

LC1F150V7

TeSys F contactor - 3P (3 NO) - AC-3 - <= 440 V
250 A - coil 400 V AC

Main

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|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range | TeSys |
| Product name | TeSys F |
| Product or component type | Contactor |
| Device short name | LC1F |
| Contactor application | Motor control Resistive load |
| Utilisation category | AC-1 AC-3 |
| 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 | 250 A (<= 40 °C) at <= 440 V AC AC-1 150 A (<= 55 °C) at <= 440 V AC AC-3 |
| Motor power kW | 40 kW at 220...230 V AC 50/60 Hz 65 kW at 1000 V AC 50/60 Hz 75 kW at 380...400 V AC 50/60 Hz 80 kW at 415 V AC 50/60 Hz 80 kW at 440 V AC 50/60 Hz 90 kW at 500 V AC 50/60 Hz 100 kW at 660...690 V AC 50/60 Hz |
| Control circuit type | AC 40...400 Hz |
| Control circuit voltage | 400 V AC 40...400 Hz |
| [Uimp] rated impulse withstand voltage | 8 kV |
| Overshoot category | III |
| [Ith] conventional free air thermal current | 250 A at <= 40 °C |
| Irms rated making capacity | 1500 A AC conforming to IEC 60947-4-1 |
| Rated breaking capacity | 1200 kA conforming to IEC 60947-4-1 |
| [Icw] rated short-time withstand current | 1200 A <= 40 °C 10 s 700 A <= 40 °C 30 s 600 A <= 40 °C 1 min 450 A <= 40 °C 3 min 350 A <= 40 °C 10 min |
| Associated fuse rating | 160 A aM at <= 440 V 250 A gG at <= 440 V |
| Average impedance | 0.35 mOhm at 50 Hz - Ith 250 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 | 22 W AC-1 8 W AC-3 |
| Mounting support | Plate |
| Standards | EN 60947-1 EN 60947-4-1 IEC 60947-1 IEC 60947-4-1 JEM 1038 |
| Product certifications | BV CCC CSA DNV GL RINA RMRoS |

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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 Power circuit : connector 1 cable(s) 120 mm ² 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 1 cable(s) 120 mm ² Power circuit : bar 2 x (25 x 3 mm) |
| Tightening torque | Control circuit : 1.2 N.m Power circuit : 18 N.m |
| Operating time | 23...35 ms closing 5...15 ms opening |
| Mechanical durability | 10 Mcycles |
| Operating rate | 2400 cyc/h at <= 55 °C |

Complementary

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| Control circuit voltage limits | 0.85...1.1 Uc at 55 °C operational 50/60 Hz 0.35...0.55 Uc at 55 °C drop-out 50/60 Hz |
| Inrush power in VA | 550 VA at 20 °C (cos φ 0.3) 50 Hz 660 VA at 20 °C (cos φ 0.3) 60 Hz |
| Hold-in power consumption in VA | 45 VA at 20 °C (cos φ 0.3) 50 Hz 55 VA at 20 °C (cos φ 0.3) 60 Hz |
| Heat dissipation | 12...16 W |

Environment

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| IP degree of protection | IP2x front face with shrouds (ordered separately) conforming to IEC 60529 IP2x 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 in temperature |
| Mechanical robustness | Vibrations contactor open 2 Gn, 5...300 Hz Shocks contactor closed 15 Gn for 11 ms Vibrations contactor closed 6 Gn, 5...300 Hz Shocks contactor open 9 Gn for 11 ms |
| Height | 170 mm |
| Width | 163.5 mm |
| Depth | 171 mm |
| Product weight | 3.43 kg |

Offer Sustainability

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|----------------------------------|-----------------------------------------------------------------------|
| Sustainable offer status | Green Premium product |
| RoHS | 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 |