

Product datasheet

Specifications



TeSys F contactor - 3P (3 NO) - AC-3 - <= 440 V 150 A - coil 115 V AC

Local distributor code: 402843014 LC1F150E7

! To be discontinued on: 31 December 2022

! To be discontinued

EAN Code : 3389110350944

Main

| | |
|--------------------------------|--|
| Range | TeSys |
| Range of product | TeSys F |
| Product or component type | Contactor |
| Device short name | LC1F |
| Contactor application | Motor control Resistive load |
| Utilisation category | AC-1 AC-4 AC-3 |
| Poles description | 3P |
| [Ue] rated operational voltage | <= 690 V AC 50/60 Hz <= 460 V DC |
| [Uc] control circuit voltage | 48 V AC 40...400 Hz |
| [Ie] rated operational current | 250 A (at <40 °C) at <= 440 V AC-1 150 A (at <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 40 °C) |
| 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 | 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 conforming to IEC 60947-4-1 1500 V conforming to 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 |

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|--|---|
| 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 U _c 40...400 Hz (at 55 °C) Drop-out: 0.35...0.55 U _c 40...400 Hz (at 55 °C) |
| Mechanical durability | 10 Mcycles |
| Inrush power in VA | 770 VA, 40...400 Hz cos phi 0.9 (at 20 °C) |
| Hold-in power consumption in VA | 8.1 VA, 40...400 Hz cos phi 0.9 (at 20 °C) |
| Maximum operating rate | 2400 cyc/h 55 °C |
| Operating time | 35 ms closing (at U _c) 130 ms opening (at U _c) |
| 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: bar 2 cable(s) - busbar cross section: 25 x 3 mm Power circuit: lugs-ring terminals 1 cable(s) 120 mm ² Power circuit: connector 1 cable(s) 120 mm ² Power circuit: bolted connection |
| Tightening torque | Control circuit: 1.2 N.m Power circuit: 18 N.m |
| Mounting support | Plate |
| Heat dissipation | 5.9...7.2 W |
| Standards | EN 60947-1 EN 60947-4-1 IEC 60947-1 IEC 60947-4-1 JIS C8201-4-1 |
| Product certifications | RMRoS DNV BV CCC CB RINA ABS LROS (Lloyds register of shipping) UL UKCA |
| Compatibility code | LC1F |
| Control circuit type | AC at 40...400 Hz |

Environment

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|--|---|
| IP degree of protection | IP2x front face with shrouds conforming to IEC 60529 IP2x front face with shrouds conforming to VDE 0106 |
| Protective treatment | TH |
| Ambient air temperature for operation | -40...60 °C |
| Ambient air temperature for storage | -60...80 °C |
| Permissible ambient air temperature around the device | 60...70 °C at U _c |
| Height | 170 mm |
| Width | 163.5 mm |
| Depth | 171 mm |
| Operating altitude | 3000 m without derating |

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| Net weight | 3.43 kg |
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Packing Units

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| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 21.0 cm |
| Package 1 Width | 20.0 cm |
| Package 1 Length | 24.0 cm |
| Package 1 Weight | 4.147 kg |

Offer Sustainability

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|----------------------------|---|
| Sustainable offer status | Green Premium product |
| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS declaration Product out of China RoHS scope. Substance declaration for your information |
| 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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Recommended replacement(s)

LC1F150E7 is replaced by:

1x



High power contactor, TeSys Giga, 3 pole (3NO), AC-3 <=440V 150A, standard version, 48...130V wide band AC/DC coil
LC1G150EHEN