<br>Rail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## Environment

|                                                              |                                                                                                                                                                                             |
|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Standards</b>                                             | 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 |
| <b>Product Certifications</b>                                | UL<br>CSA<br>CCC<br>UKCA<br>CE<br>EAC<br>Marine                                                                                                                                             |
| <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<br>IEC 60947-1 Annex Q category D 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>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) |
| <b>Height</b>                | 6.2 in (158 mm)                                                                                                                                                                   |
| <b>Width</b>                 | 4.7 in (120 mm)                                                                                                                                                                   |
| <b>Depth</b>                 | 5.4 in (136 mm)                                                                                                                                                                   |
| <b>Net Weight</b>            | 5.5 lb(US) (2.5 kg)                                                                                                                                                               |

## Ordering and shipping details

|                          |               |
|--------------------------|---------------|
| <b>Category</b>          | US1011222359  |
| <b>Discount Schedule</b> | 0112          |
| <b>GTIN</b>              | 3389110377767 |
| <b>Returnability</b>     | Yes           |
| <b>Country of origin</b> | MX            |

## Packing Units

|                                     |                            |
|-------------------------------------|----------------------------|
| <b>Unit Type of Package 1</b>       | PCE                        |
| <b>Number of Units in Package 1</b> | 1                          |
| <b>Package 1 Height</b>             | 7.480 in (19.000 cm)       |
| <b>Package 1 Width</b>              | 6.890 in (17.500 cm)       |
| <b>Package 1 Length</b>             | 8.465 in (21.500 cm)       |
| <b>Package 1 Weight</b>             | 5.443 lb(US) (2.469 kg)    |
| <b>Unit Type of Package 2</b>       | P06                        |
| <b>Number of Units in Package 2</b> | 27                         |
| <b>Package 2 Height</b>             | 29.528 in (75.000 cm)      |
| <b>Package 2 Width</b>              | 23.622 in (60.000 cm)      |
| <b>Package 2 Length</b>             | 31.496 in (80.000 cm)      |
| <b>Package 2 Weight</b>             | 175.627 lb(US) (79.663 kg) |

## Contractual warranty

|                 |           |
|-----------------|-----------|
| <b>Warranty</b> | 18 months |
|-----------------|-----------|

## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.


[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)




Sustainable Packaging Transparency RoHS/REACH

## Resource performance

 Sustainable Packaging

## Well-being performance

 Mercury Free

 Rohs Exemption Information Yes

 Pvc Free

## Certifications & Standards

Reach Regulation [REACH Declaration](#)

Eu Rohs Directive Compliant with Exemptions

China Rohs Regulation [China RoHS declaration](#)  
Product out of China RoHS scope. Substance declaration for your information.

Environmental Disclosure [Product Environmental Profile](#)

Weee The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Circularity Profile [End of Life Information](#)

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](http://www.P65Warnings.ca.gov)