

TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 9 A - 380 V AC coil

LC1D09Q7

Main

| Range of product | TeSys Deca | |
|--------------------------------|---|--|
| Product or component type | Contactor | |
| Device short name | LC1D | |
| Contactor application | Motor control Resistive load | |
| Utilisation category | AC-1 AC-4 AC-3 AC-3e | |
| Poles description | 3P | |
| [Ue] rated operational voltage | Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC | |
| [le] rated operational current | 9 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 25 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 9 A (at <60 °C) at <= 440 V AC AC-3e for power circuit | |
| [Uc] control circuit voltage | 380 V AC 50/60 Hz | |

Complementary

| Motor power kW | 2.2 kW at 220230 V AC 50/60 Hz (AC-3) |
|-------------------------------------|---|
| | 4 kW at 380400 V AC 50/60 Hz (AC-3) |
| | 4 kW at 415440 V AC 50/60 Hz (AC-3) |
| | 5.5 kW at 500 V AC 50/60 Hz (AC-3) |
| | 5.5 kW at 660690 V AC 50/60 Hz (AC-3) |
| | 2.2 kW at 400 V AC 50/60 Hz (AC-4) |
| | 2.2 kW at 220230 V AC 50/60 Hz (AC-3e) |
| | 4 kW at 380400 V AC 50/60 Hz (AC-3e) |
| | 4 kW at 415440 V AC 50/60 Hz (AC-3e) |
| | 5.5 kW at 500 V AC 50/60 Hz (AC-3e) |
| | 5.5 kW at 660690 V AC 50/60 Hz (AC-3e) |
| Motor power hp | 1 hp at 230/240 V AC 50/60 Hz for 1 phase motors |
| | 2 hp at 200/208 V AC 50/60 Hz for 3 phases motors |
| | 2 hp at 230/240 V AC 50/60 Hz for 3 phases motors |
| | 5 hp at 460/480 V AC 50/60 Hz for 3 phases motors |
| | 7.5 hp at 575/600 V AC 50/60 Hz for 3 phases motors |
| | 0.33 hp at 115 V AC 50/60 Hz for 1 phase motors |
| Compatibility code | LC1D |
| Pole contact composition | 3 NO |
| Protective cover | With |
| [Ith] conventional free air thermal | 25 A (at 60 °C) for power circuit |
| current | 10 A (at 60 °C) for signalling circuit |
| Irms rated making capacity | 250 A at 440 V for power circuit conforming to IEC 60947 |
| | 140 A AC for signalling circuit conforming to IEC 60947-5-1 |
| | 250 A DC for signalling circuit conforming to IEC 60947-5-1 |
| Rated breaking capacity | 250 A at 440 V for power circuit conforming to IEC 60947 |

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

| [Icw] rated short-time withstand current | 105 A 40 °C - 10 s for power circuit |
|--|--|
| current | 210 A 40 °C - 1 s for power circuit |
| | 30 A 40 °C - 10 min for power circuit |
| | 61 A 40 °C - 1 min for power circuit |
| | 100 A - 1 s for signalling circuit |
| | 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit |
| | 140 A - 100 His for signalling circuit |
| Associated fuse rating | 10 A gG for signalling circuit conforming to IEC 60947-5-1 |
| | 25 A gG at <= 690 V coordination type 1 for power circuit |
| | 20 A gG at <= 690 V coordination type 2 for power circuit |
| Average impedance | 2.5 mOhm - Ith 25 A 50 Hz for power circuit |
| Power dissipation per pole | 1.56 W AC-1 |
| | 0.2 W AC-3 |
| | 0.2 W AC-3e |
| [Ui] rated insulation voltage | Power circuit: 690 V conforming to IEC 60947-4-1 |
| [e.] ratea meananen vertage | Power circuit: 600 V CSA certified |
| | Power circuit: 600 V UL certified |
| | Signalling circuit: 690 V conforming to IEC 60947-1 |
| | · · |
| | Signalling circuit: 600 V CSA certified |
| | Signalling circuit: 600 V UL certified |
| Overvoltage category | III |
| Pollution degree | 3 |
| [Uimp] rated impulse withstand voltage | 6 kV conforming to IEC 60947 |
| Safety reliability level | B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 |
| • | B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO |
| | 13849-1 |
| Mechanical durability | 15 Mcycles |
| Electrical durability | 0.6 Mcycles 25 A AC-1 at Ue <= 440 V |
| j | 2 Mcycles 9 A AC-3 at Ue <= 440 V |
| | 2 Mcycles 9 A AC-3e at Ue <= 440 V |
| | · |
| Control circuit type | AC at 50/60 Hz |
| Coil technology | Without built-in suppressor module |
| Control circuit voltage limits | 0.30.6 Uc (-4070 °C):drop-out AC 50/60 Hz |
| - | 0.81.1 Uc (-4060 °C):operational AC 50 Hz |
| | 0.851.1 Uc (-4060 °C):operational AC 60 Hz |
| | 11.1 Uc (6070 °C):operational AC 50/60 Hz |
| Inrush power in VA | 70 VA 60 Hz coo phi 0.75 (at 20 °C) |
| doi! power iii vA | 70 VA 60 Hz cos phi 0.75 (at 20 °C) 70 VA 50 Hz cos phi 0.75 (at 20 °C) |
| | 70 VA 30 TIZ 605 PHI 0.73 (at 20 G) |
| Hold-in power consumption in VA | 7.5.VA 60 Hz cos phi 0.3 (at 20 °C) |
| III porror consumption III VA | 7.5 VA 60 Hz cos phi 0.3 (at 20 °C) 7 VA 50 Hz cos phi 0.3 (at 20 °C) |
| | 7 77 00 112 000 prii 0.0 (dt 20 ° 0) |
| Heat dissipation | 23 W at 50/60 Hz |
| Operating time | 1222 ms closing |
| - | 419 ms opening |
| <u> </u> | |
| Maximum operating rate | 3600 cyc/h at 60 °C |
| | |

| Connections - terminals | Power circuit: screw clamp terminals 1 14 mm ² - cable stiffness: flexible without cable end | |
|-------------------------------|---|--|
| | Power circuit: screw clamp terminals 2 14 mm ² - cable stiffness: flexible without cable end | |
| | Power circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable | |
| | end Power circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with | |
| | cable end Power circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable | |
| | end | |
| | Power circuit: screw clamp terminals 2 14 mm ² - cable stiffness: solid without cable end | |
| | Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible without cable end | |
| | Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible without cable end | |
| | Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable | |
| | end Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with | |
| | cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without | |
| | cable end | |
| | Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without cable end | |
| Tightening torque | Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm | |
| | Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm | |
| | Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver hat 9 0 min | |
| | Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 | |
| Auxiliary contact composition | 1 NO + 1 NC | |
| Auxiliary contacts type | type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 | |
| , | type mirror contact 1 NC conforming to IEC 60947-4-1 | |
| Signalling circuit frequency | 25400 Hz | |
| Minimum switching voltage | 17 V for signalling circuit | |
| Minimum switching current | 5 mA for signalling circuit | |
| Insulation resistance | > 10 MOhm for signalling circuit | |
| Non-overlap time | 1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact | |
| Mounting support | Plate Rail | |
| | | |
| Environment | | |
| Standards | CSA C22.2 No 14 | |
| | EN 60947-4-1 | |
| | EN 60947-5-1 IEC 60947-4-1 | |
| | IEC 60947-5-1 | |
| | UL 60947-4-1 | |
| | IEC 60335-1:Clause 30.2 | |
| | IEC 60335-2-40:Annex JJ UL 60335-2-40:Annex JJ | |
| | UL 60335-2-40:Annex JJ CSA C22.2 No 60947-4-1 | |
| Product certifications | UL | |
| | CCC | |
| | CSA Marine | |
| | UKCA | |
| | EAC CB Scheme | |
| IP degree of protection | IP20 front face conforming to IEC 60529 | |
| Protective treatment | TH conforming to IEC 60068-2-30 | |
| Climatic withstand | | |
| Jamado Widistalla | conforming to IACS E10 exposure to damp heat | |

conforming to IEC 60947-1 Annex Q category D exposure to damp heat

| Permissible ambient air | -4060 °C |
|-------------------------------|---|
| temperature around the device | |
| | 6070 °C with derating |
| Operating altitude | 03000 m |
| Fire resistance | 050 °C |
| - rile resistance | 850 °C conforming to IEC 60695-2-1 |
| Flame retardance | V1 conforming to UL 94 |
| Mechanical robustness | Vibrations contactor open (2 Gn, 5300 Hz) |
| | Vibrations contactor closed (4 Gn, 5300 Hz) |
| | Shocks contactor open (10 Gn for 11 ms) |
| | Shocks contactor closed (15 Gn for 11 ms) |
| Height | 77 mm |
| Width | 45 mm |
| Depth | 86 mm |
| | |
| Product weight | 0.32 kg |
| | |

Packing Units

| Unit Type of Package 1 | PCE |
|------------------------------|----------|
| Number of Units in Package 1 | 1 |
| Package 1 Height | 5 cm |
| Package 1 Width | 9.2 cm |
| Package 1 Length | 11.2 cm |
| Package 1 Weight | 348 g |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 20 |
| Package 2 Height | 15 cm |
| Package 2 Width | 30 cm |
| Package 2 Length | 40 cm |
| Package 2 Weight | 7.455 kg |
| Unit Type of Package 3 | P06 |
| Number of Units in Package 3 | 160 |
| Package 3 Height | 77 cm |
| Package 3 Width | 80 cm |
| Package 3 Length | 60 cm |
| Package 3 Weight | 68.3 kg |

Contractual warranty

Warranty 18 months

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.

How this information helps you >

| Carbon footprint (kg CO2 eq, Total Life cycle) | 18 |
|---|-------------------------------|
| Environmental Disclosure | Product Environmental Profile |

Use Better

| Packaging made with recycled cardboard | Yes |
|--|------------------------|
| Packaging without single use plastic | Yes |
| EU RoHS Directive | Compliant |
| REACh Regulation | REACh Declaration |
| China RoHS Regulation | China RoHS declaration |
| PVC free | Yes |

Use Again

| ○ Repack and remanufacture | |
|----------------------------|-------------------------|
| Circularity Profile | End of Life Information |

WEEE



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

Take-back

No

Image of product / Alternate images

Alternative







