

LC1F115MD

TeSys F contactor - 3P (3 NO) - AC-3 - ≤ 440 V
115 A - coil 220 V DC



Main

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|---|---|
| Range | TeSys |
| Product name | TeSys F |
| Product or component type | Contacteur |
| Device short name | LC1F |
| Contacteur application | Motor control Resistive load |
| Utilisation category | AC-1 AC-3 |
| Poles description | 3P |
| Pole contact composition | 3 NO |
| [Ue] rated operational voltage | ≤ 1000 V AC 50/60 Hz ≤ 460 V DC |
| [Ie] rated operational current | 200 A (≤ 40 °C) at ≤ 440 V AC AC-1 115 A (≤ 55 °C) at ≤ 440 V AC AC-3 |
| Motor power kW | 30 kW at 220...230 V AC 50/60 Hz 55 kW at 380...400 V AC 50/60 Hz 59 kW at 415 V AC 50/60 Hz 59 kW at 440 V AC 50/60 Hz 65 kW at 1000 V AC 50/60 Hz 75 kW at 500 V AC 50/60 Hz 80 kW at 660...690 V AC 50/60 Hz |
| Control circuit type | DC standard |
| Control circuit voltage | 220 V DC |
| [Uimp] rated impulse withstand voltage | 8 kV |
| Overvoltage category | III |
| [Ith] conventional free air thermal current | 200 A at ≤ 40 °C |
| Irms rated making capacity | 1150 A AC conforming to IEC 60947-4-1 |
| Rated breaking capacity | 920 kA 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 at 50 Hz - Ith 200 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 | 15 W AC-1 5 W AC-3 |
| 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 |

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UL
LROS

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|-------------------------|--|
| Connections - terminals | Control circuit : screw clamp terminals 2 cable(s) 1...2.5 mm ² - cable stiffness: flexible - with cable end Power circuit : connector 1 cable(s) 95 mm ² 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 : lugs-ring terminals 1 cable(s) 95 mm ² Power circuit : bar 2 x (20 x 3 mm) |
| Tightening torque | Control circuit : 1.2 N.m Power circuit : 10 N.m |
| Operating time | 30...40 ms closing 30...50 ms opening |
| Mechanical durability | 10 Mcycles |
| Operating rate | 2400 cyc/h at <= 55 °C |

Complementary

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|--------------------------------|---|
| Control circuit voltage limits | 0.85...1.1 U _c at 55 °C operational 0.15...0.2 U _c at 55 °C drop-out |
| Inrush power in W | 560 W at 20 °C |
| Hold-in power consumption in W | 4.5 W at 20 °C |
| Heat dissipation | 4.5 W |

Environment

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|---|---|
| IP degree of protection | IP2x front face with shrouds (ordered separately) conforming to IEC 60529 IP2x front face with shrouds (ordered separately) conforming to VDE 0106 |
| 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 open 2 Gn, 5...300 Hz Shocks contactor closed 15 Gn for 11 ms Vibrations contactor closed 6 Gn, 5...300 Hz Shocks contactor open 9 Gn for 11 ms |
| Height | 162 mm |
| Width | 163.3 mm |
| Depth | 171 mm |
| Product weight | 3.43 kg |

Offer Sustainability

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|----------------------------------|---|
| Sustainable offer status | Green Premium product |
| RoHS | Compliant - since 0843 - Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold |
| Product environmental profile | Available |
| Product end of life instructions | Available |