

# Product datasheet

Specifications



Contactors, TeSys Deca,  
4P(2NO+2NC), AC-1, <=440V,  
125A, 115V AC 50/60Hz coil, screw  
clamp terminal

LC1D80008FE7

⚠ To be discontinued

⚠ Discontinued on: 1 Dec 2024

## 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: <= 300 V DC<br>Power circuit: <= 690 V AC 25...400 Hz |
| [Ie] rated operational current | 125 A (at <60 °C) at <= 1000 V AC AC-1 for power circuit             |
| [Uc] control circuit voltage   | 115 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 | 125 A (at 60 °C) for power circuit   |
| Irms rated making capacity                  | 1100 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    | 640 A 40 °C - 10 s for power circuit<br>990 A 40 °C - 1 s for power circuit<br>135 A 40 °C - 10 min for power circuit<br>320 A 40 °C - 1 min for power circuit |
| Associated fuse rating                      | 200 A gG at <= 690 V coordination type 1 for power circuit<br>160 A gG at <= 690 V coordination type 2 for power circuit                                       |
| Average impedance                           | 0.8 mOhm - Ith 125 A 50 Hz for power circuit   |
| Power dissipation per pole                  | 12.5 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  |
| [Uimp] rated impulse withstand voltage      | 8 kV conforming to IEC 60947   |

Excluding VAT, FCA Jabal Ali & amp; are subject to change – check with your local distributor.

|  |  |
|--|--|
| <b>Safety reliability level</b>        | 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   |
| <b>Mechanical durability</b>           | 4 Mcycles  |
| <b>Electrical durability</b>           | 0.8 Mcycles 125 A AC-1 at $U_e \leq 440$ V   |
| <b>Control circuit type</b>            | AC at 50/60 Hz   |
| <b>Coil technology</b>                 | Without built-in suppressor module   |
| <b>Control circuit voltage limits</b>  | 0.85...1.1 $U_c$ (-40...55 °C):operational AC 60 Hz<br>0.3...0.6 $U_c$ (-40...70 °C):drop-out AC 50/60 Hz<br>0.8...1.1 $U_c$ (-40...55 °C):operational AC 50 Hz<br>1...1.1 $U_c$ (55...70 °C):operational AC 50/60 Hz  |
| <b>Inrush power in VA</b>              | 245 VA 60 Hz $\cos \phi$ 0.75 (at 20 °C)<br>245 VA 50 Hz $\cos \phi$ 0.75 (at 20 °C)   |
| <b>Hold-in power consumption in VA</b> | 26 VA 60 Hz $\cos \phi$ 0.3 (at 20 °C)<br>26 VA 50 Hz $\cos \phi$ 0.3 (at 20 °C)   |
| <b>Heat dissipation</b>                | 6...10 W at 50/60 Hz   |
| <b>Operating time</b>                  | 20...35 ms closing<br>6...20 ms opening  |
| <b>Maximum operating rate</b>          | 3600 cyc/h at 60 °C  |
| <b>Connections - terminals</b>         | Control circuit: screw clamp terminals 2 1...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end<br>Control circuit: screw clamp terminals 1 1...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end<br>Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: flexible without cable end<br>Control circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: flexible without cable end<br>Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: solid without cable end<br>Control circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: solid without cable end<br>Power circuit: connector 1 4...50 mm <sup>2</sup> - cable stiffness: flexible without cable end<br>Power circuit: connector 2 4...25 mm <sup>2</sup> - cable stiffness: flexible without cable end<br>Power circuit: connector 1 4...50 mm <sup>2</sup> - cable stiffness: flexible with cable end<br>Power circuit: connector 2 4...16 mm <sup>2</sup> - cable stiffness: flexible with cable end<br>Power circuit: connector 1 4...50 mm <sup>2</sup> - cable stiffness: solid without cable end<br>Power circuit: connector 2 4...25 mm <sup>2</sup> - cable stiffness: solid without cable end |
| <b>Tightening torque</b>               | Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat $\varnothing$ 6 mm<br>Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2<br>Power circuit: 12 N.m - on connector - with screwdriver flat $\varnothing$ 6 to $\varnothing$ 8 mm<br>Power circuit: 12 N.m - on connector hexagonal screw head 4 mm<br>Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver pozidriv No 2  |
| <b>Mounting support</b>                | Rail<br>Plate  |

## Environment

|                               |   |
|-------------------------------|---|
| <b>Standards</b>              | EN 60947-4-1<br>EN 60947-5-1<br>IEC 60947-4-1<br>IEC 60947-5-1<br>CSA C22.2 No 14<br>UL 60947-4-1<br>IEC 60335-2-40:Annex JJ<br>UL 60335-2-40:Annex JJ<br>IEC 60335-1:Clause 30.2 |
| <b>Product certifications</b> | CCC<br>UL<br>CB Scheme<br>CSA<br>CE<br>UKCA<br>Marine<br>EAC  |

|  |   |
|--|---|
| <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  |
| <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>Shocks contactor open (8 Gn for 11 ms)<br>Vibrations contactor closed (3 Gn, 5...300 Hz)<br>Shocks contactor closed (10 Gn for 11 ms) |
| <b>Height</b>  | 127 mm  |
| <b>Width</b>   | 96 mm   |
| <b>Depth</b>   | 140 mm  |
| <b>Net weight</b>  | 1.84 kg   |

## Packing Units

|                                     |          |
|-------------------------------------|----------|
| <b>Unit Type of Package 1</b>       | PCE      |
| <b>Number of Units in Package 1</b> | 1        |
| <b>Package 1 Height</b>             | 15.5 cm  |
| <b>Package 1 Width</b>              | 11.0 cm  |
| <b>Package 1 Length</b>             | 13.5 cm  |
| <b>Package 1 Weight</b>             | 1.842 kg |

## 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 >](#)



### Environmental footprint

|  |   |
|--|---|
| Total lifecycle Carbon footprint                       | 149 kg CO2 eq.                                |
| Carbon footprint of the manufacturing phase [A1 to A3] | 13 kg CO2 eq.                                 |
| Carbon footprint of the distribution phase [A4]        | 0.2 kg CO2 eq.                                |
| Carbon footprint of the installation phase [A5]        | 0.4 kg CO2 eq.                                |
| Carbon footprint of the use phase [B2, B3, B4, B6]     | 132 kg CO2 eq.                                |
| Carbon footprint of the end-of-life phase [C1 to C4]   | 5 kg CO2 eq.                                  |
| Environmental Disclosure                               | <a href="#">Product Environmental Profile</a> |

## Use Better



### Materials and Substances

|  |     |
|--|-----|
| Packaging made with recycled cardboard | Yes |
| Packaging without single use plastic   | Yes |
| PVC free                               | Yes |

## Use Longer



### Lifetime extension

|        |    |
|--------|----|
| Repair | No |
|--------|----|

## Use Again



### Repack and remanufacture

|                                 |   |
|---------------------------------|---|
| Recyclability potential, in %   | 76  |
| End of life manual availability | 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 |

Offer Marketing Illustration

Product benefits / Features

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## TeSys Deca Contactors



### Reliable

Multi-standard solutions, high reliability, long mechanical and electrical durability for different sizes, and the most complete accessories.



### Energy efficiency

These electronic-coil contactors require up to 80 % less energy than electro-mechanical contactors.



### Universal

Multi standards certified (IEC, UL, CSA, CCC, EAC, Marine), Green Premium compliant (RoHS/REACH).



Offer Marketing Illustration

Product benefits / Features

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### TeSys Deca Contactors

#### Technical Benefits



- Deca green delivers a consistent low consumption range of contactors from 9 A to 80 A.
- Covers control voltage from 24 to 250 V, with same coils for AC and DC.
- Designed to meet the requirements of industrial and HVAC applications
- With IEC60335-1 compliance, improved fire resistance, and dust-proof auxiliaries
- Suitable for safety applications thanks to mechanically linked contacts and mirror contacts
- Outstanding breaking/making capacity up to 20 In with PLC direct connection

Offer Marketing Illustration

Product benefits / Features

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Technical Illustration

Assembly's dimensions

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