

LC1D65AKUE

IEC contactor, TeSys Deca Green, nonreversing, 65A, 40HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 100/250VAC/VDC coil



Product availability: Stock - Normally stocked in distribution facility

Price*: 144.00 USD



Main

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| Range | TeSys TeSys Deca |
| Range of Product | TeSys Deca |
| Product or Component Type | Contacteur |
| Device short name | LC1D |
| Contacteur application | Motor control Resistive load |
| Utilisation category | AC-1 AC-3 AC-3e |
| Poles description | 3P |
| [Ue] rated operational voltage | Power circuit ≤ 690 V AC 25...400 Hz |
| [Ie] rated operational current | 80 A (at <140 °F (60 °C)) at ≤ 440 V AC-1 for power circuit 65 A (at <140 °F (60 °C)) at ≤ 440 V AC-3 for power circuit 65 A (at <140 °F (60 °C)) at ≤ 440 V AC-3e for power circuit |
| [Uc] control circuit voltage | 100...250 V AC 50/60 Hz 100...250 V DC |

Complementary

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| Motor power kW | 18.5 KW at 220...230 V AC 50 Hz (AC-3) 30 KW at 380...400 V AC 50 Hz (AC-3) 37 KW at 415 V AC 50 Hz (AC-3) 37 KW at 440 V AC 50 Hz (AC-3) 37 KW at 500 V AC 50 Hz (AC-3) 37 KW at 660...690 V AC 50 Hz (AC-3) 18.5 KW at 220...230 V AC 50 Hz (AC-3e) 30 KW at 380...400 V AC 50 Hz (AC-3e) 37 KW at 415 V AC 50 Hz (AC-3e) 37 KW at 440 V AC 50 Hz (AC-3e) 37 KW at 500 V AC 50 Hz (AC-3e) 37 KW at 660...690 V AC 50 Hz (AC-3e) |
| Maximum Horse Power Rating | 5 Hp at 115 V AC 60 Hz for 1 phase motors 10 Hp at 230/240 V AC 60 Hz for 1 phase motors 20 Hp at 200/208 V AC 60 Hz for 3 phase motors 20 Hp at 230/240 V AC 60 Hz for 3 phase motors 40 Hp at 460/480 V AC 60 Hz for 3 phase motors 50 Hp at 575/600 V AC 60 Hz for 3 phase motors |
| Compatibility code | LC1D |
| Pole contact composition | 3 NO |
| Protective cover | With |
| [Ith] conventional free air thermal current | 80 A (at 140 °F (60 °C)) for power circuit 10 A (at 140 °F (60 °C)) for signalling circuit |
| Irms rated making capacity | 1000 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 | 1000 A at 440 V for power circuit conforming to IEC 60947 |
| [Icw] rated short-time withstand current | 110 A 104 °F (40 °C) - 10 min for power circuit 260 A 104 °F (40 °C) - 1 min for power circuit 640 A 104 °F (40 °C) - 10 s for power circuit 900 A 104 °F (40 °C) - 1 s 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 | 125 A gG at ≤ 690 V coordination type 1 for power circuit 125 A gG at ≤ 690 V coordination type 2 for power circuit 10 A gG for signalling circuit conforming to IEC 60947-5-1 |
| 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 |

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| [Ui] rated insulation voltage | Power circuit 690 V IEC 60947-4-1 Signalling circuit 690 V IEC 60947-1 |
| Overtoltage category | III |
| Pollution degree | 3 |
| [Uimp] rated impulse withstand voltage | 6 KV IEC 60947 |
| Safety reliability level | B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 |
| Mechanical durability | 6 Mcycles |
| Electrical durability | 1.8 Mcycles 57 A AC-3 <= 440 V 0.5 Mcycles 80 A AC-1 <= 440 V 1.8 Mcycles 57 A AC-3e <= 440 V |
| Control circuit type | AC/DC 50/60 Hz AC/DC electronic |
| Coil technology | Built-in bidirectional peak limiting |
| Control circuit voltage limits | <= 0.1 Uc -40...158 °F (-40...70 °C) drop-out AC/DC 0.85...1.1 Uc -40...140 °F (-40...60 °C) operational AC/DC 1...1.1 Uc 140...158 °F (60...70 °C) operational AC/DC |
| Inrush power in VA | 18 VA 50/60 Hz (at 68 °F (20 °C)) |
| Inrush power in W | 14 W 68 °F (20 °C)) |
| Hold-in power consumption in VA | 1.8 VA 50/60 Hz (at 68 °F (20 °C)) |
| Hold-in power consumption in W | 1.2 W 68 °F (20 °C) |
| Heat dissipation | 1.2 W at 50/60 Hz |
| Operating time | 55...65 ms closing 20...120 ms opening >= 17221) 20...80 ms opening >= 18011) |
| Maximum operating rate | 3600 Cyc/H 140 °F (60 °C) |
| Maximum operating rate | 3600 Cyc/H at 60 °C |
| Connections - terminals | Control circuit: screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 0.002...0.006 in ² (1...4 mm ²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 0.002...0.004 in ² (1...2.5 mm ²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²) - cable stiffness: solid Control circuit: screw clamp terminals 2 0.002...0.006 in ² (1...4 mm ²) - cable stiffness: solid Power circuit: EverLink BTR screw connectors 1 0.002...0.05 in ² (1...35 mm ²) - cable stiffness: flexible without cable end Power circuit: EverLink BTR screw connectors 1 0.002...0.05 in ² (1...35 mm ²) - cable stiffness: flexible with cable end Power circuit: EverLink BTR screw connectors 1 0.002...0.05 in ² (1...35 mm ²) - cable stiffness: solid Power circuit: EverLink BTR screw connectors 2 0.002...0.04 in ² (1...25 mm ²) - cable stiffness: flexible without cable end Power circuit: EverLink BTR screw connectors 2 0.002...0.04 in ² (1...25 mm ²) - cable stiffness: flexible with cable end Power circuit: EverLink BTR screw connectors 2 0.002...0.04 in ² (1...25 mm ²) - cable stiffness: solid |
| Tightening torque | Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2 Power circuit 70.8 lbf.in (8 N.m) EverLink BTR screw connectors 0.04...0.05 in ² (25...35 mm ²) hexagonal 0.2 in (4 mm) Power circuit 44.3 lbf.in (5 N.m) EverLink BTR screw connectors 0.002...0.04 in ² (1...25 mm ²) hexagonal 0.2 in (4 mm) Power circuit 44.3 lbf.in (5 N.m) pozidriv No 2 Control circuit 15.05 lbf.in (1.7 N.m) pozidriv No 2 |
| Auxiliary contact composition | 1 NO + 1 NC |
| Auxiliary contacts type | Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1 |
| Signalling circuit frequency | 25...400 Hz |
| Minimum switching voltage | 17 V for signalling circuit |
| Minimum switching current | 5 MA for signalling circuit |
| Insulation resistance | > 10 MOhm for signalling circuit |

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| 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

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| Standards | EN/IEC 60947-4-1 EN/IEC 60947-5-1 UL 60947-4-1 CSA C22.2 No 60947-4-1 IEC 60335-1 |
| Product Certifications | CCC[RETURN]CSA[RETURN]EAC[RETURN]UL[RETURN]KC[RETURN]DNV-GL[RE- TURN]LROS (Lloyds register of shipping)[RETURN]UKCA |
| IP degree of protection | IP20 front face IEC 60529 |
| Climatic withstand | IACS E10 exposure to damp heat IEC 60947-1 Annex Q category D exposure to damp heat |
| Permissible ambient air temperature around the device | -40...140 °F (-40...60 °C) 140...158 °F (60...70 °C) with derating |
| Operating altitude | 0...9842.52 ft (0...3000 m) |
| Fire resistance | 1562 °F (850 °C) IEC 60695-2-1 |
| Flame retardance | V1 conforming to UL 94 |
| Mechanical robustness | Vibrations contactor open 2 Gn, 5...300 Hz) Vibrations contactor closed 4 Gn, 5...300 Hz) Shocks contactor open 10 Gn for 11 ms) Shocks contactor closed 15 Gn for 11 ms) |
| Height | 4.8 In (122 mm) |
| Width | 2.2 In (55 mm) |
| Depth | 4.7 In (120 mm) |
| Net Weight | 2.209 Lb(US) (1.002 kg) |

Ordering and shipping details

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| Category | US1011222356 |
| Discount Schedule | 0112 |
| GTIN | 3606480988288 |
| Returnability | Yes |
| Country of origin | FR |

Packing Units

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| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 2.362 In (6.000 cm) |
| Package 1 Width | 5.433 In (13.800 cm) |
| Package 1 Length | 5.984 In (15.200 cm) |
| Package 1 Weight | 2.326 Lb(US) (1.055 kg) |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 9 |
| Package 2 Height | 5.906 In (15.000 cm) |
| Package 2 Width | 11.811 In (30.000 cm) |
| Package 2 Length | 15.748 In (40.000 cm) |
| Package 2 Weight | 21.599 Lb(US) (9.797 kg) |

Offer Sustainability

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| Sustainable offer status | Green Premium product |
| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Compliant with Exemptions |
| Mercury free | Yes |
| Sustainable packaging | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS Declaration |
| Environmental Disclosure | Product Environmental Profile |
| 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. |

Contractual warranty

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| Warranty | 18 months |
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Product Life Status : **Commercialised**