



Commercial status

End of Commercialisation :

 End of Commercialisation

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-3 AC-1 AC-4 |
| Poles description | 3P |
| [Ue] rated operational voltage | <= 690 V AC 50/60 Hz <= 460 V DC |
| [Uc] control circuit voltage | 220 V AC 40...400 Hz |
| [Ie] rated operational current | 200 A (at <40 °C) at <= 440 V AC-1 115 A (at <55 °C) at <= 440 V AC-3 |

Complementary

| | |
|---|---|
| [Uimp] rated impulse withstand voltage | 8 KV |
| [Ith] conventional free air thermal current | 200 A (at 40 °C) |
| Rated breaking capacity | 920 A conforming to IEC 60947-4-1 |
| [Icw] rated short-time withstand current | 1100 A 40 °C - 10 s 640 A 40 °C - 30 s 520 A 40 °C - 1 min 400 A 40 °C - 3 min 320 A 40 °C - 10 min |
| Associated fuse rating | 125 A aM at <= 440 V 200 A gG at <= 440 V |
| Average impedance | 0.37 MOhm - Ith 200 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 | 15 W AC-1 5 W AC-3 |
| Overvoltage category | III |
| Pole contact composition | 3 NO |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

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| Motor power kW | 55 KW at 380...400 V AC 50/60 Hz (AC-3) 59 KW at 415 V AC 50/60 Hz (AC-3) 59 KW at 440 V AC 50/60 Hz (AC-3) 75 KW at 500 V AC 50/60 Hz (AC-3) 80 KW at 660...690 V AC 50/60 Hz (AC-3) 30 KW at 220...230 V AC 50/60 Hz (AC-3) 18.5 KW at 400 V AC 50/60 Hz (AC-4) |
| Control circuit voltage limits | Operational: 0.85...1.1 Uc 40...400 Hz (at 55 °C) Drop-out: 0.2...0.55 Uc 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 Uc) 130 ms opening (at Uc) |
| Connections - terminals | Power circuit: bar 2 cable(s) - busbar cross section: 20 x 3 mm Power circuit: lugs-ring terminals 1 cable(s) 95 mm ² Power circuit: connector 1 cable(s) 95 mm ² 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: bolted connection |
| Tightening torque | Power circuit: 10 N.m Control circuit: 1.2 N.m |
| Mounting support | Plate |
| Heat dissipation | 5.9...7.2 W |
| Standards | IEC 60947-4-1 IEC 60947-1 EN 60947-4-1 EN 60947-1 JIS C8201-4-1 |
| Product certifications | RINA BV RMRoS CB LROS (Lloyds register of shipping) DNV UL CCC ABS 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 Uc |
| Height | 162 Mm |
| Width | 163.3 Mm |
| Depth | 171 Mm |
| Operating altitude | 3000 m without derating |
| Product weight | 3.43 Kg |

Packing Units

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|------------------------------|-----------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 18.5 Cm |
| Package 1 Width | 20.0 Cm |
| Package 1 Length | 22.5 Cm |
| Package 1 Weight | 3.964 Kg |
| Unit Type of Package 2 | P06 |
| Number of Units in Package 2 | 18 |
| Package 2 Height | 75.0 Cm |
| Package 2 Width | 80.0 Cm |
| Package 2 Length | 60.0 Cm |
| Package 2 Weight | 79.352 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 |
| 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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Product Life Status : **End of commerc. announced**