

LC1F1700

TeSys F contactor - 3P(3 NO)-AC-1 \leq 1000 V
AC 1700 A with coil LX1/ LX9 - 110...500V AC
40/400Hz, LX4 - 110...440V DC



Main

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|--------------------------------|--|
| Range | TeSys |
| Product name | TeSys F |
| Product or Component Type | Contacteur |
| Device short name | LC1F |
| Contacteur application | Resistive load |
| Utilisation category | AC-1 |
| Poles description | 3P |
| Power pole contact composition | 3 NO |
| [Ue] rated operational voltage | \leq 1000 V AC 50/60 Hz \leq 460 V DC |
| [Ie] rated operational current | 1700 A 104 °F (40 °C) \leq 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 110...440 V DC with LX4 coil |
| [Uimp] rated impulse withstand voltage | 8 kV |
| Overvoltage category | III |
| [Ith] conventional free air thermal current | 1700 A 104 °F (40 °C) |
| Irms rated making capacity | 2550 A AC IEC 60947-4-1 |
| Rated breaking capacity | 2550 A IEC 60947-4-1 |
| [Icw] rated short-time withstand current | 10000 A 104 °F (40 °C) - 10 s power circuit 7500 A 104 °F (40 °C) - 30 s 5500 A 104 °F (40 °C) - 1 min 4200 A 104 °F (40 °C) - 3 min 3000 A 104 °F (40 °C) - 10 min |
| Associated fuse rating | 1600 A gG \leq 440 V power circuit IEC 60947-4-1 |
| Average impedance | 0.1 mOhm - Ith 1700 A 50 Hz |
| [Ui] rated insulation voltage | 1000 V IEC 60947-4-1 1500 V VDE 0110 group C 1000 V UL 60947-4-1 |
| Power dissipation per pole | 200 W AC-1 |
| Control circuit voltage limits | Operational 0.85...1.1 U _c AC 40...400 Hz Drop-out 0.3...0.5 U _c AC 40...400 Hz Operational 0.85...1.1 U _c DC Drop-out 0.2...0.35 U _c DC |
| Heat dissipation | 18 W |
| Operating time | 40...75 ms closing with LX1/LX9 coil 100...170 ms opening with LX1/LX9 coil 50...60 ms closing with LX4 coil 45...60 ms opening with LX4 coil |
| Mounting Support | Plate |
| Standards | EN 60947-1 JIS C8201-4-1 IEC 60947-1 EN 60947-4-1 IEC 60947-4-1 UL 60947-4-1A CSA C22.2 No 60947-4-1 |

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| Product Certifications | CB Scheme CCC CSA UL EAC UKCA |
| Connections - terminals | Power circuit bar 3 100 x 5 mm Power circuit bolted connection Control circuit screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²)flexible without cable end Control circuit screw clamp terminals 2 0.00...0.01 in ² (1...4 mm ²)flexible with cable end Control circuit screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²)flexible with cable end Control circuit screw clamp terminals 2 0.00...0.00 in ² (1...2.5 mm ²)solid without cable end Control circuit screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²) Control circuit screw clamp terminals 2 0.00...0.01 in ² (1...4 mm ²) |
| Tightening torque | Power circuit 513.34 lbf.in (58 N.m) Control circuit 10.62 lbf.in (1.2 N.m) |
| Mechanical durability | 0.5 Mcycles |
| Inrush power in VA | 1600...2400 VA, 40...400 Hz cos phi 0.9 (at 68 °F (20 °C))with LX1/LX9 coil 2000...2200 VA (at 68 °F (20 °C))with LX4 coil |
| Hold-in power consumption in VA | 29...37 VA 8...10 VA |
| Maximum operating rate | 600 cyc/h 131 °F (55 °C) |

Environment

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|---|---|
| Protective treatment | TH |
| Ambient Air Temperature for Operation | 23...104 °F (-5...40 °C) |
| Ambient Air Temperature for Storage | -76...176 °F (-60...80 °C) |
| Permissible ambient air temperature around the device | -40...140 °F (-40...60 °C) |
| Operating altitude | 9842.52 ft (3000 m) without derating |
| Mechanical robustness | Vibrations contactor open2 Gn, 5...300 Hz Vibrations contactor closed4 Gn, 5...300 Hz Shocks contactor open6 Gn for 1/2 sine wave (11 ms) Shocks contactor closed15 Gn for 1/2 sine wave (11 ms) |
| Height | 13.07 in (332 mm) |
| Width | 17.24 in (438 mm) |
| Depth | 9.39 in (238.6 mm) |
| Net Weight | 66.14 lb(US) (30 kg) |

Ordering and shipping details

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|-----------------------|---------------------------------|
| Category | 22336-CTR,F-LINE,AC,OPEN,NONREV |
| Discount Schedule | I12 |
| GTIN | 3389118372825 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 66.14 lb(US) (30.0 kg) |
| Returnability | No |
| Country of origin | CZ |

Packing Units

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|------------------------------|------------------------|
| Unit Type of Package 1 | PCE |
| Package 1 Height | 15.55 in (39.5 cm) |
| Package 1 width | 19.69 in (50 cm) |
| Package 1 Length | 24.41 in (62 cm) |
| Unit Type of Package 2 | P06 |
| Number of Units in Package 2 | 1 |
| Package 2 Weight | 84.88 lb(US) (38.5 kg) |
| Package 2 Height | 30.31 in (77 cm) |

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| Package 2 width | 31.50 in (80 cm) |
| Package 2 Length | 23.62 in (60 cm) |

Offer Sustainability

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| Sustainable offer status | Green Premium product |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |
| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS Declaration |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |

Contractual warranty

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| Warranty | 18 months |
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