

Product data sheet

Specifications



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

LC1F1700

Product availability: Non-Stock - Not normally stocked in distribution facility

Price*: 9,280.00 USD

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 104.0000000000 °F (40 °C)) <= 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 104.0000000000 °F (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 104.0000000000 °F (40 °C) - 10 s for power circuit 7500 A 104.0000000000 °F (40 °C) - 30 s 5500 A 104.0000000000 °F (40 °C) - 1 min 4200 A 104.0000000000 °F (40 °C) - 3 min 3000 A 104.0000000000 °F (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 IEC 60947-4-1 1500 V VDE 0110 group C 1000 V 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

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

Heat dissipation	18 W
Operating time	40...75 ms closing with LX1/LX9 coil 100...170 ms opening with LX1/LX9 coil 50...60 ms closing with LX4 coil 45...60 ms opening 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 3 100 x 5 mm Power circuit bolted connection Control circuit screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²)flexible without cable end Control circuit screw clamp terminals 2 0.002...0.006 in ² (1...4 mm ²)flexible with cable end Control circuit screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²)flexible with cable end Control circuit screw clamp terminals 2 0.002...0.004 in ² (1...2.5 mm ²)solid without cable end Control circuit screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²) Control circuit screw clamp terminals 2 0.002...0.006 in ² (1...4 mm ²)
Tightening torque	Power circuit 513.3 lbf.in (58 N.m) Control circuit 10.6 lbf.in (1.2 N.m)
Mechanical durability	0.5 Mcycles
Inrush power in VA	1600...2400 VA, 40...400 Hz cos phi 0.9 (at 68.0000000000 °F (20 °C))with LX1/LX9 coil 2000...2200 VA (at 68.0000000000 °F (20 °C))with LX4 coil
Hold-in power consumption in VA	29...37 VA, 40...400 Hz cos phi 0.9 (at 68.0000000000 °F (20 °C))with LX1/LX9 coil 8...10 VA (at 68.0000000000 °F (20 °C))with LX4 coil
Maximum operating rate	600 cyc/h 131.0000000000 °F (55 °C)

Environment

Protective treatment	TH
Ambient Air Temperature for Operation	23.0000000000...104.0000000000 °F (-5...40 °C)
Ambient Air Temperature for Storage	-76.0000000000...176.0000000000 °F (-60...80 °C)
Permissible ambient air temperature around the device	-40.0000000000...140.0000000000 °F (-40...60 °C)
Operating altitude	9842.52 ft (3000 m) without derating
Mechanical robustness	Vibrations contactor open2 Gn, 5...300 Hz Vibrations contactor closed4 Gn, 5...300 Hz Shocks contactor open6 Gn for 1/2 sine wave (11 ms) Shocks contactor closed15 Gn for 1/2 sine wave (11 ms)
Height	13.07 in (332 mm)
Width	17.2 in (438 mm)
Depth	9.4 in (238.6 mm)
Net Weight	66.1 lb(US) (30 kg)

Ordering and shipping details

Category	US10I1222336
Discount Schedule	0I12
GTIN	3389118372825
Returnability	No
Country of origin	CZ

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	15.6 in (39.5 cm)
Package 1 Width	19.7 in (50.0 cm)
Package 1 Length	24.4 in (62.0 cm)
Package 1 Weight	66.1 lb(US) (30.0 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-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	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
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 www.P65Warnings.ca.gov