

Product datasheet

Specifications



TeSys F contactor - 4P(4 NO)-AC-1 ≤ 440V 1600A with coil LX1/ LX9 - 110...500V AC 40/400Hz, LX4 - 110...440V DC

Local distributor code:
2221023

LC1F7804

! Discontinued

! Discontinued on: 9 Feb 2023

EAN Code: 3389110227284

Main

| | |
|--------------------------------|---------------------------------------|
| Range | TeSys |
| Product name | TeSys F |
| product or component type | Contacteur |
| Device short name | LC1F |
| contactor application | Resistive load |
| Utilisation category | AC-1 |
| poles description | 4P |
| power pole contact composition | 4 NO |
| [Ue] rated operational voltage | ≤ 1000 V AC 50/60 Hz ≤ 460 V DC |
| [Ie] rated operational current | 1600 A (at <40 °C) at ≤ 440 V AC AC-1 |

Complementary

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|---|---|
| [Uc] control circuit voltage | 110...500 V AC 40...400 Hz with LX1/LX9 coil 48...440 V DC with LX4 coil |
| [Uimp] rated impulse withstand voltage | 8 kV |
| Overvoltage category | III |
| [Ith] conventional free air thermal current | 1600 A (at 40 °C) |
| Irms rated making capacity | 7800 A AC conforming to IEC 60947-4-1 |
| Rated breaking capacity | 6240 A conforming to IEC 60947-4-1 |
| [Icw] rated short-time withstand current | 3000 A 40 °C - 3 min 6250 A 40 °C - 10 s 5600 A 40 °C - 30 s 4600 A 40 °C - 1 min 2200 A 40 °C - 10 min |
| Associated fuse rating | 800 A aM at ≤ 440 V 1600 A gG at ≤ 440 V |
| Average impedance | 0.1 mOhm - Ith 1600 A 50 Hz |
| [Ui] rated insulation voltage | 1000 V conforming to IEC 60947-4-1 1500 V conforming to VDE 0110 group C |
| Power dissipation per pole | 250 W AC-1 |

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| Control circuit voltage limits | Operational: 0.85...1.1 Uc AC 40...400 Hz with LX1/LX9 coil Drop-out: 0.2...0.4 Uc AC 40...400 Hz with LX1/LX9 coil Operational: 0.85...1.1 Uc DC with LX4 coil Drop-out: 0.2...0.4 Uc DC with LX4 coil |
| Heat dissipation | 22 W |
| Operating time | 40...80 ms closing for with LX1/LX9 coil 130...230 ms opening for with LX1/LX9 coil 70...80 ms closing for with LX4 coil 100...130 ms opening for with LX4 coil |
| mounting support | Plate |
| Standards | IEC 60947-1 IEC 60947-4-1 EN 60947-1 JIS C8201-4-1 EN 60947-4-1 |
| Product certifications | UL LROS (Lloyds register of shipping) RINA DNV CCC BV CB ABS UKCA |
| Connections - terminals | Power circuit: bar 2 cable(s) - busbar cross section: 100 x 5 mm Power circuit: bolted connection 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 with 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 solid without cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² Control circuit: screw clamp terminals 2 cable(s) 1...4 mm ² |
| Tightening torque | Power circuit: 58 N.m Control circuit: 1.2 N.m |
| Mechanical durability | 5 Mcycles |
| Inrush power in VA | 1900...2300 VA, 40...400 Hz cos phi 0.9 (at 20 °C)with LX1/LX9 coil 1960...2420 VA (at 20 °C)with LX4 coil |
| Hold-in power consumption in VA | 44...55 VA, 40...400 Hz cos phi 0.9 (at 20 °C)with LX1/LX9 coil 42...52 VA (at 20 °C)with LX4 coil |
| Maximum operating rate | 600 cyc/h 55 °C |
| Compatibility code | LC1F |

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 |
| Mechanical robustness | Vibrations contactor open: 2.5 Gn, 5...300 Hz Vibrations contactor closed: 5.5 Gn, 5...300 Hz Shocks contactor open: 5 Gn for 1/2 sine wave (11 ms) Shocks contactor closed: 15 Gn for 1/2 sine wave (11 ms) |
| Height | 434 mm |
| Width | 862 mm |

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| Depth | 255 mm |
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| net weight | 48 kg |
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Packing Units

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| Unit Type of Package 1 | PCE |
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| Number of Units in Package 1 | 1 |
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| Package 1 Height | 41.0 cm |
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| Package 1 Width | 115.0 cm |
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| Package 1 Length | 44.0 cm |
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| Package 1 Weight | 47.5 kg |
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| Unit Type of Package 2 | PAL |
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| Number of Units in Package 2 | 2 |
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| Package 2 Height | 85.0 cm |
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| Package 2 Width | 120.0 cm |
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| Package 2 Length | 80.0 cm |
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| Package 2 Weight | 142.0 kg |
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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.

[Learn more about Green Premium >](#)

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

Well-being performance

 Mercury Free

 Rohs Exemption Information [Yes](#)

Reach Regulation [REACH Declaration](#)

Eu Rohs Directive Compliant with Exemptions

China Rohs Regulation [China RoHS declaration](#)
Product out of China RoHS scope. Substance declaration for your information

Weee The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins