Lembar data produk Karakteristik

LC1D128F7

TeSys D contactor - 4P(2 NO + 2 NC) - AC-1 - <= 440 V 25 A - 110 V AC coil



Contactor application

Control circuit type

| Main | | |
|---------------------------|-----------|--|
| Range | TeSys | |
| Product name | TeSys D | |
| Product or component type | Contactor | |
| Device short name | LC1D | |

Resistive load

AC 50/60 Hz

| Utilisation category | AC-1 | |
|--------------------------------|---|--|
| Poles description | 4P | |
| Power pole contact composition | 2 NO + 2 NC | |
| [Ue] rated operational voltage | ge <= 300 V DC for power circuit <= 690 V AC 25400 Hz for power circuit | |
| [le] rated operational current | 25 A (<= 60 °C) at <= 440 V AC AC-1 for power circuit | |

| [Uc] control circuit voltage | 110 V AC 50/60 Hz |
|--|------------------------------|
| Auxiliary contact composition | 1 NO + 1 NC |
| [Uimp] rated impulse withstand voltage | 6 kV conforming to IEC 60947 |
| Overvoltage category | III |

| current 10 A at <= 60 °C for signalling circu | [Ith] conventional free air thermal current | 25 A at <= 60 °C for power circuit 10 A at <= 60 °C for signalling circuit |
|---|---|--|
|---|---|--|

| Irms rated making capacity | 250 A at 440 V for power circuit conforming to IEC 60947 140 A AC for signalling circuit conforming to IEC 60947-5-250 A DC for signalling circuit conforming to IEC 60947-5- |
|----------------------------|---|
| Rated breaking capacity | 250 A at 440 V for power circuit conforming to IEC 60947 |

| Rated breaking capacity | 250 A at 440 V for power circuit conforming to IEC |
|--|--|
| [lcw] rated short-time withstand current | 105 A <= 40 °C 10 s power circuit |

| 210 A <= 40 °C 1 s power circuit |
|------------------------------------|
| 30 A <= 40 °C 10 min power circuit |
| 61 A <= 40 °C 1 min power circuit |

| 61 A <= 40 °C 1 min power c |
|-------------------------------|
| 100 A 1 s signalling circuit |
| 120 A 500 ms signalling circu |

| | 140 A 100 ms signalling circuit |
|------------------------|---|
| Associated fuse rating | 25 A gG at <= 690 V coordination type 2 for power circuit |
| | 40 A gG at <= 690 V coordination type 1 for power circuit |

| | 40 A gG at <= 690 V coordination type 1 for power circuit |
|-------------------|--|
| | 10 A gG for signalling circuit conforming to IEC 60947-5-1 |
| Average impedance | 2.5 mOhm at 50 Hz - Ith 25 A for power circuit |

| [Ui] rated insulation voltage | 600 V for power circuit certifications CSA |
|-------------------------------|--|
| | 600 V for power circuit cortifications III |

600 V for power circuit certifications UL 690 V for power circuit conforming to IEC 60947-4-1

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| | 690 V for signalling circuit conforming to IEC 60947-1 600 V for signalling circuit certifications CSA 600 V for signalling circuit certifications UL |
|---------------------------------|--|
| Electrical durability | 0.8 Mcycles 25 A AC-1 at Ue <= 440 V |
| Power dissipation per pole | 1.56 W AC-1 |
| Safety cover | With |
| Mounting support | Plate Rail |
| 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 | BV CCC CSA DNV GL GOST LROS (Lloyds register of shipping) RINA UL |
| Connections - terminals | Control circuit: screw clamp terminals 2 cable(s) 12.5 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - with cable end |
| | Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: solid - without cable end Power circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - without cable |
| | end Power circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 2 cable(s) 12.5 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: solid - without cable end Power circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: solid - without cable end |
| Tightening torque | Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 |
| Operating time | 419 ms opening 1222 ms closing |
| 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 | 15 Mcycles |
| Operating rate | 3600 cyc/h at <= 60 °C |
| Complementary | |
| Coil technology | Without built-in suppressor module |
| Control circuit voltage limits | 0.30.6 Uc drop-out at 60 °C, AC 50/60 Hz 0.81.1 Uc operational at 60 °C, AC 50 Hz 0.851.1 Uc operational at 60 °C, AC 60 Hz |
| Inrush power in VA | 70 VA at 20 °C (cos φ 0.75) 60 Hz 70 VA at 20 °C (cos φ 0.75) 50 Hz |
| Hold-in power consumption in VA | 7.5 VA at 20 °C (cos φ 0.3) 60 Hz 7 VA at 20 °C (cos φ 0.3) 50 Hz |
| Heat dissipation | 23 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 | 25400 Hz |
| Minimum switching current | 5 mA for signalling circuit |

| Minimum switching voltage | 17 V for signalling circuit |
|---------------------------|--|
| Non-overlap time | 1.5 ms on energisation between NC and NO contact1.5 ms on de-energisation between NC and NO contact |
| Insulation resistance | > 10 MOhm for signalling circuit |

Environment

| 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 | -560 °C |
| Ambient air temperature for storage | -6080 °C |
| Permissible ambient air temperature around the device | -4070 °C at Uc |
| Operating altitude | 3000 m without derating in temperature |
| 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 open 10 Gn for 11 ms Shocks contactor closed 15 Gn for 11 ms |
| Height | 85 mm |
| Width | 45 mm |
| Depth | 92 mm |
| Product weight | 0.365 kg |
| | |

Contractual warranty

| Contractual warranty | | |
|----------------------|-----------|--|
| Warranty period | 18 months | |