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| Range | TeSys |
| Product name | TeSys D Green |
| Product or component type | Contactors |
| Device short name | LC1D |
| Contactors application | Resistive load Motor control |
| Utilisation category | AC-1 AC-3 |
| Poles description | 3P |
| Power pole contact composition | 3 NO |
| [Ue] rated operational voltage | Power circuit: ≤ 690 V AC 25...400 Hz |
| [Ie] rated operational current | 80 A (at ≤ 60 °C) at ≤ 440 V AC-1 for power circuit 50 A (at ≤ 60 °C) at ≤ 440 V AC-3 for power circuit |
| Motor power kW | 15 kW at 220...230 V AC 50 Hz (AC-3) 22 kW at 380...400 V AC 50 Hz (AC-3) 25 kW at 415 V AC 50 Hz (AC-3) 30 kW at 440 V AC 50 Hz (AC-3) 30 kW at 500 V AC 50 Hz (AC-3) 33 kW at 660...690 V AC 50 Hz (AC-3) |
| Motor power HP (UL / CSA) | 3 hp at 115 V AC 60 Hz for 1 phase motors 7.5 hp at 230/240 V AC 60 Hz for 1 phase motors 15 hp at 200/208 V AC 60 Hz for 3 phases motors 15 hp at 230/240 V AC 60 Hz for 3 phases motors 40 hp at 460/480 V AC 60 Hz for 3 phases motors 40 hp at 575/600 V AC 60 Hz for 3 phases motors |
| [Uc] control circuit voltage | 48...130 V AC 50/60 Hz 48...130 V DC |
| Coil type | AC/DC electronic |
| Auxiliary contact composition | 1 NO + 1 NC |
| [Uimp] rated impulse withstand voltage | 6 kV conforming to IEC 60947 |
| Overvoltage category | III |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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| [I _{th}] conventional free air thermal current | 80 A (at 60 °C) for power circuit 10 A (at 60 °C) for signalling circuit |
| I _{rms} rated making capacity | 900 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 | 900 A at 440 V for power circuit conforming to IEC 60947 |
| [I _{cw}] rated short-time withstand current | 84 A 40 °C - 10 min for power circuit 208 A 40 °C - 1 min for power circuit 400 A 40 °C - 10 s for power circuit 810 A 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 | 10 A gG for signalling circuit conforming to IEC 60947-5-1 100 A gG at ≤ 690 V coordination type 1 for power circuit 100 A gG at ≤ 690 V coordination type 2 for power circuit |
| Average impedance | 1.5 mΩ - I _{th} 80 A 50 Hz for power circuit |
| [U _i] rated insulation voltage | Power circuit: 690 V conforming to IEC 60947-4-1 Signalling circuit: 690 V conforming to IEC 60947-1 |
| Electrical durability | 1.8 Mcycles 42 A AC-3 at U _e ≤ 440 V 0.5 Mcycles 80 A AC-1 at U _e ≤ 440 V |
| Power dissipation per pole | 9.6 W AC-1 3.7 W AC-3 |
| Safety cover | With |
| Mounting support | Rail Plate |
| Standards | EN/IEC 60947-4-1 EN/IEC 60947-5-1 UL 60947-4-1 CSA C22.2 No 60947-4-1 |
| Product certifications | CCC CSA EAC UL KC DNV-GL LROS (Lloyds register of shipping) |
| Connections - terminals | Power circuit: lugs-ring terminals (external diameter: 16.5 mm) Control circuit: lugs-ring terminals (external diameter: 8 mm) |
| Tightening torque | Control circuit: 1.7 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm M3.5 Control circuit: 1.7 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5 Power circuit: 6 N.m - on lugs-ring terminals hexagonal screw head 10 mm M6 |
| Operating time | 55...65 ms closing 20...80 ms opening |
| 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 |
| Maximum operating rate | 3600 cyc/h 60 °C |

Complementary

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| Coil technology | Built-in bidirectional peak limiting |
| Control circuit voltage limits | ≤ 0.1 U _c 60 °C drop-out 0.85...1.1 U _c 60 °C operational |
| Inrush power in VA | 23 VA 50/60 Hz (at 20 °C) |
| Inrush power in W | 19 W at 20 °C |
| Hold-in power consumption in VA | 1.4 VA (at 20 °C) 50/60 Hz |
| Hold-in power consumption in W | 0.9 W at 20 °C |
| Heat dissipation | 0.9 W at 50/60 Hz |
| 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 | 25...400 Hz |
| Minimum switching current | 5 mA for signalling circuit |

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| Minimum switching voltage | 17 V 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 |
| Insulation resistance | > 10 MOhm for signalling circuit |

Environment

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| IP degree of protection | IP20 front face conforming to IEC 60529 |
| Protective treatment | TH conforming to IEC 60068-2-30 |
| Pollution degree | 3 |
| Ambient air temperature for operation | -25...60 °C |
| Ambient air temperature for storage | -60...80 °C |
| Permissible ambient air temperature around the device | -40...70 °C at U _c |
| Operating altitude | 3000 m without |
| Fire resistance | 850 °C conforming to 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 | 122 mm |
| Width | 55 mm |
| Depth | 120 mm |
| Net weight | 0.997 kg |
| Colour | Grey (SE GREY 6) Green (SE GREEN 2) |

Offer Sustainability

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| Sustainable offer status | Green Premium product |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS declaration Product out of China RoHS scope. Substance declaration for your information |
| 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 |
| Halogen content performance | Halogen free plastic parts & cables product |

Contractual warranty

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| Warranty | 18 months |
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