



Main

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| Range | TeSys |
| Product name | TeSys F |
| Product or component type | Contacteur |
| Device short name | LC1F |
| Contacteur application | Motor control Resistive load |
| Utilisation category | AC-1 AC-3 AC-4 |
| Poles description | 3P |
| Pole contact composition | 3 NO |
| [Ue] rated operational voltage | <= 1000 V AC 50/60 Hz <= 460 V DC |
| [Ie] rated operational current | 500 A (<= 40 °C) at <= 440 V AC AC-1 400 A (<= 55 °C) at <= 440 V AC AC-3 |
| Motor power kW | 75 kW at 400 V AC 50/60 Hz AC-4 200 kW at 380...400 V AC 50/60 Hz AC-3 220 kW at 415 V AC 50/60 Hz AC-3 250 kW at 440 V AC 50/60 Hz AC-3 257 kW at 500 V AC 50/60 Hz AC-3 185 kW at 1000 V AC 50/60 Hz AC-3 110 kW at 220...230 V AC 50/60 Hz AC-3 280 kW at 660...690 V AC 50/60 Hz AC-3 |
| [Uc] control circuit voltage | 415 V AC 40...400 Hz |

Complementary

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|---|--|
| [Uimp] rated impulse withstand voltage | 8 kV |
| Overvoltage category | III |
| [Ith] conventional free air thermal current | 500 A at <= 40 °C |
| Rated breaking capacity | 3200 A conforming to IEC 60947-4-1 |
| [Icw] rated short-time withstand current | 3600 A <= 40 °C 10 s 2400 A <= 40 °C 30 s 1700 A <= 40 °C 1 min 1200 A <= 40 °C 3 min 1000 A <= 40 °C 10 min |
| Associated fuse rating | 400 A aM at <= 440 V 500 A gG at <= 440 V |
| Average impedance | 0.26 mOhm at 50 Hz - Ith 500 A |
| [Ui] rated insulation voltage | 1000 V conforming to IEC 60947-4-1 1500 V conforming to VDE 0110 group C |
| Power dissipation per pole | 42 W AC-3 65 W AC-1 |
| Mounting support | Plate |
| Standards | EN 60947-1 EN 60947-4-1 IEC 60947-1 IEC 60947-4-1 JIS C8201-4-1 |
| Product certifications | ABS BV CCC DNV LROS (Lloyds register of shipping) RINA |

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RMRoS
UL
CB

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|---------------------------------|--|
| Connections - terminals | Control circuit : screw clamp terminals 2 cable(s) 1...2.5 mm ² - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 1 cable(s) 1...4 mm ² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 2 cable(s) 1...4 mm ² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 1 cable(s) 1...4 mm ² - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 1 cable(s) 1...4 mm ² - cable stiffness: solid - without cable end Control circuit : screw clamp terminals 2 cable(s) 1...4 mm ² - cable stiffness: solid - without cable end Power circuit : lugs-ring terminals 2 cable(s) 150 mm ² Power circuit : bolted connection Power circuit : bar 2 x (30 x 5 mm) |
| Tightening torque | Power circuit : 35 N.m Control circuit : 1.2 N.m |
| Control circuit voltage limits | 0.85...1.1 U _c at 55 °C operational 40...400 Hz 0.3...0.5 U _c at 55 °C drop-out 40...400 Hz |
| Inrush power in VA | 1075 VA at 20 °C (cos φ 0.9) 40...400 Hz |
| Hold-in power consumption in VA | 15 VA at 20 °C (cos φ 0.9) 40...400 Hz |
| Heat dissipation | 14 W |
| Operating time | 100...170 ms opening 40...65 ms closing |
| Mechanical durability | 10 Mcycles |
| Operating rate | 2400 cyc/h at ≤ 55 °C |

Environment

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|---|---|
| IP degree of protection | IP20 front face with shrouds (ordered separately) conforming to IEC 60529 IP20 front face with shrouds (ordered separately) conforming to VDE 0106 |
| protective treatment | TH |
| ambient air temperature for operation | -5...55 °C |
| ambient air temperature for storage | -60...80 °C |
| permissible ambient air temperature around the device | -40...70 °C |
| operating altitude | 3000 m without derating |
| mechanical robustness | Shocks resistance contactor closed 15 Gn for 11 ms Shocks resistance contactor open 6 Gn for 11 ms Vibrations resistance contactor closed 5 Gn, 5...300 Hz Vibrations resistance contactor open 1.5 Gn, 5...300 Hz |
| height | 206 mm |
| width | 213 mm |
| depth | 219 mm |
| product weight | 9.1 kg |

Offer Sustainability

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