

# Product data sheet

Specifications



## Contactor body, TeSys F, 3P(3NO), AC-3, <=440V 1100A without coil

LC1F400

⚠ Discontinued on: Jan 31, 2024

⚠ To be end-of-service on: Dec 31, 2025

⚠ Discontinued

Product availability: Stock - Normally stocked in distribution facility

## Main

Range	TeSys
Product Name	TeSys F
Product Or Component Type	Contactor
Device Short Name	LC1F
Contactor Application	Resistive load Motor control
Utilisation Category	AC-3 AC-1 AC-4
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	500 A 104 °F (40 °C) <= 440 V AC AC-1 400 A 131 °F (55 °C) <= 440 V AC AC-3
Motor Power Kw	185 kW at 1000 V AC 50/60 Hz (AC-3) 200 kW at 380...400 V AC 50/60 Hz (AC-3) 220 kW at 415 V AC 50/60 Hz (AC-3) 250 kW at 440 V AC 50/60 Hz (AC-3) 257 kW at 500 V AC 50/60 Hz (AC-3) 110 kW at 220...240 V AC 50/60 Hz (AC-3) 280 kW at 660...690 V AC 50/60 Hz (AC-3) 75 kW at 400 V AC 50/60 Hz (AC-4)

## Complementary

[Uc] Control Circuit Voltage	48...1000 V AC 40...400 Hz with LX1/LX9 coil 48...440 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	500 A (at 104 °F (40 °C))
Irms Rated Making Capacity	4000 A AC conforming to IEC 60947-4-1
Rated Breaking Capacity	3200 A conforming to IEC 60947-4-1

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

<b>[Icw] Rated Short-Time Withstand Current</b>	3600 A 104 °F (40 °C) - 10 s 2400 A 104 °F (40 °C) - 30 s 1700 A 104 °F (40 °C) - 1 min 1200 A 104 °F (40 °C) - 3 min 1000 A 104 °F (40 °C) - 10 min
<b>Associated Fuse Rating</b>	400 A aM at <= 440 V 500 A gG at <= 440 V
<b>Average Impedance</b>	0.26 mOhm - lth 500 A 50 Hz
<b>[Ui] Rated Insulation Voltage</b>	1000 V IEC 60947-4-1 1500 V VDE 0110 group C
<b>Power Dissipation Per Pole</b>	65 W AC-1 42 W AC-3
<b>Control Circuit Voltage Limits</b>	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 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
<b>Heat Dissipation</b>	14 W 2.2...5.5 W
<b>Operating Time</b>	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 40...80 ms closing with LXE coil 6...54 ms opening with LXE coil
<b>Mounting Support</b>	Plate
<b>Standards</b>	JIS C8201-4-1 IEC 60947-4-1 IEC 60947-1 EN 60947-4-1 EN 60947-1
<b>Product Certifications</b>	CB ABS DNV RMRoS LROS (Lloyds register of shipping) BV RINA UL CSA UKCA
<b>Connections - Terminals</b>	Power circuit bar 2 30 x 5 mm Power circuit lugs-ring terminals 2 0.23 in <sup>2</sup> (150 mm <sup>2</sup> ) Control circuit screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible without cable end Control circuit screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible with cable end Control circuit screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible with cable end Control circuit screw clamp terminals 2 0.00...0.00 in <sup>2</sup> (1...2.5 mm <sup>2</sup> )solid without cable end Control circuit screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) Control circuit screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) Control circuit screw clamp terminals 1.0 0.00...0.00 in <sup>2</sup> (0.2...2.5 mm <sup>2</sup> )flexible without cable end Control circuit screw clamp terminals 1.0 0.00...0.00 in <sup>2</sup> (0.25...2.5 mm <sup>2</sup> )flexible with cable end Control circuit screw clamp terminals 1.0 0.00...0.00 in <sup>2</sup> (0.2...2.5 mm <sup>2</sup> )solid without cable end
<b>Tightening Torque</b>	Power circuit 309.78 lbf.in (35 N.m) Control circuit 10.62 lbf.in (1.2 N.m) Control circuit 5.31 lbf.in (0.6 N.m)
<b>Mechanical Durability</b>	10 Mcycles

<b>Inrush Power In Va</b>	1000...1150 VA, 40...400 Hz cos phi 0.9 (at 68 °F (20 °C))with LX1/LX9 coil 920...1140 VA (at 68 °F (20 °C))with LX4 coil 360...470 VA, 50/60 Hz cos phi 0.5 (at 68 °F (20 °C))with LXE coil 410...450 VA (at 68 °F (20 °C))with LXE coil
<b>Hold-In Power Consumption In Va</b>	12...18 VA, 40...400 Hz cos phi 0.9 (at 68 °F (20 °C))with LX1/LX9 coil 4...7.5 VA (at 68 °F (20 °C))with LX4 coil 4.5...7.0 VA, 50/60 Hz cos phi 0.5 (at 68 °F (20 °C))with LXE coil 2.5...4.0 VA (at 68 °F (20 °C))with LXE coil
<b>Maximum Operating Rate</b>	2400 cyc/h 131 °F (55 °C)
<b>Compatibility Code</b>	LC1F

## Environment

<b>Ip Degree Of Protection</b>	IP20 front face with shrouds IEC 60529 IP20 front face with shrouds VDE 0106
<b>Protective Treatment</b>	TH
<b>Ambient Air Temperature For Operation</b>	23...131 °F (-5...55 °C)
<b>Ambient Air Temperature For Storage</b>	-76...176 °F (-60...80 °C)
<b>Permissible Ambient Air Temperature Around The Device</b>	-40...158 °F (-40...70 °C)
<b>Operating Altitude</b>	9842.52 ft (3000 m) without derating
<b>Mechanical Robustness</b>	Vibrations contactor open1.5 Gn, 5...300 Hz Vibrations contactor closed5 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)
<b>Height</b>	8.11 in (206 mm)
<b>Width</b>	8.39 in (213 mm)
<b>Depth</b>	8.62 in (219 mm)
<b>Net Weight</b>	17.64 lb(US) (8 kg)

## Ordering and shipping details

<b>Category</b>	US10I1222336
<b>Discount Schedule</b>	0I12
<b>Gtin</b>	3389110122114
<b>Returnability</b>	Yes
<b>Country Of Origin</b>	CZ

## Packing Units

<b>Unit Type Of Package 1</b>	PCE
<b>Number Of Units In Package 1</b>	1
<b>Package 1 Height</b>	10.24 in (26.000 cm)
<b>Package 1 Width</b>	9.65 in (24.500 cm)
<b>Package 1 Length</b>	12.80 in (32.500 cm)
<b>Package 1 Weight</b>	17.91 lb(US) (8.126 kg)
<b>Unit Type Of Package 2</b>	P06
<b>Number Of Units In Package 2</b>	10
<b>Package 2 Height</b>	29.53 in (75.000 cm)
<b>Package 2 Width</b>	23.62 in (60.000 cm)

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<b>Package 2 Length</b>	31.50 in (80.000 cm)
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<b>Package 2 Weight</b>	201.81 lb(US) (91.540 kg)
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## **Contractual warranty**

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<b>Warranty</b>	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 >](#)

## Well-being performance

 Mercury Free

 Rohs Exemption Information [Yes](#)

**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.

**Weee** The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

**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](http://www.P65Warnings.ca.gov)