

LC1F265P7

TeSys F contactor - 3P (3 NO) - AC-3 - ≤ 440 V 265 A - coil 230 V AC

Main

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|---|---|
| Commercial Status | Commercialised |
| 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-3 |
| Poles description | 3P |
| Power pole contact composition | 3 NO |
| [Ue] rated operational voltage | ≤ 460 V DC ≤ 1000 V AC 50/60 Hz |
| [Ie] rated operational current | 265 A (≤ 55 °C) at ≤ 440 V AC AC-3 350 A (≤ 40 °C) at ≤ 440 V AC AC-1 |
| Motor power kW | 75 kW at 220...230 V AC 50/60 Hz 147 kW at 1000 V AC 50/60 Hz 160 kW at 660...690 V AC 50/60 Hz 160 kW at 500 V AC 50/60 Hz 140 kW at 440 V AC 50/60 Hz 140 kW at 415 V AC 50/60 Hz 132 kW at 380...400 V AC 50/60 Hz |
| Control circuit type | AC 40...400 Hz |
| Control circuit voltage | 230 V AC 40...400 Hz |
| [Uimp] rated impulse withstand voltage | 8 kV |
| Overvoltage category | III |
| [Ith] conventional free air thermal current | 350 A at ≤ 40 °C |
| Irms rated making capacity | 2650 A AC conforming to IEC 60947-4-1 |
| Rated breaking capacity | 2120 kA conforming to IEC 60947-4-1 |
| [Icw] rated short-time withstand current | 480 A ≤ 40 °C 10 min 620 A ≤ 40 °C 3 min 950 A ≤ 40 °C 1 min 1230 A ≤ 40 °C 30 s 2200 A ≤ 40 °C 10 s |
| Associated fuse rating | 400 A gG at ≤ 440 V 315 A aM at ≤ 440 V |
| Average impedance | 0.30 mOhm at 50 Hz - Ith 350 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 | 21 W AC-3 37 W AC-1 |
| Mounting support | Plate |
| Standards | EN 60947-1 EN 60947-4-1 IEC 60947-1 IEC 60947-4-1 JEM 1038 |

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| Product certifications | BV CCC CSA DNV GL RINA RMRoS UL LROS |
| Connections - terminals | Power circuit: bar 2 x (32 x 4 mm) Power circuit: connector 1 cable(s) 240 mm ² Power circuit: lugs-ring terminals 1 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 |
| Operating time | 100...170 ms opening 40...65 ms closing |
| Mechanical durability | 10 Mcycles |
| Operating rate | 2400 cyc/h at <= 55 °C |

Complementary

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|---------------------------------|---|
| Control circuit voltage limits | 0.15...0.2 Uc at 55 °C drop-out 40...400 Hz 0.85...1.1 Uc at 55 °C operational 40...400 Hz |
| Inrush power in VA | 650 VA at 20 °C (cos φ 0.9) 40...400 Hz |
| Hold-in power consumption in VA | 10 VA at 20 °C (cos φ 0.9) 40...400 Hz |
| Heat dissipation | 8 W |

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 |
| Operating altitude | 3000 m without derating in temperature |
| Mechanical robustness | Shocks contactor open 6 Gn for 11 ms Vibrations contactor closed 5 Gn, 5...300 Hz Shocks contactor closed 15 Gn for 11 ms Vibrations contactor open 2 Gn, 5...300 Hz |
| Height | 203 mm |
| Width | 201.5 mm |
| Depth | 213 mm |
| Product weight | 7.44 kg |

RoHS compliance

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| RoHS EUR status | Compliant |
| RoHS EUR conformity date(YYWW) | 0843 |

Contractual warranty

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| Period | 18 months |
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