

Product data sheet

Specifications



TeSys F contactor - 4P (4 NO) - AC-1 - <= 440 V 700 A - coil 110 V AC

LC1F5004F7

⚠ Discontinued on: Oct 31, 2023

⚠ Discontinued

Main

Range	TeSys
Range Of Product	TeSys F
Product Or Component Type	Contactors
Device Short Name	LC1F
Contactors Application	Resistive load
Utilisation Category	AC-1
Poles Description	4P
[Ue] Rated Operational Voltage	<= 1000 V AC 50/60 Hz <= 460 V DC
[Uc] Control Circuit Voltage	110 V AC 40...400 Hz
[Ie] Rated Operational Current	700 A (at <40 °C) at <= 440 V AC AC-1

Complementary

[Uimp] Rated Impulse Withstand Voltage	8 kV
[Ith] Conventional Free Air Thermal Current	700 A (at 40 °C)
Rated Breaking Capacity	4000 A conforming to IEC 60947-4-1
[Icw] Rated Short-Time Withstand Current	4200 A 40 °C - 10 s 3200 A 40 °C - 30 s 2400 A 40 °C - 1 min 1500 A 40 °C - 3 min 1200 A 40 °C - 10 min
Associated Fuse Rating	500 A aM at <= 440 V 800 A gG at <= 440 V
Average Impedance	0.18 mOhm - Ith 700 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	88 W AC-1
Overvoltage Category	III
Power Pole Contact Composition	4 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)
Mechanical Durability	10 Mcycles
Inrush Power In Va	1100 VA, 40...400 Hz cos phi 0.9 (at 20 °C)
Hold-In Power Consumption In Va	18 VA, 40...400 Hz cos phi 0.9 (at 20 °C)

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

Maximum Operating Rate	2400 cyc/h 55 °C
Operating Time	40...65 ms closing 100...170 ms opening
Connections - Terminals	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 without 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 flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² solid without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm ² solid without cable end Power circuit: bar 2 cable(s) - busbar cross section: 40 x 5 mm Power circuit: lugs-ring terminals 2 cable(s) 240 mm ² Power circuit: bolted connection
Tightening Torque	Control circuit: 1.2 N.m Power circuit: 35 N.m
Mounting Support	Plate
Heat Dissipation	18 W
Standards	IEC 60947-4-1 JIS C8201-4-1 EN 60947-4-1 EN 60947-1 IEC 60947-1
Product Certifications	LROS (Lloyds register of shipping) UL BV DNV CCC RMRoS ABS CB RINA UKCA
Compatibility Code	LC1F
Control Circuit Type	AC at 40...400 Hz

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
Height	238 mm
Width	288 mm
Depth	232 mm
Operating Altitude	3000 m without derating
Net Weight	12.95 kg

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	27.0 cm
Package 1 Width	30.0 cm
Package 1 Length	33.0 cm

Package 1 Weight	14.09 kg
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Contractual warranty

Warranty	18 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](#)

Certifications & Standards

Reach Regulation	REACH Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
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
California Proposition 65	WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov