

Product data sheet

Specifications



TeSys F reversing contactor - 3P(3 NO) AC-3 <= 440 V 150 A 110 V AC 40...400 Hz

LC2F150F7

⚠ Discontinued on: Oct 10, 2020

⚠ Discontinued

Main

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|---|--|
| Range | TeSys |
| Product Name | TeSys F |
| Product Or Component Type | Reversing contactor |
| Device Short Name | LC2F |
| Contactor Application | Resistive load Motor control |
| Utilisation Category | AC-3 AC-1 |
| Device Presentation | Preassembled with reversing power busbar |
| Poles Description | 3P |
| Power Pole Contact Composition | 3 NO |
| [Ue] Rated Operational Voltage | <= 1000 V AC 50/60 Hz <= 460 V DC |
| [Ie] Rated Operational Current | 150 A (at <40 °C) at <= 440 V AC AC-3 250 A (at <40 °C) at <= 440 V AC AC-1 |
| Motor Power Kw | 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 40 kW at 220...240 V AC 50/60 Hz 100 kW at 660...690 V AC 50/60 Hz |
| Control Circuit Type | AC at 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 | 250 A (at 40 °C) |
| Irms Rated Making Capacity | 1500 A AC conforming to IEC 60947-4-1 |
| Rated Breaking Capacity | 1200 A 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 | 125 A aM at <= 440 V 200 A gG at <= 440 V |
| Average Impedance | 0.35 mOhm - Ith 250 A 50 Hz |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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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 | 8 W AC-3 |
| Interlocking Type | Mechanical |
| Mounting Support | Plate |
| Standards | EN 60947-4-1 IEC 60947-4-1 EN 60947-1 IEC 60947-1 JIS C8201-4-1 |
| Product Certifications | CCC RINA ABS CB DNV UL LROS (Lloyds register of shipping) RMRoS CSA UKCA |
| Connections - Terminals | Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm ² flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm ² flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² solid without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm ² solid without cable end Power circuit: lugs-ring terminals 1 cable(s) 120 mm ² Power circuit: connector 1 cable(s) 120 mm ² Power circuit: bar 2 cable(s) - busbar cross section: 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 |
| Maximum Operating Rate | 2400 cyc/h 55 °C |

Complementary

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|---------------------------------|---|
| Control Circuit Voltage Limits | Operational: 0.85...1.1 Uc at 50/60 Hz (at <55 °C) Drop-out: 0.2...0.55 Uc at 50/60 Hz (at <55 °C) |
| Inrush Power In Va | 550 VA 50 Hz cos phi 0.3 (at 20 °C) 660 VA 60 Hz cos phi 0.3 (at 20 °C) |
| Hold-In Power Consumption In Va | 45 VA 50 Hz cos phi 0.3 (at 20 °C) 55 VA 60 Hz cos phi 0.3 (at 20 °C) |
| Heat Dissipation | 12...16 W |

Environment

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|---|---|
| Ip Degree Of Protection | IP20 front face with shrouds conforming to IEC 60529 IP20 front face with shrouds 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 |

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| Mechanical Robustness | Vibrations contactor open: 2 Gn, 5...300 Hz Vibrations contactor closed: 6 Gn, 5...300 Hz Shocks contactor open: 9 Gn for 11 ms Shocks contactor closed: 15 Gn for 11 ms |
| Height | 170 mm |
| Width | 345 mm |
| Depth | 171 mm |
| Net Weight | 7.66 kg |

Packing Units

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| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |

Contractual warranty

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| Warranty | 18 months |
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Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

Well-being performance

✓ Mercury Free

✓ Rohs Exemption Information [Yes](#)

Certifications & Standards

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|--------------------------|---|
| Eu Rohs Directive | Compliant EU RoHS Declaration |
| China Rohs Regulation | China RoHS declaration Product out of China RoHS scope. Substance declaration for your information |
| Environmental Disclosure | Product Environmental Profile |
| Weee | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| Circularity Profile | End of Life Information |