



Main

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| Range | TeSys |
| Range of Product | TeSys F |
| Product or Component Type | Contacteur |
| Device short name | LC1F |
| Contacteur application | Resistive load Motor control |
| Utilisation category | AC-1 AC-4 AC-3 |
| Poles description | 3P |
| [Ue] rated operational voltage | <= 460 V DC <= 690 V AC 50/60 Hz |
| [Uc] control circuit voltage | 208 V AC 40...400 Hz |
| [Ie] rated operational current | 275 A (at <104 °F (40 °C)) at <= 440 V AC-1 185 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 | 275 A (at 104 °F (40 °C)) |
| Rated breaking capacity | 1480 A conforming to IEC 60947-4-1 |
| [Icw] rated short-time withstand current | 1500 A 104 °F (40 °C) - 10 s 920 A 104 °F (40 °C) - 30 s 740 A 104 °F (40 °C) - 1 min 500 A 104 °F (40 °C) - 3 min 400 A 104 °F (40 °C) - 10 min |
| Associated fuse rating | 200 A aM at <= 440 V 315 A gG at <= 440 V |
| Average impedance | 0.33 mOhm - Ith 275 A 50 Hz |
| [Ui] rated insulation voltage | 1000 V IEC 60947-4-1 1500 V VDE 0110 group C |
| Power dissipation per pole | 12 W AC-3 25 W AC-1 |
| Overvoltage category | III |
| Power pole contact composition | 3 NO |
| Motor power kW | 90 kW at 380...400 V AC 50/60 Hz (AC-3) 100 kW at 415 V AC 50/60 Hz (AC-3) 100 kW at 440 V AC 50/60 Hz (AC-3) 110 kW at 500 V AC 50/60 Hz (AC-3) 110 kW at 660...690 V AC 50/60 Hz (AC-3) 55 kW at 220...230 V AC 50/60 Hz (AC-3) 33 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 | 1070 VA, 40...400 Hz 0.9 68 °F (20 °C) |
| Hold-in power consumption in VA | 9.9 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 0.00...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 without 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)flexible with cable end Control circuit screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²)solid without cable end Control circuit screw clamp terminals 2 0.00...0.01 in ² (1...4 mm ²)solid without cable end Power circuit bar 2 25 x 3 mm Power circuit lugs-ring terminals 1 0.23 in ² (150 mm ²) Power circuit connector 1 0.23 in ² (150 mm ²) Power circuit bolted connection |
| Tightening torque | Control circuit 10.62 lbf.in (1.2 N.m) Power circuit 159.31 lbf.in (18 N.m) |
| Mounting Support | Plate |
| Heat dissipation | 8...9.8 W |
| Standards | IEC 60947-1 EN 60947-4-1 JIS C8201-4-1 EN 60947-1 IEC 60947-4-1 |
| Product Certifications | UL[RETURN]RMRoS[RETURN]RINA[RETURN]DNV[RETURN]BV[RETURN]LROS (Lloyds register of shipping) [RETURN]ABS[RETURN]CCC[RETURN]CB[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 | 23...131 °F (-5...55 °C) |
| Ambient Air Temperature for Storage | -76...176 °F (-60...80 °C) |
| Permissible ambient air temperature around the device | -40...158 °F (-40...70 °C) |
| Height | 6.85 in (174 mm) |
| Width | 6.63 in (168.5 mm) |
| Depth | 7.13 in (181 mm) |
| Operating altitude | 9842.52 ft (3000 m) without derating |
| Net Weight | 10.25 lb(US) (4.65 kg) |

Ordering and shipping details

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|-------------------|---------------------------------|
| Category | 22336-CTR,F-LINE,AC,OPEN,NONREV |
| Discount Schedule | I12 |
| GTIN | 3389118093591 |
| 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 | 8.66 in (22.0 cm) |
| Package 1 Width | 7.87 in (20.0 cm) |
| Package 1 Length | 9.65 in (24.5 cm) |
| Package 1 Weight | 11.34 lb(US) (5.145 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. |
| PVC free | Yes |

Contractual warranty

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| Warranty | 18 months |
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