

# Product datasheet

Specifications



## TeSys Deca contactor , 4P(2 NO + 2 NC) , AC-1 <= 440V, 80 A 380V AC 50/60 Hz coil

LC1D65008Q7

⚠ Discontinued on: 1 Nov 2020

⚠ Discontinued

### Main

|                                |                                                                      |
|--------------------------------|----------------------------------------------------------------------|
| Range                          | TeSys                                                                |
| Range of product               | TeSys Deca                                                           |
| 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<br>Power circuit: <= 300 V DC |
| [Ie] rated operational current | 80 A (at <60 °C) at <= 440 V AC AC-1 for power circuit               |
| [Uc] control circuit voltage   | 380 V AC 50/60 Hz                                                    |

### Complementary

|                                             |                                                                                                                                                                |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Compatibility code                          | LC1D                                                                                                                                                           |
| Pole contact composition                    | 2 NO + 2 NC                                                                                                                                                    |
| Protective cover                            | Without                                                                                                                                                        |
| [Ith] conventional free air thermal current | 80 A (at 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 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 |
| 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 certified<br>Power 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                                                                                                                                   |

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 conforming to EN/ISO 13849-1<br>B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Mechanical durability           | 6 Mcycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Electrical durability           | 1.4 Mcycles 80 A AC-1 at Ue <= 440 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Control circuit type            | AC at 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Coil technology                 | Without built-in suppressor module                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Control circuit voltage limits  | 0.3...0.6 Uc (-40...70 °C):drop-out AC 50/60 Hz<br>0.8...1.1 Uc (-40...60 °C):operational AC 50 Hz<br>0.85...1.1 Uc (-40...60 °C):operational AC 60 Hz<br>1...1.1 Uc (60...70 °C):operational AC 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Inrush power in VA              | 140 VA 60 Hz cos phi 0.75 (at 20 °C)<br>160 VA 50 Hz cos phi 0.75 (at 20 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Hold-in power consumption in VA | 13 VA 60 Hz cos phi 0.3 (at 20 °C)<br>15 VA 50 Hz cos phi 0.3 (at 20 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Heat dissipation                | 4...5 W at 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Operating time                  | 4...19 ms opening<br>12...26 ms closing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Connections - terminals         | Control circuit: screw clamp terminals 2 1...2.5 mm² - cable stiffness: flexible with cable end<br>Control circuit: screw clamp terminals 1 1...4 mm² - cable stiffness: flexible without cable end<br>Control circuit: screw clamp terminals 2 1...4 mm² - cable stiffness: flexible without cable end<br>Control circuit: screw clamp terminals 1 1...4 mm² - cable stiffness: flexible with cable end<br>Control circuit: screw clamp terminals 1 1...4 mm² - cable stiffness: solid without cable end<br>Control circuit: screw clamp terminals 2 1...4 mm² - cable stiffness: solid without cable end<br>Power circuit: screw clamp terminals 1 1...35 mm² - cable stiffness: flexible without cable end<br>Power circuit: screw clamp terminals 2 1...25 mm² - cable stiffness: flexible without cable end<br>Power circuit: screw clamp terminals 1 1...35 mm² - cable stiffness: flexible with cable end<br>Power circuit: screw clamp terminals 2 1...25 mm² - cable stiffness: flexible with cable end<br>Power circuit: screw clamp terminals 1 1...35 mm² - cable stiffness: solid without cable end<br>Power circuit: screw clamp terminals 2 1...25 mm² - cable stiffness: solid without cable end |
| Tightening torque               | Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm<br>Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2<br>Power circuit: 8 N.m - on screw clamp terminals - cable 25...35 mm² hexagonal screw head 4 mm<br>Power circuit: 5 N.m - on screw clamp terminals - cable 1...25 mm² hexagonal screw head 4 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Mounting support                | Rail<br>Plate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## Environment

|           |                                                                                             |
|-----------|---------------------------------------------------------------------------------------------|
| 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>CSA<br>RINA<br>GL<br>DNV<br>GOST<br>LROS (Lloyds register of shipping)<br>UL<br>BV                                                                                               |
| 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                                                                                                                                            |
| 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                                 | 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                                                | 127 mm                                                                                                                                                                                  |
| Width                                                 | 85 mm                                                                                                                                                                                   |
| Depth                                                 | 125 mm                                                                                                                                                                                  |
| Net weight                                            | 1.45 kg                                                                                                                                                                                 |

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type of Package 1       | PCE     |
| Number of Units in Package 1 | 1       |
| Package 1 Height             | 13 cm   |
| Package 1 Width              | 9.5 cm  |
| Package 1 Length             | 13.2 cm |
| Package 1 Weight             | 1.45 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

Environmental Disclosure

[Product Environmental Profile](#)

## Use Better



### Materials and Substances

EU RoHS Directive

[Compliant](#)

PVC free

Yes

## Use Longer



### Lifetime extension

Repair

No

## Use Again



### Repack and remanufacture

End of life manual availability

[End of Life Information](#)

WEEE Label



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