

LC1F5004

TeSys F contactor - 4P(4 NO) - AC-1 - <= 440 V 700 A - without coil



Main

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|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Commercial Status | Commercialised |
| Range of product | TeSys F |
| Product or component type | Contactor |
| Device short name | LC1F |
| Contactor application | Resistive load |
| Utilisation category | AC-1 |
| Poles description | 4P |
| Power pole contact composition | 4 NO |
| [Ue] rated operational voltage | <= 460 V DC <= 1000 V AC 50/60 Hz |
| [Ie] rated operational current | 700 A (<= 40 °C) at <= 440 V AC AC-1 |
| [Uimp] rated impulse withstand voltage | 8 kV |
| Overvoltage category | III |
| [Ith] conventional free air thermal current | 700 A at <= 40 °C |
| Irms rated making capacity | 5000 A AC conforming to IEC 60947-4-1 |
| Rated breaking capacity | 4000 kA conforming to IEC 60947-4-1 |
| [Icw] rated short-time withstand current | 1200 A <= 40 °C 10 min 1500 A <= 40 °C 3 min 2400 A <= 40 °C 1 min 3200 A <= 40 °C 30 s 4200 A <= 40 °C 10 s |
| Associated fuse rating | 800 A gG at <= 440 V 500 A aM at <= 440 V |
| Average impedance | 0.18 mOhm at 50 Hz - Ith 700 A |
| [Ui] rated insulation voltage | 1500 V conforming to VDE 0110 group C 1000 V conforming to IEC 60947-4-1 |
| Power dissipation per pole | 88 W AC-1 |
| Mounting support | Plate |
| Standards | EN 60947-1 EN 60947-4-1 IEC 60947-1 IEC 60947-4-1 JEM 1038 |
| Product certifications | BV CCC CSA DNV GL RINA RMRoS UL LROS |

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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| Connections - terminals | Power circuit: bar 2 x (40 x 5 mm) Power circuit: lugs-ring terminals 2 cable(s) 240 mm ² Control circuit: screw clamp terminals 2 cable(s) 1...4 mm ² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm ² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm ² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² - cable stiffness: flexible - without cable end |
| Tightening torque | Power circuit: 35 N.m Control circuit: 1.2 N.m |

Environment

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| IP degree of protection | IP20 front face with shrouds (ordered separately) conforming to VDE 0106 IP20 front face with shrouds (ordered separately) conforming to IEC 60529 |
| Protective treatment | TH |
| Ambient air temperature for operation | -5...55 °C |
| Ambient air temperature for storage | -60...80 °C |
| Permissible ambient air temperature around the device | -40...70 °C |
| Operating altitude | 3000 m without derating in temperature |
| Mechanical robustness | Vibrations contactor closed 4 Gn, 5...300 Hz Shocks contactor closed 15 Gn for 11 ms Shocks contactor open 9 Gn for 11 ms Vibrations contactor open 2 Gn, 5...300 Hz |
| Height | 238 mm |
| Width | 288 mm |
| Depth | 232 mm |
| Product weight | 9.75 kg |

RoHS compliance

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| RoHS EUR status | Compliant |
| RoHS EUR conformity date(YYWW) | 0852 |

Contractual warranty

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| Period | 18 months |
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