

# Product data sheet

Specifications



Contactor body, TeSys F, 3P(3NO), AC-1, <=1000V AC 1700A without coil

LC1F1700

## 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	1700 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	1700 A (at 40 °C)
Irms Rated Making Capacity	2550 A AC conforming to IEC 60947-4-1
Rated Breaking Capacity	2550 A 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	1600 A gG at <= 440 V for power circuit conforming to IEC 60947-4-1
Average Impedance	0.1 mOhm - Ith 1700 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...0.5 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	EN 60947-1 JIS C8201-4-1 IEC 60947-1 EN 60947-4-1 IEC 60947-4-1 UL 60947-4-1A CSA C22.2 No 60947-4-1
Product Certifications	CB Scheme CCC CSA UL EAC UKCA
Connections - Terminals	Power circuit: bar 3 cable(s) - busbar cross section: 100 x 5 mm Power circuit: bolted connection Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> solid without cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> Control circuit: screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup>
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	30 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	30.0 kg

## 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-CO<sub>2</sub> 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	<a href="#">REACH Declaration</a>
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	<a href="#">China RoHS declaration</a> Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	<a href="#">End of Life Information</a>
California Proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="#">www.P65Warnings.ca.gov</a>