

Contactor, TeSys Deca, 3P(3 NO), AC-3/AC-3e, <=400V, 65A, 220V AC 50/60Hz coil, screw clamp terminals

LC1D65AM7

Main

| Range | TeSys TeSys Deca |
|--------------------------------|---|
| Range of product | TeSys Deca |
| Product or component type | Contactor |
| Device short name | LC1D |
| Contactor application | Motor control Resistive load |
| Utilisation category | AC-4 AC-1 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 | 80 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 65 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 65 A (at <60 °C) at <= 440 V AC AC-3e for power circuit |
| [Uc] control circuit voltage | 220 V AC 50/60 Hz |

Complementary

| Motor power kW | 11 kW at 400 V AC 50/60 Hz (AC-4) 18.5 kW at 220230 V AC 50/60 Hz (AC-3) 30 kW at 380400 V AC 50/60 Hz (AC-3) 37 kW at 500 V AC 50/60 Hz (AC-3) 37 kW at 660690 V AC 50/60 Hz (AC-3) 18.5 kW at 220230 V AC 50/60 Hz (AC-3e) 30 kW at 380400 V AC 50/60 Hz (AC-3e) 37 kW at 500 V AC 50/60 Hz (AC-3e) 37 kW at 660690 V AC 50/60 Hz (AC-3e) | |
|---|---|--|
| Motor power hp | 40 hp at 460/480 V AC 50/60 Hz for 3 phases motors 5 hp at 115 V AC 50/60 Hz for 1 phase motors 10 hp at 230/240 V AC 50/60 Hz for 1 phase motors 20 hp at 200/208 V AC 50/60 Hz for 3 phases motors 20 hp at 230/240 V AC 50/60 Hz for 3 phases motors 50 hp at 575/600 V AC 50/60 Hz for 3 phases motors | |
| Compatibility code | LC1D | |
| Pole contact composition | 3 NO | |
| Protective cover | With | |
| [Ith] conventional free air thermal current | 10 A (at 60 °C) for signalling circuit 80 A (at 60 °C) for power circuit | |
| Irms rated making capacity | 140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1 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 |
|--|--|
| [lcw] rated short-time withstand | 640 A 40 °C - 10 s for power circuit |
| current | 900 A 40 °C - 1 s for power circuit |
| | 110 A 40 °C - 10 min for power circuit |
| | 260 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 |
| Associated fuse rating | 10 A gG for signalling circuit conforming to IEC 60947-5-1 |
| | 125 A gG at <= 690 V coordination type 1 for power circuit |
| | 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 |
| | 6.3 W AC-3 |
| | 6.3 W AC-3e |
| [Ui] rated insulation voltage | 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 |
| | 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 |
| 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 | 6 Mcycles |
| Electrical durability | 1.4 Mcycles 80 A AC-1 at Ue <= 440 V |
| | 1.45 Mcycles 65 A AC-3 at Ue <= 440 V |
| | 1.45 Mcycles 65 A AC-3e at Ue <= 440 V |
| Control circuit type | AC at 50/60 Hz standard |
| 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 | 140 VA 60 Hz cos phi 0.75 (at 20 °C) |
| | 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) |
| · | 15 VA 50 Hz cos phi 0.3 (at 20 °C) |
| Heat dissipation | 45 W at 50/60 Hz |
| Operating time | 419 ms opening |
| | 1226 ms closing |
| Maximum operating rate | 3600 cyc/h at 60 °C |
| | |

| Connections - terminals | 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: 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 1 14 mm² - cable stiffness: solid without | |
| | cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without | |
| | cable end Power circuit: EverLink BTR screw connectors 1 135 mm² - cable stiffness: flexible | |
| | without cable end Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: flexible | |
| | without cable end Power circuit: EverLink BTR screw connectors 1 135 mm² - cable stiffness: flexible | |
| | with cable end Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: flexible | |
| | with cable end Power circuit: EverLink BTR screw connectors 1 135 mm² - cable stiffness: solid | |
| | without cable end Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: solid | |
| | without cable end | |
| Tightening torque | Control circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver flat Ø 6 mm | |
| | Control circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver Philips No 2 | |
| | Power circuit: 8 N.m - on EverLink BTR screw connectors - cable 2535 mm ² hexagonal screw head 4 mm | |
| | Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 125 mm² hexagonal screw head 4 mm | |
| | Control circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver | |
| | pozidriv No 2 Power circuit: 2.5 N.m - on EverLink BTR screw connectors - with screwdriver | |
| Auxiliary contact composition | pozidriv No 2 1 NO + 1 NC | |
| Auxiliary contacts type | | |
| Advinary 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 | Rail Plate | |
| Environment | | |
| Standards | EN 60947-4-1 | |
| | EN 60947-5-1 | |
| | IEC 60947-4-1 IEC 60947-5-1 | |
| | CSA C22.2 No 14 | |
| | UL 60947-4-1 IEC 60335-2-40:Annex JJ | |
| | UL 60335-2-40:Annex JJ IEC 60335-1:Clause 30.2 | |
| Product certifications | CCC | |
| | UL | |
| | CB Scheme | |
| | CSA CE | |
| | UKCA | |
| | Marine | |
| | EAC | |

EAC

| 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 | -4060 °C 6070 °C with derating | |
| Operating altitude | 03000 m | |
| Fire 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 closed (15 Gn for 11 ms) Shocks contactor open (10 Gn for 11 ms) | |
| Height | 122 mm | |
| Width | 55 mm | |
| Depth | 120 mm | |
| Product weight | 0.86 kg | |

Packing Units

| Unit Type of Package 1 | PCE |
|------------------------------|------------|
| Number of Units in Package 1 | 1 |
| Package 1 Height | 6.300 cm |
| Package 1 Width | 13.500 cm |
| Package 1 Length | 15.300 cm |
| Package 1 Weight | 929.000 g |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 10 |
| Package 2 Height | 15.000 cm |
| Package 2 Width | 30.000 cm |
| Package 2 Length | 40.000 cm |
| Package 2 Weight | 9.849 kg |
| Unit Type of Package 3 | P06 |
| Number of Units in Package 3 | 160 |
| Package 3 Height | 75.000 cm |
| Package 3 Width | 60.000 cm |
| Package 3 Length | 80.000 cm |
| Package 3 Weight | 165.408 kg |

Contractual warranty

Warranty 18 months



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 | 84 |
| Environmental Disclosure | Product Environmental Profile |

Use Better

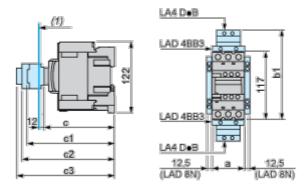
| Materials and Substances | |
|--|---|
| Packaging made with recycled cardboard | Yes |
| Packaging without single use plastic | No |
| EU RoHS Directive | Compliant |
| REACh Regulation | REACh Declaration |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov |
| PVC free | Yes |

Use Again

| ○ Repack and remanufacture | |
|---------------------------------|---|
| End of life manual availability | End of Life Information |
| 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 |

Dimensions Drawings

Dimensions

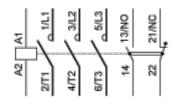


(1) Minimum electrical clearance

| LC1 | | D40AD65A |
|-----|------------------------------------|----------|
| а | | 55 |
| | with LA4 D●2 | _ |
| | with LA4 DB3 or LAD 4BB3 | 136 |
| b1 | with LA4 DF, DT | 157 |
| | with LA4 DM, DW, DL | 166 |
| c | without cover or add-on blocks | 118 |
| | with cover, without add-on blocks | 120 |
| 24 | with LAD N (1 contact) | _ |
| c1 | with LAD N or C (2 or 4 contacts) | 150 |
| c2 | with LA6 DK10, LAD 6DK | 163 |
| с3 | with LAD T, R, S | 171 |
| | with LAD T, R, S and sealing cover | 175 |

Connections and Schema

Wiring



Technical Illustration

Assembly's dimensions

