

Product data sheet
Characteristics



LC1D09B5

TeSys D sklopnik 3P 9A AC-3 - 1NO+1NC -
24V 50Hz





Main

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| Range | TeSys |
| Product name | TeSys D |
| Product or component type | Contacteur |
| Device short name | LC1D |
| Contacteur application | Motor control Resistive load |
| Utilisation category | AC-1 AC-3 AC-4 |
| Poles description | 3P |
| Power pole contact composition | 3 NO |
| [Ue] rated operational voltage | Power circuit <= 690 V AC 50 Hz Power circuit <= 300 V DC |
| [Ie] rated operational current | 9 A 60 °C) <= 440 V AC-3 power circuit 25 A 60 °C) <= 440 V AC-1 power circuit |
| Motor power kW | 2,2 KW 220...230 V AC 50 Hz AC-3) 4 KW 380...400 V AC 50 Hz AC-3) 4 KW 415...440 V AC 50 Hz AC-3) 5,5 KW 500 V AC 50 Hz AC-3) 5,5 KW 660...690 V AC 50 Hz AC-3) 2,2 kW 400 V AC 50 Hz AC-4) |
| Control circuit type | AC 50 Hz |
| [Uc] control circuit voltage | 24 V AC 50 Hz |
| Auxiliary contact composition | 1 NO + 1 NC |
| [Uimp] rated impulse withstand voltage | 6 kV IEC 60947 |
| Overvoltage category | III |
| [Ith] conventional free air thermal current | 25 A 60 °C power circuit 10 A 60 °C signalling circuit |
| Irms rated making capacity | 250 A 440 V power circuit IEC 60947 140 A AC signalling circuit IEC 60947-5-1 250 A DC signalling circuit IEC 60947-5-1 |
| Rated breaking capacity | 250 A 440 V power circuit IEC 60947 |
| [Icw] rated short-time withstand current | 30 A 40 °C - 10 min power circuit 61 A 40 °C - 1 min power circuit 105 A 40 °C - 10 s power circuit 210 A 40 °C - 1 s power circuit 100 A - 1 s signalling circuit 120 A - 500 ms signalling circuit 140 A - 100 ms signalling circuit |
| Associated fuse rating | 10 A gG signalling circuit IEC 60947-5-1 25 A gG <= 690 V type 1 power circuit 20 A gG <= 690 V type 2 power circuit |
| Average impedance | 2,5 mOhm - Ith 25 A 50 Hz power circuit |
| [Ui] rated insulation voltage | Power circuit 690 V IEC 60947-4-1 Power circuit 600 V CSA Power circuit 600 V UL Signalling circuit 690 V IEC 60947-1 Signalling circuit 600 V CSA Signalling circuit 600 V UL |
| Electrical durability | 2 Mcycles 9 A AC-3 <= 440 V 0,6 Mcycles 25 A AC-1 <= 440 V |
| Power dissipation per pole | 0,2 W AC-3 1,56 W AC-1 |
| Front cover | With |
| Mounting support | Rail Plate |

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| Standards | IEC 60947-4-1 EN/IEC 60947-1 IEC 60947-5-1 EN/IEC 60947-5-1 UL 60947-4-1 CSA C22.2 No 60947-4-1 |
| Product certifications | UL CSA CCC EAC KC LROS (Lloyds register of shipping) DNV-GL RINA BV |
| Connections - terminals | Power circuit screw clamp terminals 1 1... 4 mm ² flexible without cable end Power circuit screw clamp terminals 2 1... 4 mm ² flexible without cable end Power circuit screw clamp terminals 1 1... 4 mm ² flexible with cable end Power circuit screw clamp terminals 2 1... 2,5 mm ² flexible with cable end Power circuit screw clamp terminals 1 1... 4 mm ² solid without cable end Power circuit screw clamp terminals 2 1... 4 mm ² solid without cable end Control circuit screw clamp terminals 1 1... 4 mm ² flexible without cable end Control circuit screw clamp terminals 2 1... 4 mm ² flexible without cable end Control circuit screw clamp terminals 1 1... 4 mm ² flexible with cable end Control circuit screw clamp terminals 2 1... 2,5 mm ² flexible with cable end Control circuit screw clamp terminals 1 1... 4 mm ² solid without cable end Control circuit screw clamp terminals 2 1... 4 mm ² solid without cable end |
| Tightening torque | Power circuit 1,7 N.m screw clamp terminals flat Ø 6 mm Power circuit 1,7 N.m screw clamp terminals Philips No 2 Control circuit 1,7 N.m screw clamp terminals flat Ø 6 mm Control circuit 1,7 N.m screw clamp terminals Philips No 2 |
| Operating time | 12...22 ms closing 4...19 ms opening |
| 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 | 15 Mcycles |
| Maximum operating rate | 3600 cyc/h 60 °C |

Complementary

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| Coil technology | Without built-in suppressor module |
| Control circuit voltage limits | 0.3...0.6 U _c -40...70 °C drop-out AC 50 Hz 0.8...1.1 U _c -40...60 °C operational AC 50 Hz 1...1.1 U _c 60...70 °C operational AC 50 Hz |
| Inrush power in VA | 70 VA 50 Hz 0,75 20 °C) |
| Hold-in power consumption in VA | 7 VA 50 Hz 0,3 20 °C) |
| Heat dissipation | 2...3 W 50 Hz |
| 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 current | 5 mA signalling circuit |
| Minimum switching voltage | 17 V 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 |

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| Insulation resistance | > 10 MOhm signalling circuit |
| Contact compatibility | M2 |
| Compatibility code | LC1D |
| Motor power range | 1,1...2 KW 200...240 V 3 phases 2,2...3 KW 380...440 V 3 phases 4...6 KW 380...440 V 3 phases 4...6 kW 480...500 V 3 phases |
| Motor starter type | Direct on-line contactor |
| Contactor coil voltage | 24 V AC standard |

Environment

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| IP degree of protection | IP20 front face IEC 60529 |
| Protective treatment | TH IEC 60068-2-30 |
| Pollution degree | 3 |
| Ambient air temperature for operation | -40...60 °C 60...70 °C with derating |
| Ambient air temperature for storage | -60...80 °C |
| Operating altitude | 0...3000 m |
| Fire resistance | 850 °C IEC 60695-2-1 |
| Flame retardance | V1 UL 94 |
| Mechanical robustness | Vibrations contactor open2 Gn, 5...300 Hz Vibrations contactor closed4 Gn, 5...300 Hz Shocks contactor open10 Gn for 11 ms Shocks contactor closed15 Gn for 11 ms |
| Maksimalna visina | 77 mm |
| Maksimalna širina | 45 mm |
| Maksimalna dubina | 86 mm |
| Neto težina | 0,32 kg |

Offer Sustainability

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| Status održive ponude | Proizvod Green Premium |
| Uredba REACH | Izjava REACH |
| REACH, bez SVHC | Da |
| Direktiva EU RoHS | Sukladno Izjava EU RoHS |
| Bez otrovnih teških metala | Da |
| Bez žive | Da |
| Informacije o RoHS izuzeću | Da |
| Propis RoHS za Kinu | Izjava RoHS Za Kinu |
| Izjava o očuvanju okoliša | Ekološki Profil Proizvoda |
| Profil cirkularnosti | Informacije O Kraju Vijeka Trajanja |
| WEEE | Proizvod se na tržištima EU mora odlagati u skladu sa specifičnim propisima o prikupljanju otpada; nikako se ne smije odlagati s komunalnim otpadom. |
| Bez PVC-a | Da |

Contractual warranty

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| Jamstvo | 18 months |
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