

Product datasheet

Specifications



TeSys F contactor - 4P(4 NO) - AC-1 - <= 440 V 315 A - without coil

LC1F2254

⚠ To be discontinued on: Dec 31, 2023

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Main

Range	TeSys
Product Name	TeSys F
Product Or Component Type	Contactors
Device Short Name	LC1F
Contactors Application	Resistive load
Utilisation Category	AC-1
Poles Description	4P
Power Pole Contact Composition	4 NO
[Ue] Rated Operational Voltage	<= 690 V AC 50/60 Hz <= 460 V DC
[Ie] Rated Operational Current	315 A (at <40 °C) at <= 440 V AC-1

Complementary

[Uc] Control Circuit Voltage	24...575 V AC 40...400 Hz with LX9 coil 24...460 V DC with LX4 coil 100...250 V AC 50/60 Hz with LXE coil 100...380 V DC with LXE coil
[Uimp] Rated Impulse Withstand Voltage	8 kV
Overvoltage Category	III
[Ith] Conventional Free Air Thermal Current	315 A (at 40 °C)
Irms Rated Making Capacity	2250 A conforming to IEC 60947-4-1
Rated Breaking Capacity	1800 A conforming to IEC 60947-4-1
[Icw] Rated Short-Time Withstand Current	1800 A 40 °C - 10 s 1000 A 40 °C - 30 s 850 A 40 °C - 1 min 560 A 40 °C - 3 min 440 A 40 °C - 10 min
Associated Fuse Rating	315 A gG at <= 440 V
Average Impedance	0.32 mOhm - Ith 315 A 50 Hz
[Ui] Rated Insulation Voltage	1000 V conforming to IEC 60947-4-1 1500 V conforming to VDE 0110 group C
Power Dissipation Per Pole	32 W AC-1

Control Circuit Voltage Limits	Operational: 0.85...1.1 Uc AC 40...400 Hz with LX9 coil Drop-out: 0.2...0.55 Uc AC 40...400 Hz with LX9 coil Operational: 0.85...1.1 Uc DC with LX4 coil Drop-out: 0.15...0.2 Uc DC with LX4 coil Operational: 85...275 V AC 50/60 Hz with LXE coil Drop-out: 0...60 V AC 50/60 Hz with LXE coil Operational: 85...418 V DC with LXE coil Drop-out: 0...45 V DC with LXE coil
Heat Dissipation	8...9.8 W 2.2...2.5 W
Operating Time	35 ms closing for with LX9 coil 130 ms opening for with LX9 coil 30...40 ms closing for with LX4 coil 30...50 ms opening for with LX4 coil 40...80 ms closing for with LXE coil 6...54 ms opening for with LXE coil
Mounting Support	Plate
Standards	JIS C8201-4-1 IEC 60947-4-1 IEC 60947-1 EN 60947-4-1 EN 60947-1
Product Certifications	UL LROS (Lloyds register of shipping) BV CB ABS DNV CSA RMRoS RINA UKCA
Connections - Terminals	Power circuit: lugs-ring terminals 1 cable(s) 185 mm ² Power circuit: connector 1 cable(s) 185 mm ² Power circuit: bar 2 cable(s) - busbar cross section: 32 x 4 mm Power circuit: bolted connection Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm ² flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm ² solid without cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² Control circuit: screw clamp terminals 2 cable(s) 1...4 mm ² Control circuit: screw clamp terminals 1.0 cable(s) 0.2...2.5 mm ² flexible without cable end Control circuit: screw clamp terminals 1.0 cable(s) 0.25...2.5 mm ² flexible with cable end Control circuit: screw clamp terminals 1.0 cable(s) 0.2...2.5 mm ² solid without cable end
Tightening Torque	Power circuit: 35 N.m Control circuit: 1.2 N.m Control circuit: 0.6 N.m
Mechanical Durability	10 Mcycles
Inrush Power In Va	950...1180 VA, 40...400 Hz cos phi 0.9 (at 20 °C)with LX9 coil 737...902 VA (at 20 °C)with LX4 coil 280...310 VA, 50/60 Hz cos phi 0.5 (at 20 °C)with LXE coil 270...320 VA (at 20 °C)with LXE coil
Hold-In Power Consumption In Va	8.9...10.9 VA, 40...400 Hz cos phi 0.9 (at 20 °C)with LX9 coil 4.13...5.07 VA (at 20 °C)with LX4 coil 4.5...7.0 VA, 50/60 Hz cos phi 0.5 (at 20 °C)with LXE coil 2.5...4.0 VA (at 20 °C)with LXE coil
Maximum Operating Rate	2400 cyc/h 55 °C
Compatibility Code	LC1F

Environment

Ip Degree Of Protection	IP20 front face with shrouds conforming to IEC 60529 IP20 front face with shrouds 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
Mechanical Robustness	Vibrations contactor open: 2 Gn, 5...300 Hz Vibrations contactor closed: 5 Gn, 5...300 Hz Shocks contactor open: 7 Gn for 1/2 sine wave (11 ms) Shocks contactor closed: 15 Gn for 1/2 sine wave (11 ms)
Height	197 mm
Width	208.5 mm
Depth	181 mm
Net Weight	5.55 kg

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	22.000 cm
Package 1 Width	24.500 cm
Package 1 Length	27.000 cm
Package 1 Weight	5.595 kg
Unit Type Of Package 2	P06
Number Of Units In Package 2	12
Package 2 Height	75.000 cm
Package 2 Width	60.000 cm
Package 2 Length	80.000 cm
Package 2 Weight	75.460 kg

Contractual warranty

Warranty	12 months
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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-CO₂ 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

Pvc Free

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](#)