

# Product data sheet

Specifications



## contactor TeSys Deca - 4 poles - AC-1 440V 80 A - coil 380 V AC

LC1D65004Q7

⚠ Discontinued on: Jan 23, 2021

⚠ Discontinued

### Main

|                                |                                                     |
|--------------------------------|-----------------------------------------------------|
| Range of Product               | TeSys D                                             |
| Product or Component Type      | Contactors                                          |
| Device short name              | LC1D                                                |
| Contactors application         | Resistive load                                      |
| Utilisation category           | AC-1                                                |
| Poles description              | 4P                                                  |
| [Ue] rated operational voltage | Power circuit <= 690 V AC 25...400 Hz               |
| [Ie] rated operational current | 80 A (at <140 °F (60 °C)) AC AC-1 for power circuit |
| [Uc] control circuit voltage   | 380 V AC 50/60 Hz                                   |

### Complementary

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Maximum Horse Power Rating                  | 10 hp at 230/240 V AC 60 Hz for 1 phase motors conforming to CSA<br>10 hp at 230/240 V AC 60 Hz for 1 phase motors conforming to UL<br>20 hp at 200/208 V AC 60 Hz for 3 phase motors conforming to CSA<br>20 hp at 200/208 V AC 60 Hz for 3 phase motors conforming to UL<br>20 hp at 230/240 V AC 60 Hz for 3 phase motors conforming to CSA<br>20 hp at 230/240 V AC 60 Hz for 3 phase motors conforming to UL<br>5 hp at 115 V AC 60 Hz for 1 phase motors conforming to CSA<br>5 hp at 115 V AC 60 Hz for 1 phase motors conforming to UL<br>50 hp at 460/480 V AC 60 Hz for 3 phase motors conforming to CSA<br>50 hp at 460/480 V AC 60 Hz for 3 phase motors conforming to UL<br>50 hp at 575/600 V AC 60 Hz for 3 phase motors conforming to CSA<br>50 hp at 575/600 V AC 60 Hz for 3 phase motors conforming to UL |
| Compatibility code                          | LC1D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Pole contact composition                    | 4 NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Protective cover                            | With                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| [Ith] conventional free air thermal current | 10 A (at 140 °F (60 °C)) for control circuit<br>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<br>140 A AC for control circuit conforming to IEC 60947-5-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Rated breaking capacity                     | 1000 A at 440 V for power circuit conforming to IEC 60947                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Associated fuse rating                      | 10 A gG for control 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 mOhm - Ith 80 A 50 Hz for power circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Power dissipation per pole                  | 6.4 W AC-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>[Ui] rated insulation voltage</b>          | Control circuit 600 V CSA<br>Control circuit 600 V UL<br>Power circuit 600 V CSA<br>Power circuit 600 V UL<br>Control circuit 690 V IEC 60947-1<br>Power circuit 690 V IEC 60947-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Overvoltage category</b>                   | III                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>[Uimp] rated impulse withstand voltage</b> | 8 kV IEC 60947                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Safety reliability level</b>               | B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1<br>B10d = 2000000 cycles contactor with mechanical load EN/ISO 13849-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Mechanical durability</b>                  | 6000000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Control circuit type</b>                   | AC 50/60 Hz standard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Coil technology</b>                        | Without built-in bidirectional peak limiting diode suppressor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Control circuit voltage limits</b>         | 0.3...0.6 U <sub>c</sub> (140 °F (60 °C)):drop-out AC 50/60 Hz<br>0.8...1.1 U <sub>c</sub> (140 °F (60 °C)):operational AC 50 Hz<br>0.85...1.1 U <sub>c</sub> (140 °F (60 °C)):operational AC 60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Inrush power in VA</b>                     | 140 VA cos phi 0.75 (at 68 °F (20 °C))<br>160 VA cos phi 0.75 (at 68 °F (20 °C))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Hold-in power consumption in VA</b>        | 13 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C))<br>15 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Heat dissipation</b>                       | 4...5 W at 50/60 Hz for control circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Operating time</b>                         | 12...26 ms closing<br>4...19 ms opening                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Maximum operating rate</b>                 | 3600 cyc/h 140 °F (60 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Connections - terminals</b>                | Control circuit: screw clamp terminal 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 terminal 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 terminal 2 0.002...0.006 in <sup>2</sup> (1...4 mm <sup>2</sup> ) - cable stiffness: solid without cable end<br>Power circuit: screw clamp terminal 1 0.002...0.05 in <sup>2</sup> (1...35 mm <sup>2</sup> ) - cable stiffness: solid without cable end<br>Power circuit: screw clamp terminal 2 0.002...0.05 in <sup>2</sup> (1...35 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 terminal flat Ø 6 mm<br>Control circuit 10.6 lbf.in (1.2 N.m) screw clamp terminal Philips No 2<br>Power circuit 44.3 lbf.in (5 N.m) screw clamp terminal flat Ø 6 mm<br>Power circuit 44.3 lbf.in (5 N.m) screw clamp terminal flat Ø 8 mm<br>Control circuit 10.6 lbf.in (1.2 N.m) screw clamp terminal pozidriv No 2                                                                                                                                                                                                                                                                                                                                                    |
| <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>Minimum switching voltage</b>              | 17 V for control circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Minimum switching current</b>              | 5 mA for control circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Insulation resistance</b>                  | > 10 MOhm for control circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Non-overlap time</b>                       | 1.5 ms on de-energisation between NC and NO contacts<br>1.5 ms on energisation between NC and NO contacts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Mounting Support</b>                       | Plate<br>Rail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## Environment

|                  |                                                                                             |
|------------------|---------------------------------------------------------------------------------------------|
| <b>Standards</b> | EN 60947-4-1<br>EN 60947-5-1<br>CSA C22.2 No 14<br>IEC 60947-5-1<br>UL 508<br>IEC 60947-4-1 |
|------------------|---------------------------------------------------------------------------------------------|

|                                                              |                                                                                                                         |
|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Product Certifications</b>                                | RINA<br>BV<br>LROS (Lloyds register of shipping)<br>GL<br>CCC<br>DNV<br>GOST<br>UL<br>CSA                               |
| <b>IP degree of protection</b>                               | IP2X IEC 60529<br>IP2X VDE 0106                                                                                         |
| <b>Protective treatment</b>                                  | TH 3 IEC 60068                                                                                                          |
| <b>Permissible ambient air temperature around the device</b> | -76...176 °F (-60...80 °C) storage<br>-40...140 °F (-40...60 °C) operation<br>140...158 °F (60...70 °C) with derating   |
| <b>Operating altitude</b>                                    | 9842.52 ft (3000 m) without derating                                                                                    |
| <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>                                 | Shocks contactor opened 15 gn)<br>Shocks contactor closed<br>Vibrations contactor opened<br>Vibrations contactor closed |
| <b>Height</b>                                                | 5 in (127 mm)                                                                                                           |
| <b>Width</b>                                                 | 3.3 in (85 mm)                                                                                                          |
| <b>Depth</b>                                                 | 5.1 in (130 mm)                                                                                                         |
| <b>Net Weight</b>                                            | 3.17 lb(US) (1.44 kg)                                                                                                   |

## Ordering and shipping details

|                          |                                     |
|--------------------------|-------------------------------------|
| <b>Category</b>          | 22357-CTR, TESYS D, OPEN, 40-65A AC |
| <b>Discount Schedule</b> | I12                                 |
| <b>GTIN</b>              | 3389110072655                       |
| <b>Returnability</b>     | No                                  |
| <b>Country of origin</b> | CZ                                  |

## Packing Units

|                               |     |
|-------------------------------|-----|
| <b>Unit Type of Package 1</b> | PCE |
| <b>Nbr. of units in pkg.</b>  | 1   |

## Contractual warranty

|                             |    |
|-----------------------------|----|
| <b>Warranty (in months)</b> | 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 >](#)

### Use Longer



#### Lifetime extension

Repair

No

### Use Again



#### Repack and remanufacture

WEEE Label



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