Product data sheet

Specifications



Contactor body, TeSys F, 3P(3NO), AC-1, <=1000V AC 2100A without coil

LC1F2100

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
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	2100 A 104 °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	2100 A (at 104 °F (40 °C))
Irms rated making capacity	3150 A AC conforming to IEC 60947-4-1
Rated breaking capacity	3150 A for power circuit conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	10000 A 104 °F (40 °C) - 10 s for power circuit 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
Associated fuse rating	2000 A gG at <= 440 V for power circuit conforming to IEC 60947-4-1
Average impedance	0.1 mOhm - Ith 2100 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...0.55 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

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

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	JIS C8201-4-1 EN 60947-1 EN 60947-4-1 IEC 60947-4-1 IEC 60947-1 UL 60947-4-1 CSA C22.2 No 60947-4-1
Product Certifications	CCC UL CB Scheme CSA EAC UKCA
Connections - terminals	Power circuit bar 4 Power circuit bolted connection 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)

Environment

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)

Ordering and shipping details

Category	US10I1222336

Discount Schedule	0I12
GTIN	3389118372658
Returnability	Yes
Country of origin	CN

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	15.0 in (38.0 cm)
Package 1 Width	19.7 in (50.0 cm)
Package 1 Length	23.6 in (60.0 cm)
Package weight(Lbs)	68.3 lb(US) (31.0 kg)

Contractual warranty

Warranty (in months)	18

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	**28 332 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]	**28 045 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.**