LC1F265G7

contactor TeSys LC1-F - 3 poles - 265 A - AC-3 - 440V - coil 120 V AC

| Main | |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 |
| Control circuit type | AC |
| Coil type | Standard |
| Poles description | 3P |
| Pole contact composition | 3 NO |
| [le] rated operational current | 265 A (<= 55 °C) AC AC-3 for power circuit 350 A (<= 40 °C) AC AC-1 for power circuit |
| Motor power kW | 132 kW at 380400 V AC 50/60 Hz 140 kW at 415 V AC 50/60 Hz 140 kW at 440 V AC 50/60 Hz 147 kW at 1000 V AC 50/60 Hz 160 kW at 500 V AC 50/60 Hz 160 kW at 660690 V AC 50/60 Hz 75 kW at 220230 V AC 50/60 Hz |
| Motor power hp | 150 hp at 460/480 V AC 60 Hz conforming to CSA 150 hp at 460/480 V AC 60 Hz conforming to UL 200 hp at 575/600 V AC 60 Hz conforming to CSA 200 hp at 575/600 V AC 60 Hz conforming to UL 60 hp at 200/208 V AC 60 Hz conforming to CSA 60 hp at 200/208 V AC 60 Hz conforming to UL 75 hp at 230/240 V AC 60 Hz conforming to CSA 75 hp at 230/240 V AC 60 Hz conforming to UL |
| [Uc] control circuit volt- age | 120 V AC 40400 Hz |
| Connections - terminals | Connector power circuit: 1 cable 240 mm² Ring lugs power circuit: 1 cable 240 mm² Control circuit: connector 1 cable 14 mm² - cable stiffness: flexible - with cable end Control circuit: connector 1 cable 14 mm² - cable stiffness: solid - without cable end Control circuit: connector 2 cable 12.5 mm² - cable stiffness: flexible - without cable end Control circuit: connector 2 cable 14 mm² - cable stiffness: flexible - with cable end Control circuit: connector 2 cable 14 mm² - cable stiffness: solid - without cable end Power circuit: bars 2 - without cable end |

Complementary

| 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 | 0.350.55 Uc at <= 55 °C drop-out 40400 Hz 0.851.1 Uc at <= 55 °C operational 40400 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: 35 N.m - on bars Power circuit: 35 N.m - on connector - cable 240 mm² Power circuit: 35 N.m - on ring lugs - cable 240 mm² Control circuit: 1.2 N.m - on connector - cable 12.5 mm² Control circuit: 1.2 N.m - on connector - cable 14 mm² |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Ue] rated operational voltage | <= 1000 V AC 16 Hz 2/3200 Hz for power circuit |
| [lth] conventional free air thermal current | 350 A at <= 40 °C for power circuit |
| Irms rated making capacity | 2650 A at <= 1000 V AC for power circuit conforming to IEC 60497-4-1 |
| Rated breaking capacity | 2120 A at <= 1000 V for power circuit conforming to IEC 60497-4-1 |
| Permissible short-time rating | 1230 A (<= 40 °C) - short time current duration: 30 s - for power circuit 2200 A (<= 40 °C) - short time current duration: 10 s - for power circuit 480 A (<= 40 °C) - short time current duration: 10 min - for power circuit 620 A (<= 40 °C) - short time current duration: 3 min - for power circuit 950 A (<= 40 °C) - short time current duration: 1 min - for power circuit |
| Associated fuse rating | 315 A aM at <= 440 V for power circuit 400 A gG at <= 440 V for power circuit 500 A gG at <= 440 V for power circuit |
| Average impedance | 0.3 mOhm at 50 Hz - Ith 350 A for power circuit |
| Power dissipation per pole | 21 W AC-3 37 W AC-1 |
| Inrush power in VA | 650 VA at 20 °C (cos φ 0.9) |
| Hold-in power consumption in VA | 10 VA at 20 °C (cos φ 0.9) 40400 Hz |
| Operating time | 4065 ms on closing 100170 ms on opening |
| Mechanical durability | 10000000 cycles |
| Operating rate | 2400 cyc/h at <= 55 °C |
| Height | 201.5 mm |
| Width | 203 mm |
| Depth | 213 mm |
| Product weight | 7.44 kg |

Environment

| Standards EN 60947-1 IEC 60947-1 IEC 60947-4-1 JEC 60947-4-1 JEC 60947-4-1 JEM 1038 Product certifications BV CCC CSA CSA DNV (Det Norske Veritas) GL GOST LROS (Lloyds register of shipping) RINA 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 -6080 °C Ambient air temperature for storage -555 °C Permissible ambient air temperature around the device 4070 °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 6 gn contactor opened 5 gn 5300 Hz contactor opened 5 gn 5300 Hz contactor closed Vibration resistance 8 W at 40400 Hz for control circuit | LIMITOTIMENT | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------------------------------------------------------------------|
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| Fire resistance 850 °C conforming to IEC 60695-2-1 Shock resistance 15 gn contactor closed 6 gn contactor opened Vibration resistance 2 gn 5300 Hz contactor opened 5 gn 5300 Hz contactor closed | • | -4070 °C at Uc |
| Shock resistance 15 gn contactor closed 6 gn contactor opened Vibration resistance 2 gn 5300 Hz contactor opened 5 gn 5300 Hz contactor closed | Operating altitude | 3000 m without derating in temperature |
| Vibration resistance 2 gn 5300 Hz contactor opened 5 gn 5300 Hz contactor closed | Fire resistance | 850 °C conforming to IEC 60695-2-1 |
| 5 gn 5300 Hz contactor closed | Shock resistance | |
| Heat dissipation 8 W at 40400 Hz for control circuit | Vibration resistance | |
| | Heat dissipation | 8 W at 40400 Hz for control circuit |

