

Product datasheet

Specifications



TeSys Deca contactor, 4P (4NO), AC-1 $\leq 440\text{V}$ 200 A, 400 V AC 50/60 Hz coil, lugs/bars terminals

LC1D1150046V7

! Discontinued

! Discontinued on: 10 Jun 2022

! End-of-service on: 26 Nov 2024

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 AC-3 AC-3e AC-4 |
| Poles description | 4P |
| [Ue] rated operational voltage | Power circuit: $\leq 1000\text{ V AC } 25\dots 400\text{ Hz}$ Power circuit: $\leq 460\text{ V DC}$ |
| [Ie] rated operational current | 200 A (at $\leq 60\text{ }^\circ\text{C}$) at $\leq 440\text{ V AC AC-1}$ for power circuit |
| [Uc] control circuit voltage | 400 V AC 50/60 Hz |

Complementary

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|---|---|
| Compatibility code | LC1D |
| Pole contact composition | 4 NO |
| Protective cover | With |
| [Ith] conventional free air thermal current | 200 A (at $60\text{ }^\circ\text{C}$) 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 $40\text{ }^\circ\text{C}$ - 10 min for power circuit 550 A $40\text{ }^\circ\text{C}$ - 1 min for power circuit 950 A $40\text{ }^\circ\text{C}$ - 10 s for power circuit 1100 A $40\text{ }^\circ\text{C}$ - 1 s for power circuit |
| Associated fuse rating | 250 A gG at $\leq 690\text{ V}$ coordination type 1 for power circuit 200 A gG at $\leq 690\text{ V}$ 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 Power circuit: 600 V UL certified Power circuit: 1000 V conforming to IEC 60947-4-1 |
| Overvoltage category | III |
| Pollution degree | 3 |

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| [Uimp] rated impulse withstand voltage | 8 kV conforming to IEC 60947 |
| Safety reliability level | B10d = 684932 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 10000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1 |
| Mechanical durability | 8 Mcycles |
| Electrical durability | 0.8 Mcycles 200 A AC-1 at $U_e \leq 440$ V |
| Control circuit type | AC at 50/60 Hz |
| Coil technology | Built-in bidirectional peak limiting diode suppressor |
| Control circuit voltage limits | 0.3...0.5 U_c (-40...70 °C):drop-out AC 50/60 Hz 0.8...1.15 U_c (-40...55 °C):operational AC 50/60 Hz 1...1.15 U_c (55...70 °C):operational AC 50/60 Hz |
| Inrush power in VA | 280...350 VA 60 Hz $\cos \phi$ 0.8 (at 20 °C) 280...350 VA 50 Hz $\cos \phi$ 0.8 (at 20 °C) |
| Hold-in power consumption in VA | 2...18 VA 60 Hz $\cos \phi$ 0.3 (at 20 °C) 2...18 VA 50 Hz $\cos \phi$ 0.3 (at 20 °C) |
| Heat dissipation | 3...8 W at 50/60 Hz |
| Operating time | 6...20 ms opening 20...50 ms closing |
| Connections - terminals | Control circuit: lugs-ring terminals - external diameter: 8 mm Power circuit: lugs-ring terminals - external diameter: 25 mm Power circuit: bars 1 - busbar cross section: 5 x 25 mm |
| Tightening torque | Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver flat \varnothing 6 mm M3.5 Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5 Power circuit: 12 N.m - on lugs-ring terminals hexagonal screw head 13 mm M8 Power circuit: 12 N.m - on bars hexagonal screw head 13 mm M8 |
| Mounting support | Rail Plate |

Environment

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| Standards | CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 |
| Product certifications | GOST UL CCC BV CSA LROS (Lloyds register of shipping) DNV GL RINA |
| 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 conforming to IEC 60947-1 Annex Q category D exposure to damp heat |
| Permissible ambient air temperature around the device | -40...60 °C 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 |

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| Mechanical robustness | Vibrations contactor open (2 Gn, 5...300 Hz) Vibrations contactor closed (4 Gn, 5...300 Hz) Shocks contactor closed (15 Gn for 11 ms) Shocks contactor open (6 Gn for 11 ms) |
| Height | 158 mm |
| Width | 155 mm |
| Depth | 115 mm |
| Net weight | 2.86 kg |

Packing Units

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| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |

Contractual warranty

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| Warranty (in months) | 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