

Product data sheet

Specifications



contactor body without coil, TeSys F, 3P(3NO), AC-3, <=440V 1000A, with coil LX1/LX9, 110â€¦500V AC 40/400Hz, LX4 - 110...440V DC

LC1F1000

Product availability: Non-Stock - Not 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
Poles description	3P
power pole contact composition	3 NO
[Ue] rated operational voltage	<= 440 V AC 50/60 Hz
[Ie] rated operational current	1250 A 104 °F (40 °C)) <= 440 V AC AC-1 1000 A 131 °F (55 °C)) <= 440 V AC AC-3

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	1250 A (at 104 °F (40 °C))
Irms rated making capacity	10 kA AC conforming to IEC 60947-4-1
Rated breaking capacity	8 kA conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	7500 A 104 °F (40 °C) - 30 s 5500 A 104 °F (40 °C) - 1 min 4200 A 104 °F (40 °C) - 3 min 3000 A 104 °F (40 °C) - 10 min 10000 A 104 °F (40 °C) - 10 s
Associated fuse rating	1400 A gG at <= 440 V
Average impedance	0.1 mOhm - Ith 1250 A 50 Hz
[Ui] rated insulation voltage	1000 V IEC 60947-4-1 1500 V VDE 0110 group C
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 60947-4-1 IEC 60947-4-1 EN 60947-1 IEC 60947-1
Product Certifications	CB CSA CCC UKCA
Connections - terminals	Power circuit bar 4 Power circuit bar 3 Control circuit screw clamp terminals 1 0.002...0.006 in² (1...4 mm²)flexible without cable end Control circuit screw clamp terminals 2 0.002...0.006 in² (1...4 mm²)flexible with cable end Control circuit screw clamp terminals 1 0.002...0.006 in² (1...4 mm²)flexible with cable end Control circuit screw clamp terminals 2 0.002...0.004 in² (1...2.5 mm²)solid without cable end Control circuit screw clamp terminals 1 0.002...0.006 in² (1...4 mm²) Control circuit screw clamp terminals 2 0.002...0.006 in² (1...4 mm²)
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 °F (20 °C))with LX1/LX9 coil 2000...2200 VA (at 68 °F (20 °C))with LX4 coil
Hold-in power consumption in VA	29...37 VA, 40...400 Hz cos phi 0.9 (at 68 °F (20 °C))with LX1/LX9 coil 8...10 VA (at 68 °F (20 °C))with LX4 coil
Maximum operating rate	600 cyc/h 131 °F (55 °C)
Compatibility code	LC1F
Power range	315 kW 220...230 V 3 phase 560 kW 380...400 V 3 phase 630 kW 415 V 3 phase 670 kW 440 V 3 phase

Environment

IP degree of protection	IP20 front face with shrouds IEC 60529 IP20 front face with shrouds VDE 0106
Protective treatment	TH
Ambient Air Temperature for Operation	23...104 °F (-5...40 °C)
Ambient Air Temperature for Storage	-76...176 °F (-60...80 °C)
Permissible ambient air temperature around the device	-40...140 °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)

Product Weight	68.3 lb(US) (31 kg)
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Ordering and shipping details

Category	US10I1222336
Discount Schedule	0I12
GTIN	3606485432120
Returnability	No
Country of origin	CN

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	14.2 in (36.1 cm)
Package 1 Width	19.02 in (48.3 cm)
Package 1 Length	23.7 in (60.3 cm)
Package weight(Lbs)	50.7 lb(US) (23 kg)

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

 Environmental footprint	
Total lifecycle Carbon footprint	9 922 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	217 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	13 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.3 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	9 635 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	57 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile

Use Better

 Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No, we have minimized the use of plastic in the packaging in compliance with regulations and considering quality and safety standards
SCIP Number	F040462c-f312-4a6d-9d16-164be5751a29
EU RoHS Directive	Compliant By Exemption
REACH Regulation	Reference contains Substances of Very High Concern above the threshold
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

Use Longer

 Lifetime extension	
Repair	No

Use Again

 Repack and remanufacture	
Recyclability potential, in %	84
Circularity Profile	End of Life Information
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.