Product data sheet

Specifications

contactor, TeSys F, 3P(3NO), AC-1, <=1000V 2100A, coil 220V AC

LC1F2100M7

Main

Range	TeSys
Range Of Product	TeSys F
Product Or Component Type	Contactor
Device Short Name	LC1F
Contactor Application	Resistive load
Utilisation Category	AC-1
Poles Description	3P
[Ue] Rated Operational Voltage	<= 1000 V AC 50/60 Hz <= 460 V DC
[Uc] Control Circuit Voltage	220 V AC 40...400 Hz
[Ie] Rated Operational Current	2100 A (at <40 °C) AC AC-1

Complementary

[Uimp] Rated Impulse Withstand Voltage	8 kV
[Ith] Conventional Free Air Thermal Current	2100 A (at 40 °C)
Rated Breaking Capacity	3150 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	2000 A gG at <= 440 V
Average Impedance	0.1 mOhm - Ith 2100 A 50 Hz
[Ui] Rated Insulation Voltage	1000 V conforming to IEC 60947-4-1 1500 V conforming to VDE 0110 group C 1000 V conforming to UL 60947-4-1
Power Dissipation Per Pole	200 W AC-1
Overvoltage Category	III
Power Pole Contact Composition	3 NO
Control Circuit Voltage Limits	Operational: 0.85...1.1 Uc 40...400 Hz (at 55 °C) Drop-out: 0.3...0.5 Uc 40...400 Hz (at 55 °C)
Inrush Power In Va	2200 VA, 40...400 Hz cos phi 0.9 (at 20 °C)
Hold-In Power Consumption In Va	36 VA, 40...400 Hz cos phi 0.9 (at 20 °C)
Maximum Operating Rate	600 cyc/h 55 °C

Operating Time	100...170 ms opening 40...75 ms closing
Connections - Terminals	Control circuit: screw clamp terminals 1 cable(s) 1…4 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1…4 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 1…4 mm²flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1…2.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 1…4 mm²solid without cable end Control circuit: screw clamp terminals 2 cable(s) 1…4 mm²solid without cable end Power circuit: bar 4 cable(s) - busbar cross section: 100 x 5 mm Power circuit: bolted connection
Tightening Torque	Control circuit: 1.2 N.m Power circuit: 58 N.m
Mounting Support	Plate
Heat Dissipation	36 W
Standards	IEC 60947-1 IEC 60947-4-1 JIS C8201-4-1 EN 60947-1 EN 60947-4-1 UL 60947-4-1 CSA C22.2 No 60947-4-1
Product Certifications	UL CSA CCC CB Scheme EAC UKCA
Compatibility Code	LC1F
Control Circuit Type	AC at 40...400 Hz

Environment

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
Height	332 mm
Width	438 mm
Depth	238.6 mm
Operating Altitude	3000 m without derating
Net Weight	31 kg

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	39.5 cm
Package 1 Width	50.0 cm
Package 1 Length	62.0 cm
Package 1 Weight	31.0 kg

Contractual warranty

Warranty	18 months

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Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium 〉

Guide to assess a product's sustainability 〉

Transparency   RoHS/REACh

Well-being performance

✅ Mercury Free

✅ Rohs Exemption Information   Yes

Certifications & Standards

Reach Regulation   REACh Declaration

Eu Rohs Directive   Compliant with Exemptions

China Rohs Regulation   China RoHS declaration

Product out of China RoHS scope. Substance declaration for your information

Environmental Disclosure   Product Environmental Profile

Weee   The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Circularity Profile   End of Life Information