



Product availability : Stock - Normally stocked in distribution facility



Main

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| Range of product | TeSys F |
| Range | TeSys |
| Product name | TeSys F |
| Product or component type | Contactor |
| Device short name | LC1F |
| Contactor application | Resistive load Motor control |
| Motor power kW | 335 kW at 380...400 V AC 50/60 Hz AC-3 375 kW at 415 V AC 50/60 Hz AC-3 400 kW at 440 V AC 50/60 Hz AC-3 400 kW at 500 V AC 50/60 Hz AC-3 450 kW at 660...690 V AC 50/60 Hz AC-3 450 kW at 1000 V AC 50/60 Hz AC-3 200 kW at 220...230 V AC 50/60 Hz AC-3 100 kW at 400 V AC 50/60 Hz AC-4 |
| Control circuit type | AC 40...400 Hz |
| [Uc] control circuit voltage | 110 V AC 40...400 Hz |
| [Uimp] rated impulse withstand voltage | 8 kV |
| Overvoltage category | III |
| [Ith] conventional free air thermal current | 1000 A at ≤ 104 °F (40 °C) 1250 A |
| Rated breaking capacity | 5040 A conforming to IEC 60947-4-1 |
| [Icw] rated short-time withstand current | 5050 A ≤ 104 °F (40 °C) 10 s 4400 A ≤ 104 °F (40 °C) 30 s 3400 A ≤ 104 °F (40 °C) 1 min 2200 A ≤ 104 °F (40 °C) 3 min 1600 A ≤ 104 °F (40 °C) 10 min |
| Associated fuse rating | 630 A aM at ≤ 440 V 1000 A gG at ≤ 440 V |
| Average impedance | 0.12 mOhm at 50 Hz - Ith 1000 A |

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| [Ui] rated insulation voltage | 1000 V conforming to IEC 60947-4-1 1500 V conforming to VDE 0110 group C |
| Power dissipation per pole | 120 W AC-1 48 W AC-3 |
| Mounting support | Plate |
| Standards | JEM 1038 IEC 60947-4-1 EN 60947-4-1 IEC 60947-1 EN 60947-1 |
| Product certifications | GL DNV CSA LROS (Lloyds register of shipping) CCC UL BV RMRoS |
| Connections - terminals | Control circuit: screw clamp terminals 2 cable(s) 0...0 in ² (1...2.5 mm ²) - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 0...0.01 in ² (1...4 mm ²) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 0...0.01 in ² (1...4 mm ²) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 0...0.01 in ² (1...4 mm ²) - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 0...0.01 in ² (1...4 mm ²) - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 0...0.01 in ² (1...4 mm ²) - cable stiffness: solid - without cable end Power circuit: bar 2 x (60 x 5 mm) Power circuit : bolted connection |
| Tightening torque | Control circuit: 10.62 lbf.in (1.2 N.m) Power circuit: 513.27 lbf.in (58 N.m) |
| Operating time | 100...200 ms opening 40...80 ms closing |
| Mechanical durability | 5 Mcycles |
| Operating rate | 1200 cyc/h at ≤ 131 °F (55 °C) |

Complementary

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| Utilisation category | AC-1 AC-4 AC-3 |
| Poles description | 3P |
| Pole contact composition | 3 NO |
| System Voltage | ≤ 1000 V AC 50/60 Hz ≤ 460 V DC |
| [Ie] rated operational current | 1000 A (≤ 104 °F (40 °C)) at ≤ 440 V AC AC-1 630 A (≤ 131 °F (55 °C)) at ≤ 440 V AC AC-3 |
| Control circuit voltage limits | 0.85...1.1 Uc at 131 °F (55 °C) operational 40...400 Hz 0.25...0.5 Uc at 131 °F (55 °C) drop-out 40...400 Hz |
| Inrush power in VA | 1650 VA at 68 °F (20 °C) (cos φ 0.9) 40...400 Hz |
| Hold-in power consumption in VA | 22 VA at 68 °F (20 °C) (cos φ 0.9) 40...400 Hz |
| Heat dissipation | 20 W |
| Power range | 250...500 kW 380...440 V 3 phases 110...220 kW 200...240 V 3 phases 250...500 kW 480...500 V 3 phases |
| Motor starter type | Direct on-line contactor |
| Contactor coil voltage | 120 V AC 110 V AC standard |

Environment

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| IP degree of protection | IP20 front face with shrouds (ordered separately) conforming to IEC 60529 |
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IP20 front face with shrouds (ordered separately) conforming to VDE 0106

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| Protective treatment | TH |
| Ambient air temperature for operation | 23...131 °F (-5...55 °C) |
| Ambient air temperature for storage | -76...176 °F (-60...80 °C) |
| Permissible ambient air temperature around the device | -40...158 °F (-40...70 °C) |
| Operating altitude | 9842.52 ft (3000 m) without derating in temperature |
| Mechanical robustness | Shocks contactor open 9 Gn for 11 ms Vibrations contactor open 2 Gn, 5...300 Hz Vibrations contactor closed 4 Gn, 5...300 Hz Shocks contactor closed 15 Gn for 11 ms |
| Height | 10.04 in (255 mm) |
| Width | 12.17 in (309 mm) |
| Depth | 11.97 in (304 mm) |
| Product weight | 41.01 lb(US) (18.6 kg) |

Ordering and shipping details

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| Category | 22336 - CTR,F-LINE,AC,OPEN,NONREV |
| Discount Schedule | I12 |
| GTIN | 00785901149040 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 40.829999999999998 |
| Returnability | Y |
| Country of origin | CZ |

Offer Sustainability

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| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 0843 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold |
| Product environmental profile | Available |
| Product end of life instructions | Available |

Contractual warranty

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| Warranty period | 18 months |
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