Product datasheet

Specifications

Green Premium™

TeSys F contactor - 3P(3 NO)- AC-1 <= 1000 V AC 2100 A with coil LX1/ LX9 - 110…500V AC 40/400Hz, LX4 - 110...440V DC

Local distributor code:

398353595 LC1F2100

EAN Code: 3389118372658

Main

Range	TeSys
Product Name	TeSys F
Product Or Component Type	Contactor
Device Short Name	LC1F
Contactor Application	Resistive load
Utilisation Category	AC-1
Poles Description	3P
Power Pole Contact Composition	3 NO
[Ue] Rated Operational Voltage	<= 1000 V AC 50/60 Hz <= 460 V DC
[Ie] Rated Operational Current	2100 A (at <40 °C) at <= 440 V AC AC-1

Complementary

[Uc] Control Circuit Voltage	110...500 V AC 40...400 Hz with LX1/LX9 coil 110...440 V DC with LX4 coil
[Uimp] Rated Impulse Withstand Voltage	8 kV
Overvoltage Category	III
[Ith] Conventional Free Air Thermal Current	2100 A (at 40 °C)
Irms Rated Making Capacity	3150 A AC conforming to IEC 60947-4-1
Rated Breaking Capacity	3150 A for power circuit conforming to IEC 60947-4-1
[Icw] Rated Short-Time Withstand Current	10000 A 40 °C - 10 s for power circuit 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 for power circuit conforming to IEC 60947-4-1
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
Control Circuit Voltage Limits	Operational: 0.85...1.1 Uc AC 40...400 Hz with LX1/LX9 coil Drop-out: 0.3...0.55 Uc AC 40...400 Hz with LX1/LX9 coil Operational: 0.85...1.1 Uc DC with LX4 coil Drop-out: 0.2...0.35 Uc DC with LX4 coil
Heat Dissipation	18 W

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Operating Time	40...75 ms closing for with LX1/LX9 coil 100...170 ms opening for with LX1/LX9 coil 50...60 ms closing for with LX4 coil 45...60 ms opening for with LX4 coil
Mounting Support	Plate
Standards	JIS C8201-4-1 EN 60947-1 EN 60947-4-1 IEC 60947-4-1 IEC 60947-1 UL 60947-4-1 CSA C22.2 No 60947-4-1
Product Certifications	CCC UL CB Scheme CSA EAC UKCA
Connections - Terminals	Power circuit: bar 4 cable(s) Power circuit: bolted connection 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 with 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 mm²solid without cable end Control circuit: screw clamp terminals 1 cable(s) 1…4 mm² Control circuit: screw clamp terminals 2 cable(s) 1…4 mm²
Tightening Torque	Power circuit: 58 N.m Control circuit: 1.2 N.m
Mechanical Durability	0.5 Mcycles
Inrush Power In Va	1600…2400 VA, 40...400 Hz cos phi 0.9 (at 20 °C)with LX1/LX9 coil 2000…2200 VA (at 20 °C)with LX4 coil
Hold-In Power Consumption In Va	29…37 VA, 40...400 Hz cos phi 0.9 (at 20 °C)with LX1/LX9 coil 8…10 VA (at 20 °C)with LX4 coil
Maximum Operating Rate	600 cyc/h 55 °C

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
Operating Altitude	3000 m without derating
Mechanical Robustness	Vibrations contactor open: 2 Gn, 5...300 Hz Vibrations contactor closed: 4 Gn, 5...300 Hz Shocks contactor open: 6 Gn for 1/2 sine wave (11 ms) Shocks contactor closed: 15 Gn for 1/2 sine wave (11 ms)
Height	332 mm
Width	438 mm
Depth	238.6 mm
Net Weight	31 kg

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	38.0 cm

Package 1 Width	50.0 cm
Package 1 Length	60.0 cm
Package 1 Weight	31.0 kg

Contractual warranty

Warranty	18 months

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

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