# Product datasheet

Specifications

Green Premium™

## TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 65 A - 125 V DC standard coil

LC1D65A3GD

Discontinued on: 10 Oct 2020

Discontinued

**EAN Code: 3389118328709**

## Main

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|---|---|
| **Range** | TeSys |
| **Range Of Product** | TeSys Deca |
| **Product Or Component Type** | Contactor |
| **Device Short Name** | LC1D |
| **Contactor Application** | Motor control<br>Resistive load |
| **Utilisation Category** | AC-1<br>AC-4<br>AC-3 |
| **Poles Description** | 3P |
| **[Ue] Rated Operational Voltage** | Power circuit: <= 690 V AC 25...400 Hz<br>Power circuit: <= 300 V DC |
| **[Ie] Rated Operational Current** | 80 A (at <60 °C) at <= 440 V AC AC-1 for power circuit<br>65 A (at <60 °C) at <= 440 V AC AC-3 for power circuit |
| **[Uc] Control Circuit Voltage** | 125 V DC |

## Complementary

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| **Motor Power Kw** | 11 kW at 400 V AC 50/60 Hz (AC-4)<br>18.5 kW at 220...230 V AC 50/60 Hz (AC-3)<br>30 kW at 380...400 V AC 50/60 Hz (AC-3)<br>37 kW at 500 V AC 50/60 Hz (AC-3)<br>37 kW at 660...690 V AC 50/60 Hz (AC-3) |
| **Motor Power Hp** | 40 hp at 460/480 V AC 50/60 Hz for 3 phases motors<br>5 hp at 115 V AC 50/60 Hz for 1 phase motors<br>10 hp at 230/240 V AC 50/60 Hz for 1 phase motors<br>20 hp at 200/208 V AC 50/60 Hz for 3 phases motors<br>20 hp at 230/240 V AC 50/60 Hz for 3 phases motors<br>50 hp at 575/600 V AC 50/60 Hz for 3 phases motors |
| **Compatibility Code** | LC1D |
| **Pole Contact Composition** | 3 NO |
| **Contact Compatibility** | M4 |
| **Protective Cover** | With |
| **[Ith] Conventional Free Air Thermal Current** | 10 A (at 60 °C) for signalling circuit<br>80 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>1000 A at 440 V for power circuit conforming to IEC 60947 |
| **Rated Breaking Capacity** | 1000 A at 440 V for power circuit conforming to IEC 60947 |

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

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| **[Icw] Rated Short-Time Withstand Current** | 640 A 40 °C - 10 s for power circuit<br>900 A 40 °C - 1 s for power circuit<br>110 A 40 °C - 10 min for power circuit<br>260 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>125 A gG at <= 690 V coordination type 1 for power circuit<br>125 A gG at <= 690 V coordination type 2 for power circuit |
| **Average Impedance** | 1.5 mOhm - Ith 80 A 50 Hz for power circuit |
| **Power Dissipation Per Pole** | 9.6 W AC-1<br>6.3 W AC-3 |
| **[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** | 0.5 Mcycles 80 A AC-1 at Ue <= 440 V<br>1.45 Mcycles 65 A AC-3 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 60 °C |
| **Connections - Terminals** | Power circuit: EverLink BTR screw connectors 1 1…35 mm² - cable stiffness: flexible without cable end<br>Power circuit: EverLink BTR screw connectors 2 1…25 mm² - cable stiffness: flexible without cable end<br>Power circuit: EverLink BTR screw connectors 1 1…35 mm² - cable stiffness: flexible with cable end<br>Power circuit: EverLink BTR screw connectors 2 1…25 mm² - cable stiffness: flexible with cable end<br>Power circuit: EverLink BTR screw connectors 1 1…35 mm² - cable stiffness: solid without cable end<br>Power circuit: EverLink BTR screw connectors 2 1…25 mm² - cable stiffness: solid without cable end<br>Control circuit: spring terminals 1 2.5 mm² - cable stiffness: flexible without cable end<br>Control circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end |
| **Tightening Torque** | 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 |
| **Auxiliary Contact Composition** | 1 NO + 1 NC |

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| **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** | 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 508 |
| **Product Certifications** | CCC<br>UL<br>GOST<br>CSA |
| **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 |
| **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 (10 Gn for 11 ms) |
| **Height** | 122 mm |
| **Width** | 55 mm |
| **Depth** | 120 mm |
| **Net Weight** | 0.935 kg |

## Packing Units

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| **Unit Type Of Package 1** | PCE |
| **Number Of Units In Package 1** | 1 |
| **Package 1 Height** | 6 cm |
| **Package 1 Width** | 14 cm |
| **Package 1 Length** | 15 cm |
| **Package 1 Weight** | 850 g |

## Contractual warranty

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|---|---|
| **Warranty** | 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-$CO_2$ 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 >

Transparency RoHS/REACh

## Well-being performance

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|---|---|
| Reach Free Of Svhc | |
| Toxic Heavy Metal Free | |
| Mercury Free | |
| Rohs Exemption Information | Yes |
| Pvc Free | |

## Certifications & Standards

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|---|---|
| **Eu Rohs Directive** | Compliant<br>EU RoHS Declaration |
| **China Rohs Regulation** | China RoHS declaration<br>Pro-active China RoHS declaration (out of China RoHS legal scope) |
| **Environmental Disclosure** | Product Environmental Profile |
| **Circularity Profile** | End of Life Information |