



ⓘ Discontinued

LC1F1700S7 has not been replaced. Please contact your customer care center for more information.

Main

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|--------------------------------|--|
| Range | TeSys |
| Product name | TeSys F |
| Product or component type | Contactor |
| Device short name | LC1F |
| Contactor application | Resistive load |
| Utilisation category | AC-1 |
| Poles description | 3P |
| Power pole contact composition | 3 NO |
| [Ue] rated operational voltage | ≤ 1000 V AC 50/60 Hz ≤ 460 V DC |
| [Ie] rated operational current | 1700 A (≤ 40 °C) at ≤ 440 V AC AC-1 |
| [Uc] control circuit voltage | 500 V AC 40...400 Hz |

Complementary

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|---|---|
| [Uimp] rated impulse withstand voltage | 8 kV |
| Overvoltage category | III |
| [Ith] conventional free air thermal current | 1700 A at ≤ 40 °C |
| Rated breaking capacity | 2550 A conforming to IEC 60947-4-1 |
| [Icw] rated short-time withstand current | 10000 A ≤ 40 °C 10 s 7500 A ≤ 40 °C 30 s 5500 A ≤ 40 °C 1 min 4200 A ≤ 40 °C 3 min 3000 A ≤ 40 °C 10 min |
| Associated fuse rating | 1600 A gG at ≤ 440 V |
| Average impedance | 0.1 mOhm at 50 Hz - Ith 1700 A |
| [Ui] rated insulation voltage | 1000 V conforming to IEC 60947-4-1 1500 V conforming to VDE 0110 group C |
| Power dissipation per pole | 200 W AC-1 |
| Mounting support | Plate |
| Standards | EN 60947-1 EN 60947-4-1 IEC 60947-4-1 IEC 60947-1 JIS C8201-4-1 |

Disclaimer: 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

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|---------------------------------|---|
| Product certifications | CETLus CB CSA CCC |
| Connections - terminals | 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 - without 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 - with 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...4 mm ² - cable stiffness: solid - without cable end Power circuit : bolted connection Power circuit : bar 3 x (100 x 5 mm) |
| Tightening torque | Control circuit : 1.2 N.m Power circuit : 58 N.m |
| Control circuit voltage limits | 0.85...1.1 Uc at 55 °C operational 40...400 Hz 0.3...0.5 Uc at 55 °C drop-out 40...400 Hz |
| Inrush power in VA | 2200 VA at 20 °C (cos φ 0.9) 40...400 Hz |
| Hold-in power consumption in VA | 36 VA at 20 °C (cos φ 0.9) 40...400 Hz |
| Heat dissipation | 36 W |
| Operating time | 40...75 ms closing 100...170 ms opening |
| Operating rate | 600 cyc/h at ≤ 55 °C |

Environment

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|---|-------------------------|
| Protective treatment | TH |
| Ambient air temperature for operation | -5...40 °C |
| Ambient air temperature for storage | -60...80 °C |
| Permissible ambient air temperature around the device | -40...60 °C |
| Operating altitude | 3000 m without derating |
| Height | 332 mm |
| Width | 438 mm |
| Depth | 238.6 mm |
| Product weight | 30 kg |

Offer Sustainability

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|------------------------|---|
| RoHS (date code: YYWW) | Compliant - since 0927 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity |
|------------------------|---|

Contractual warranty

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|-----------------|-----------|
| Warranty period | 18 months |
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