

LC1F150G7

IEC contactor, TeSys F, nonreversing, 150A, 100HP at 480VAC, 3 phase, 3 pole, 3 NO, 120VAC 50/60Hz coil, open style



Main

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| Range | TeSys |
| Range of Product | TeSys F |
| Product or Component Type | Contactors |
| Device short name | LC1F |
| Contactor application | Motor control Resistive load |
| Utilisation category | AC-4 AC-3 AC-1 |
| Poles description | 3P |
| [Ue] rated operational voltage | <= 690 V AC 50/60 Hz <= 460 V DC |
| [Uc] control circuit voltage | 120 V AC 40...400 Hz |
| [Ie] rated operational current | 250 A (at <104 °F (40 °C)) at <= 440 V AC-1 150 A (at <131 °F (55 °C)) at <= 440 V AC-3 |

Complementary

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| [Uimp] rated impulse withstand voltage | 8 kV |
| [Ith] conventional free air thermal current | 250 A (at 104 °F (40 °C)) |
| Rated breaking capacity | 1200 A conforming to IEC 60947-4-1 |
| [Icw] rated short-time withstand current | 1200 A 104 °F (40 °C) - 10 s 700 A 104 °F (40 °C) - 30 s 600 A 104 °F (40 °C) - 1 min 450 A 104 °F (40 °C) - 3 min 350 A 104 °F (40 °C) - 10 min |
| Associated fuse rating | 160 A aM at <= 440 V 250 A gG at <= 440 V |
| Average impedance | 0.35 mOhm - Ith 250 A 50 Hz |
| [Ui] rated insulation voltage | 1000 V IEC 60947-4-1 1500 V VDE 0110 group C |
| Power dissipation per pole | 22 W AC-1 8 W AC-3 |
| Overvoltage category | III |
| Power pole contact composition | 3 NO |
| Motor power kW | 75 kW at 380...400 V AC 50/60 Hz (AC-3) 80 kW at 415 V AC 50/60 Hz (AC-3) 80 kW at 440 V AC 50/60 Hz (AC-3) 90 kW at 500 V AC 50/60 Hz (AC-3) 100 kW at 660...690 V AC 50/60 Hz (AC-3) 40 kW at 220...230 V AC 50/60 Hz (AC-3) 22 kW at 400 V AC 50/60 Hz (AC-4) |
| Control circuit voltage limits | Operational 0.85...1.1 Uc 40...400 Hz 131 °F (55 °C) Drop-out 0.2...0.55 Uc 40...400 Hz 131 °F (55 °C) |
| Mechanical durability | 10 Mcycles |
| Inrush power in VA | 770 VA, 40...400 Hz 0.9 68 °F (20 °C)) |
| Hold-in power consumption in VA | 8.1 VA, 40...400 Hz 0.9 68 °F (20 °C)) |
| Maximum operating rate | 2400 cyc/h 131 °F (55 °C) |
| Operating time | 35 ms closing at Uc 130 ms opening at Uc) |

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| Connections - terminals | Control circuit screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²)flexible without cable end Control circuit screw clamp terminals 2 0.002...0.006 in ² (1...4 mm ²)flexible without cable end Control circuit screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²)flexible with cable end Control circuit screw clamp terminals 2 0.002...0.004 in ² (1...2.5 mm ²)flexible with cable end Control circuit screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²)solid without cable end Control circuit screw clamp terminals 2 0.002...0.006 in ² (1...4 mm ²)solid without cable end Power circuit bar 2 25 x 3 mm Power circuit lugs-ring terminals 1 0.2 in ² (120 mm ²) Power circuit connector 1 0.2 in ² (120 mm ²) Power circuit bolted connection |
| Tightening torque | Control circuit 10.6 lbf.in (1.2 N.m) Power circuit 159.3 lbf.in (18 N.m) |
| Mounting Support | Plate |
| Heat dissipation | 5.9...7.2 W |
| Standards | JIS C8201-4-1 IEC 60947-1 EN 60947-4-1 IEC 60947-4-1 EN 60947-1 |
| Product Certifications | CB[RETURN]UL[RETURN]RMRoS[RETURN]JBV[RETURN]RINA[RETURN]LROS (Lloyds register of shipping) [RETURN]DNV[RETURN]CCC[RETURN]ABS[RETURN]UKCA |
| Compatibility code | LC1F |
| Control circuit type | AC 40...400 Hz |

Environment

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| IP degree of protection | IP2X front face with shrouds IEC 60529 IP2X front face with shrouds VDE 0106 |
| Protective treatment | TH |
| Ambient Air Temperature for Operation | -40...140 °F (-40...60 °C) |
| Ambient Air Temperature for Storage | -76...176 °F (-60...80 °C) |
| Permissible ambient air temperature around the device | 140...158 °F (60...70 °C) at Uc |
| Height | 6.7 in (170 mm) |
| Width | 6.4 in (163.5 mm) |
| Depth | 6.7 in (171 mm) |
| Operating altitude | 9842.52 ft (3000 m) without derating |
| Net Weight | 7.56 lb(US) (3.43 kg) |

Ordering and shipping details

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|-------------------|---------------|
| Category | US10I1222336 |
| Discount Schedule | 0I12 |
| GTIN | 3389110350968 |
| Returnability | Yes |
| Country of origin | CZ |

Packing Units

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|------------------------------|-----------------------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 8.3 in (21.0 cm) |
| Package 1 Width | 7.9 in (20.0 cm) |
| Package 1 Length | 9.4 in (24.0 cm) |
| Package 1 Weight | 9.24 lb(US) (4.19 kg) |

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 with Exemptions |
| Mercury free | Yes |
| China RoHS Regulation | China RoHS Declaration |
| RoHS exemption information | Yes |
| 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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