Product data sheet

Specifications

Green Premium™

Contactor body,TeSys F,3P(3NO), AC-3, <=440V 115A, without coil

LC1F115

To be discontinued on: Dec 31, 2025

Discontinued

Product availability: Stock - Normally stocked in distribution facility

Price*: 401.00 USD

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-1 AC-4 AC-3
Poles Description	3P
Power Pole Contact Composition	3 NO
[Ue] Rated Operational Voltage	<= 690 V AC 50/60 Hz <= 460 V DC
[Ie] Rated Operational Current	200 A 104 °F (40 °C)) <= 440 V AC-1 115 A 131 °F (55 °C)) <= 440 V AC-3
Motor Power Kw	55 kW at 380...400 V AC 50/60 Hz (AC-3) 59 kW at 415 V AC 50/60 Hz (AC-3) 59 kW at 440 V AC 50/60 Hz (AC-3) 75 kW at 500 V AC 50/60 Hz (AC-3) 30 kW at 220...240 V AC 50/60 Hz (AC-3) 80 kW at 660...690 V AC 50/60 Hz (AC-3) 18.5 kW at 400 V AC 50/60 Hz (AC-4)

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	200 A (at 104 °F (40 °C))
Irms Rated Making Capacity	1150 A conforming to IEC 60947-4-1
Rated Breaking Capacity	920 A conforming to IEC 60947-4-1
[Icw] Rated Short-Time Withstand Current	1100 A 104 °F (40 °C) - 10 s 640 A 104 °F (40 °C) - 30 s 520 A 104 °F (40 °C) - 1 min 400 A 104 °F (40 °C) - 3 min 320 A 104 °F (40 °C) - 10 min

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

Associated Fuse Rating	125 A aM at <= 440 V 200 A gG at <= 440 V
Average Impedance	0.37 mOhm - Ith 200 A 50 Hz
[Ui] Rated Insulation Voltage	1000 V IEC 60947-4-1 1500 V VDE 0110 group C
Power Dissipation Per Pole	15 W AC-1 5 W AC-3
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	5.9…7.2 W 2.2…5.5 W
Operating Time	35 ms closing with LX9 coil 130 ms opening with LX9 coil 30...40 ms closing with LX4 coil 30...50 ms opening with LX4 coil 40...80 ms closing with LXE coil 6...54 ms opening with LXE coil
Mounting Support	Plate
Standards	EN 60947-1 JIS C8201-4-1 IEC 60947-4-1 EN 60947-4-1 IEC 60947-1
Product Certifications	RINA ABS CSA DNV RMRoS BV LROS (Lloyds register of shipping) UL CB UKCA
Connections - Terminals	Power circuit lugs-ring terminals 1 0.15 in² (95 mm²) Power circuit connector 1 0.15 in² (95 mm²) Power circuit bar 2 20 x 3 mm Power circuit bolted connection Control circuit screw clamp terminals 1 0.00…0.01 in² (1…4 mm²)flexible without cable end Control circuit screw clamp terminals 2 0.00…0.01 in² (1…4 mm²)flexible with cable end Control circuit screw clamp terminals 1 0.00…0.01 in² (1…4 mm²)flexible with cable end Control circuit screw clamp terminals 2 0.00…0.00 in² (1…2.5 mm²)solid without cable end Control circuit screw clamp terminals 1 0.00…0.01 in² (1…4 mm²) Control circuit screw clamp terminals 2 0.00…0.01 in² (1…4 mm²) Control circuit screw clamp terminals 1.0 0.00…0.00 in² (0.2…2.5 mm²)flexible without cable end Control circuit screw clamp terminals 1.0 0.00…0.00 in² (0.25…2.5 mm²)flexible with cable end Control circuit screw clamp terminals 1.0 0.00…0.00 in² (0.2…2.5 mm²)solid without cable end
Tightening Torque	Power circuit 88.51 lbf.in (10 N.m) Control circuit 10.62 lbf.in (1.2 N.m) Control circuit 5.31 lbf.in (0.6 N.m)
Mechanical Durability	10 Mcycles
Inrush Power In Va	590…855 VA, 40...400 Hz cos phi 0.9 (at 68 °F (20 °C))with LX9 coil 543…665 VA (at 68 °F (20 °C))with LX4 coil 280…310 VA, 50/60 Hz cos phi 0.5 (at 68 °F (20 °C))with LXE coil 270…320 VA (at 68 °F (20 °C))with LXE coil

Hold-In Power Consumption In Va	6.6…8.1 VA, 40...400 Hz cos phi 0.9 (at 68 °F (20 °C))with LX9 coil 3.94…4.83 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
Maximum Operating Rate	2400 cyc/h 131 °F (55 °C)
Compatibility Code	LC1F

Environment

Ip Degree Of Protection	IP2X front face with shrouds IEC 60529 IP2X front face with shrouds VDE 0106
Protective Treatment	TH
Ambient Air Temperature For Operation	-40…140 °F (-40…60 °C)
Ambient Air Temperature For Storage	-76…176 °F (-60…80 °C)
Permissible Ambient Air Temperature Around The Device	140…158 °F (60…70 °C) at Uc
Operating Altitude	9842.52 ft (3000 m) without derating
Mechanical Robustness	Vibrations contactor open2 Gn, 5...300 Hz Vibrations contactor closed6 Gn, 5...300 Hz Shocks contactor open9 Gn for 1/2 sine wave (11 ms) Shocks contactor closed15 Gn for 1/2 sine wave (11 ms)
Height	6.38 in (162 mm)
Width	6.44 in (163.5 mm)
Depth	6.73 in (171 mm)
Net Weight	8.44 lb(US) (3.83 kg)

Ordering and shipping details

Category	US10I1222336
Discount Schedule	0I12
Gtin	3389110122213
Returnability	Yes
Country Of Origin	FR

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	8.66 in (22.000 cm)
Package 1 Width	7.87 in (20.000 cm)
Package 1 Length	9.65 in (24.500 cm)
Package 1 Weight	7.76 lb(US) (3.522 kg)
Unit Type Of Package 2	P06
Number Of Units In Package 2	18
Package 2 Height	29.53 in (75.000 cm)
Package 2 Width	23.62 in (60.000 cm)
Package 2 Length	31.50 in (80.000 cm)
Package 2 Weight	158.50 lb(US) (71.896 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-CO_2 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