

# Product data sheet

Specifications



## TeSys Deca contactor, 4P (4NO), AC-1 $\leq$ 440V 200 A, 48 V DC standard coil, lugs/bars terminals

LC1D1150046ED

⚠ Discontinued on: Jul 24, 2022

⚠ Discontinued

### Main

|                                |   |
|--------------------------------|---|
| Range                          | TeSys   |
| Range of product               | TeSys Deca  |
| Product or component type      | Contactor   |
| Device short name              | LC1D  |
| Contactor application          | Resistive load  |
| Utilisation category           | AC-1<br>AC-3<br>AC-3e<br>AC-4   |
| Poles description              | 4P  |
| [Ue] rated operational voltage | Power circuit: $\leq$ 1000 V AC 25...400 Hz<br>Power circuit: $\leq$ 460 V DC |
| [Ie] rated operational current | 200 A (at $\leq$ 60 °C) at $\leq$ 440 V AC AC-1 for power circuit             |
| [Uc] control circuit voltage   | 48 V DC   |

### Complementary

|   |   |
|---|---|
| Compatibility code                          | LC1D  |
| Pole contact composition                    | 4 NO  |
| Protective cover                            | With  |
| [Ith] conventional free air thermal current | 200 A (at 60 °C) for power circuit  |
| Irms rated making capacity                  | 1260 A at 440 V for power circuit conforming to IEC 60947   |
| Rated breaking capacity                     | 1100 A at 440 V for power circuit conforming to IEC 60947   |
| [Icw] rated short-time withstand current    | 250 A 40 °C - 10 min for power circuit<br>550 A 40 °C - 1 min for power circuit<br>950 A 40 °C - 10 s for power circuit<br>1100 A 40 °C - 1 s for power circuit |
| Associated fuse rating                      | 250 A gG at $\leq$ 690 V coordination type 1 for power circuit<br>200 A gG at $\leq$ 690 V coordination type 2 for power circuit                                |
| Average impedance                           | 0.6 mOhm - Ith 200 A 50 Hz for power circuit  |
| Power dissipation per pole                  | 24 W AC-1   |
| [Ui] rated insulation voltage               | Power circuit: 600 V CSA certified<br>Power circuit: 600 V UL certified<br>Power circuit: 1000 V conforming to IEC 60947-4-1                                    |
| Overvoltage category                        | III   |
| Pollution degree                            | 3   |

|   |  |
|---|--|
| <b>[Uimp] rated impulse withstand voltage</b> | 8 kV conforming to IEC 60947   |
| <b>Safety reliability level</b>               | B10d = 684932 cycles contactor with nominal load conforming to EN/ISO 13849-1<br>B10d = 10000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1  |
| <b>Mechanical durability</b>                  | 8 Mcycles  |
| <b>Electrical durability</b>                  | 0.8 Mcycles 200 A AC-1 at $U_e \leq 440$ V   |
| <b>Control circuit type</b>                   | DC standard  |
| <b>Coil technology</b>                        | With integral suppression device   |
| <b>Control circuit voltage limits</b>         | 0.75...1.2 $U_c$ (-40...55 °C):operational DC<br>0.15...0.4 $U_c$ (-40...70 °C):drop-out DC<br>1...1.2 $U_c$ (55...70 °C):operational DC   |
| <b>Inrush power in W</b>                      | 270...365 W (at 20 °C)   |
| <b>Hold-in power consumption in W</b>         | 2.4...5.1 W at 20 °C   |
| <b>Operating time</b>                         | 20...35 ms closing<br>40...75 ms opening   |
| <b>Time constant</b>                          | 25 ms  |
| <b>Connections - terminals</b>                | Control circuit: lugs-ring terminals - external diameter: 8 mm<br>Power circuit: lugs-ring terminals - external diameter: 25 mm<br>Power circuit: bars 1 - busbar cross section: 5 x 25 mm   |
| <b>Tightening torque</b>                      | Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver flat $\varnothing$ 6 mm M3.5<br>Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5<br>Power circuit: 12 N.m - on lugs-ring terminals hexagonal screw head 13 mm M8<br>Power circuit: 12 N.m - on bars hexagonal screw head 13 mm M8 |
| <b>Mounting support</b>                       | Plate<br>Rail  |

## Environment

|  |   |
|--|---|
| <b>Standards</b>   | 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   |
| <b>Product certifications</b>                                | CCC<br>UL<br>GL<br>LROS (Lloyds register of shipping)<br>CSA<br>BV<br>DNV<br>RINA<br>GOST   |
| <b>IP degree of protection</b>                               | IP20 front face conforming to IEC 60529   |
| <b>Protective treatment</b>                                  | TH conforming to IEC 60068-2-30   |
| <b>Climatic withstand</b>                                    | conforming to IACS E10 exposure to damp heat<br>conforming to IEC 60947-1 Annex Q category D exposure to damp heat  |
| <b>Permissible ambient air temperature around the device</b> | -40...60 °C<br>60...70 °C with derating   |
| <b>Operating altitude</b>                                    | 0...3000 m  |
| <b>Fire resistance</b>                                       | 850 °C conforming to 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) |

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|                   |         |
|-------------------|---------|
| <b>Height</b>     | 158 mm  |
| <b>Width</b>      | 155 mm  |
| <b>Depth</b>      | 115 mm  |
| <b>Net weight</b> | 2.86 kg |

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## Packing Units

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|                                     |     |
|-------------------------------------|-----|
| <b>Unit Type of Package 1</b>       | PCE |
| <b>Number of Units in Package 1</b> | 1   |

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## Contractual warranty

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|                             |    |
|-----------------------------|----|
| <b>Warranty (in months)</b> | 18 |
|-----------------------------|----|

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## 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 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