

LC1F115G7

contactor TeSys LC1-F - 3 poles - AC-3 - 440V
115 A - coil 120 V AC



Main

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| Range of product | TeSys F |
| Product or component type | Contacteur |
| Device short name | LC1F |
| Contacteur application | Motor control Resistive load |
| Utilisation category | AC-1 AC-3 |
| Control circuit type | AC |
| Coil type | Standard |
| Poles description | 3P |
| Pole contact composition | 3 NO |
| [Ie] rated operational current | 115 A ($\leq 55\text{ }^{\circ}\text{C}$) AC AC-3 for power circuit 200 A ($\leq 40\text{ }^{\circ}\text{C}$) AC AC-1 for power circuit |
| 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 |
| [Uc] control circuit voltage | 120 V AC 40...400 Hz |
| Connections - terminals | Connector power circuit: 1 cable 95 mm ² Ring lugs power circuit: 1 cable 95 mm ² Control circuit: connector 1 cable 1...4 mm ² - cable stiffness: flexible - with cable end Control circuit: connector 1 cable 1...4 mm ² - cable stiffness: solid - without cable end Control circuit: connector 2 cable 1...2.5 mm ² - cable stiffness: flexible - without cable end Control circuit: connector 2 cable 1...4 mm ² - cable stiffness: flexible - with cable end Control circuit: connector 2 cable 1...4 mm ² - cable stiffness: solid - without cable end Power circuit: bars 2 - without cable end |

Complementary

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| Coil technology | Without built-in bidirectional peak limiting diode suppressor |
| Auxiliary contacts type | Type integrated in coil (1 NO) |
| Auxiliary contact composition | 1 NO |
| Control circuit voltage limits | 0.35...0.55 U _c at $\leq 55\text{ }^{\circ}\text{C}$ drop-out 50 Hz 0.35...0.55 U _c at $\leq 55\text{ }^{\circ}\text{C}$ drop-out 60 Hz 0.85...1.1 U _c at $\leq 55\text{ }^{\circ}\text{C}$ operational 50 Hz 0.85...1.1 U _c at $\leq 55\text{ }^{\circ}\text{C}$ operational 60 Hz |
| [Ui] rated insulation voltage | 1000 V conforming to IEC 60947-1 for power circuit 1500 V conforming to VDE 0110 group C for power circuit |
| [Uimp] rated impulse withstand voltage | 8 kV coil not connected to the power circuit |
| Mounting support | Plate Rail |
| Tightening torque | Power circuit: 10 N.m - on bars Power circuit: 10 N.m - on connector - cable 95 mm ² Power circuit: 10 N.m - on ring lugs - cable 95 mm ² Control circuit: 1.2 N.m - on connector - cable 1...2.5 mm ² Control circuit: 1.2 N.m - on connector - cable 1...4 mm ² |
| [Ue] rated operational voltage | $\leq 1000\text{ V AC } 16\text{ Hz } 2/3\text{...}200\text{ Hz}$ for power circuit |

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| [Ith] conventional free air thermal current | 200 A at <= 40 °C for power circuit |
| Irms rated making capacity | 1150 A at <= 1000 V AC for power circuit conforming to IEC 60497-4-1 |
| Rated breaking capacity | 920 A at <= 1000 V for power circuit conforming to IEC 60497-4-1 |
| Permissible short-time rating | 1100 A (<= 40 °C) - short time current duration: 10 s - for power circuit 320 A (<= 40 °C) - short time current duration: 10 min - for power circuit 400 A (<= 40 °C) - short time current duration: 3 min - for power circuit 520 A (<= 40 °C) - short time current duration: 1 min - for power circuit 640 A (<= 40 °C) - short time current duration: 30 s - for power circuit |
| Associated fuse rating | 125 A aM at <= 440 V for power circuit 200 A gG at <= 440 V for power circuit |
| Average impedance | 0.37 mOhm at 50 Hz - Ith 200 A for power circuit |
| Power dissipation per pole | 15 W AC-1 5 W AC-3 |
| Inrush power in VA | 550 VA at 20 °C (cos φ 0.3) 660 VA at 20 °C (cos φ 0.3) |
| Hold-in power consumption in VA | 45 VA at 20 °C (cos φ 0.3) 50 Hz 55 VA at 20 °C (cos φ 0.3) 60 Hz |
| Operating time | 23...35 ms on closing 5...15 ms on opening |
| Mechanical durability | 10000000 cycles |
| Operating rate | 2400 cyc/h at <= 55 °C |
| Height | 163.5 mm |
| Width | 162 mm |
| Depth | 171 mm |
| Product weight | 3.43 kg |

Environment

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| Standards | EN 60947-1 EN 60947-4-1 IEC 60947-1 IEC 60947-4-1 JEM 1038 |
| Product certifications | BV CCC CSA DNV (Det Norske Veritas) GL GOST LROS (Lloyds register of shipping) RINA RMR0S UL |
| IP degree of protection | IP20 front face with cover conforming to IEC 60529 IP20 front face with cover conforming to VDE 0106 |
| Protective treatment | TH |
| Ambient air temperature for operation | -60...80 °C |
| Ambient air temperature for storage | -5...55 °C |
| Permissible ambient air temperature around the device | -40...70 °C at Uc |
| Operating altitude | 3000 m without derating in temperature |
| Fire resistance | 850 °C conforming to IEC 60695-2-1 |
| Shock resistance | 15 gn contactor closed 9 gn contactor opened |
| Vibration resistance | 2 gn 5...300 Hz contactor opened 6 gn 5...300 Hz contactor closed |
| Heat dissipation | 12...16 W at 40...400 Hz for control circuit |