

Product data sheet
Characteristics



LC1D65AJD

TeSys D contactor - 3P(3 NO) - AC-3 - ≤ 440
V 65 A - 12 V DC standard coil





Main

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| Range | TeSys |
| Product name | TeSys D |
| Product or component type | Contacteur |
| Device short name | LC1D |
| Contacteur application | Resistive load Motor control |
| Utilisation category | AC-3 AC-1 AC-4 |
| Poles description | 3P |
| Power pole contact composition | 3 NO |
| [Ue] rated operational voltage | Power circuit <= 690 V AC 25...400 Hz Power circuit <= 300 V DC |
| [Ie] rated operational current | 80 A 60 °C) <= 440 V AC AC-1 power circuit 65 A 60 °C) <= 440 V AC AC-3 power circuit |
| Motor power kW | 11 KW 400 V AC 50/60 Hz AC-4) 18,5 KW 220...230 V AC 50/60 Hz AC-3) 30 KW 380...400 V AC 50/60 Hz AC-3) 37 KW 500 V AC 50/60 Hz AC-3) 37 kW 660...690 V AC 50/60 Hz AC-3) |
| Motor power HP (UL / CSA) | 40 Hp 460/480 V AC 50/60 Hz 3 phases 5 Hp 115 V AC 50/60 Hz 1 phase 10 Hp 230/240 V AC 50/60 Hz 1 phase 20 Hp 200/208 V AC 50/60 Hz 3 phases 20 Hp 230/240 V AC 50/60 Hz 3 phases 50 hp 575/600 V AC 50/60 Hz 3 phases |
| Control circuit type | DC standard |
| [Uc] control circuit voltage | 12 V DC |
| 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 | 10 A 60 °C signalling circuit 80 A 60 °C power circuit |
| Irms rated making capacity | 140 A AC signalling circuit IEC 60947-5-1 250 A DC signalling circuit IEC 60947-5-1 1000 A 440 V power circuit IEC 60947 |
| Rated breaking capacity | 1000 A 440 V power circuit IEC 60947 |
| [Icw] rated short-time withstand current | 520 A 40 °C - 10 s power circuit 900 A 40 °C - 1 s power circuit 110 A 40 °C - 10 min power circuit 260 A 40 °C - 1 min 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 60947-5-1 125 A gG <= 690 V type 1 power circuit 125 A gG <= 690 V type 2 power circuit |
| Average impedance | 1,5 mOhm - Ith 80 A 50 Hz power circuit |
| [Ui] rated insulation voltage | 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 Power circuit 690 V IEC 60947-4-1 |
| Electrical durability | 0,5 Mcycles 80 A AC-1 <= 440 V 1,45 Mcycles 65 A AC-3 <= 440 V |
| Power dissipation per pole | 9,6 W AC-1 6,3 W AC-3 |
| Front cover | With |

| | |
|--------------------------|--|
| Mounting support | Rail Plate |
| Standards | CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 |
| Product certifications | CCC GOST CSA UL |
| Connections - terminals | 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 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 1 1... 4 mm ² solid without cable end Control circuit screw clamp terminals 2 1... 4 mm ² solid without cable end Power circuit EverLink BTR screw connectors 1 1... 35 mm ² flexible without cable end Power circuit EverLink BTR screw connectors 2 1... 25 mm ² flexible without cable end Power circuit EverLink BTR screw connectors 1 1... 35 mm ² flexible with cable end Power circuit EverLink BTR screw connectors 2 1... 25 mm ² flexible with cable end Power circuit EverLink BTR screw connectors 1 1... 35 mm ² solid without cable end Power circuit EverLink BTR screw connectors 2 1... 25 mm ² solid without cable end |
| Tightening torque | 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 Power circuit 8 N.m EverLink BTR screw connectors 25...35 mm ² hexagonal 4 mm Power circuit 5 N.m EverLink BTR screw connectors 1...25 mm ² hexagonal 4 mm |
| Operating time | 42.5...57.5 ms closing 16...24 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 | 10 Mcycles |
| Maximum operating rate | 3600 cyc/h 60 °C |

Complementary

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|--------------------------------|--|
| Coil technology | Built-in bidirectional peak limiting diode suppressor |
| Control circuit voltage limits | 0.1...0.3 U _c -40...70 °C drop-out DC 0.75...1.25 U _c -40...60 °C operational DC 1...1.25 U _c 60...70 °C operational DC |
| Time constant | 34 ms |
| Inrush power in W | 19 W 20 °C) |
| Hold-in power consumption in W | 7,4 W 20 °C |
| 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 |
| Insulation resistance | > 10 MOhm signalling circuit |

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| Contact compatibility | M4 |
| Compatibility code | LC1D |

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 closed15 Gn for 11 ms Shocks contactor open10 Gn for 11 ms |
| Maksimalna visina | 122 mm |
| Maksimalna širina | 55 mm |
| Maksimalna dubina | 120 mm |
| Neto težina | 0,935 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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