# Product data sheet

Specifications



## IEC contactor, TeSys Deca, nonreversing, 80A resistive, 4 pole, 2 NO and 2 NC, 120VAC 60Hz coil, open style

LC1D65008G6

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

## Main

| | |
|---|---|
| **Range** | TeSys |
| **Range of Product** | TeSys Deca Advanced |
| **Product or Component Type** | Contactor |
| **Device short name** | LC1D |
| **Contactor application** | Resistive load |
| **Utilisation category** | AC-1 |
| **Poles description** | 4P |
| **[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 <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit |
| **[Uc] control circuit voltage** | 120 V AC 60 Hz |

## Complementary

| | |
|---|---|
| **Compatibility code** | LC1D |
| **Pole contact composition** | 2 NO + 2 NC |
| **Protective cover** | Without |
| **[Ith] conventional free air thermal current** | 80 A (at 140 °F (60 °C)) for power circuit |
| **Irms rated making capacity** | 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 |
| **[Icw] rated short-time withstand current** | 520 A 104 °F (40 °C) - 10 s for power circuit<br>900 A 104 °F (40 °C) - 1 s for power circuit<br>110 A 104 °F (40 °C) - 10 min for power circuit<br>260 A 104 °F (40 °C) - 1 min for power circuit |
| **Associated fuse rating** | 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 |
| **[Ui] rated insulation voltage** | Power circuit 600 V CSA<br>Power circuit 600 V UL<br>Power circuit 690 V IEC 60947-4-1 |
| **Overvoltage category** | III |
| **Pollution degree** | 3 |
| **[Uimp] rated impulse withstand voltage** | 6 kV IEC 60947 |

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

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

| | |
|---|---|
| **Safety reliability level** | B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1<br>B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 |
| **Mechanical durability** | 6 Mcycles |
| **Electrical durability** | 1.4 Mcycles 80 A AC-1 <= 440 V |
| **Control circuit type** | AC 60 Hz |
| **Coil technology** | Without built-in suppressor module |
| **Control circuit voltage limits** | 0.85...1.1 Uc (-40…140 °F (-40…60 °C)):operational AC 60 Hz<br>0.3...0.6 Uc (-40…158 °F (-40…70 °C)):drop-out AC 60 Hz<br>1...1.1 Uc (140…158 °F (60…70 °C)):operational AC 60 Hz |
| **Inrush power in VA** | 140 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C)) |
| **Hold-in power consumption in VA** | 13 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) |
| **Heat dissipation** | 4…5 W at 60 Hz |
| **Operating time** | 4...19 ms opening<br>12...26 ms closing |
| **Maximum operating rate** | 3600 cyc/h at 60 °C |
| **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…0.006 in² (1…4 mm²) - cable stiffness: flexible without cable end<br>Control circuit: screw clamp terminals 2 0.002…0.006 in² (1…4 mm²) - cable stiffness: flexible without cable end<br>Control circuit: screw clamp terminals 1 0.002…0.006 in² (1…4 mm²) - cable stiffness: flexible with cable end<br>Control circuit: screw clamp terminals 1 0.002…0.006 in² (1…4 mm²) - cable stiffness: solid without cable end<br>Control circuit: screw clamp terminals 2 0.002…0.006 in² (1…4 mm²) - cable stiffness: solid without cable end<br>Power circuit: screw clamp terminals 1 0.002…0.05 in² (1…35 mm²) - cable stiffness: flexible without cable end<br>Power circuit: screw clamp terminals 2 0.002…0.04 in² (1…25 mm²) - cable stiffness: flexible without cable end<br>Power circuit: screw clamp terminals 1 0.002…0.05 in² (1…35 mm²) - cable stiffness: flexible with cable end<br>Power circuit: screw clamp terminals 2 0.002…0.04 in² (1…25 mm²) - cable stiffness: flexible with cable end<br>Power circuit: screw clamp terminals 1 0.002…0.05 in² (1…35 mm²) - cable stiffness: solid without cable end<br>Power circuit: screw clamp terminals 2 0.002…0.04 in² (1…25 mm²) - cable stiffness: solid without cable end |
| **Tightening torque** | Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm<br>Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2<br>Power circuit 70.8 lbf.in (8 N.m) screw clamp terminals 0.04…0.05 in² (25…35 mm²) hexagonal 0.2 in (4 mm)<br>Power circuit 44.3 lbf.in (5 N.m) screw clamp terminals 0.002…0.04 in² (1…25 mm²) hexagonal 0.2 in (4 mm)<br>Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2 |
| **Mounting Support** | Rail<br>Plate |

# 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 60947-4-1 |

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|---|---|
| **Product Certifications** | BV<br>CSA<br>CCC<br>RINA<br>LROS (Lloyds register of shipping)<br>UL<br>GOST<br>GL<br>DNV |
| **IP degree of protection** | IP20 front face IEC 60529 |
| **Protective treatment** | THIEC 60068-2-30 |
| **Climatic withstand** | IACS E10 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 |
| **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** | Shocks contactor open 8 Gn for 11 ms)<br>Shocks contactor closed 10 Gn for 11 ms)<br>Vibrations contactor opened 2 Gn, 5...300 Hz)<br>Vibrations contactor closed 3 Gn, 5...300 Hz) |
| **Height** | 5 in (127 mm) |
| **Width** | 3.3 in (85 mm) |
| **Depth** | 4.9 in (125 mm) |
| **Net Weight** | 3.20 lb(US) (1.45 kg) |

## Ordering and shipping details

| | |
|---|---|
| **Category** | US1CTR121252 |
| **Discount Schedule** | CTR1 |
| **GTIN** | 3389110072945 |
| **Returnability** | Yes |
| **Country of origin** | CZ |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Nbr. of units in pkg.** | 1 |
| **Package 1 Height** | 5.1 in (13.0 cm) |
| **Package 1 Width** | 3.7 in (9.5 cm) |
| **Package 1 Length** | 5.3 in (13.5 cm) |
| **Package weight(Lbs)** | 3.22 lb(US) (1.46 kg) |

## Contractual warranty

| | |
|---|---|
| **Warranty (in months)** | 18 |

## 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 | **70 kg CO2 eq.** |
| Carbon footprint of the manufacturing phase [A1 to A3] | **9 kg CO2 eq.** |
| Carbon footprint of the distribution phase [A4] | **0.2 kg CO2 eq.** |
| Carbon footprint of the installation phase [A5] | **0.3 kg CO2 eq.** |
| Carbon footprint of the use phase [B2, B3, B4, B6] | **57 kg CO2 eq.** |
| Carbon footprint of the end-of-life phase [C1 to C4] | **3 kg CO2 eq.** |
| 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** |
| REACh Regulation | **Free of Substances of Very High Concern above the threshold** |
| 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

| | |
|---|---|
| Recyclability potential, in % | **76** |
| Circularity Profile | **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.** |