Product data sheet

Specifications

Contactor body,TeSys F,3P(3NO), AC-3, <=440V 800 A without coil

LC1F800

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	Motor control Resistive load
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	1000 A 104 °F (40 °C)) <= 440 V AC AC-1 800 A 131 °F (55 °C)) <= 440 V AC AC-3
Motor power kW	450 kW at 1000 V AC 50/60 Hz (AC-3) 450 kW at 500 V AC 50/60 Hz (AC-3) 475 kW at 660...690 V AC 50/60 Hz (AC-3) 110 kW at 400 V AC 50/60 Hz (AC-4) 450 kW at 380...400 V AC 50/60 Hz (AC-3) 450 kW at 415 V AC 50/60 Hz (AC-3) 450 kW at 440 V AC 50/60 Hz (AC-3) 250 kW at 220...240 V AC 50/60 Hz (AC-3)

Complementary

[Uc] control circuit voltage	110...400 V AC 40...400 Hz with LX1/LX9 coil 110...400 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	1000 A (at 104 °F (40 °C))
Irms rated making capacity	8000 A AC conforming to IEC 60947-4-1
Rated breaking capacity	6400 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.

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

[Icw] rated short-time withstand current	2600 A 104 °F (40 °C) - 3 min 5500 A 104 °F (40 °C) - 10 s 4600 A 104 °F (40 °C) - 30 s 3600 A 104 °F (40 °C) - 1 min 1700 A 104 °F (40 °C) - 10 min
Associated fuse rating	1000 A gG at <= 440 V 800 A aM at <= 440 V
Average impedance	0.12 mOhm - Ith 1000 A 50 Hz
[Ui] rated insulation voltage	1000 V IEC 60947-4-1 1500 V VDE 0110 group C
Power dissipation per pole	120 W AC-1 77 W AC-3
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: 0.3...0.5 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	25 W 2.2…5.5 W
Operating time	60...80 ms closing with LX1/LX9 coil 160...180 ms opening with LX1/LX9 coil 60...80 ms closing with LX4 coil 40...50 ms opening with LX4 coil 40...80 ms closing with LXE coil 6...54 ms opening with LXE coil
Mounting Support	Plate
Standards	IEC 60947-1 JIS C8201-4-1 EN 60947-1 IEC 60947-4-1 EN 60947-4-1
Product Certifications	CB CSA LROS (Lloyds register of shipping) ABS CCC UL UKCA
Connections - terminals	Power circuit bar 2 60 x 5 mm 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	5 Mcycles
Inrush power in VA	1700 VA, 40...400 Hz cos phi 0.9 (at 68 °F (20 °C))with LX1/LX9 coil 1900 VA (at 68 °F (20 °C))with LX4 coil 460…730 VA, 50/60 Hz cos phi 0.5 (at 68 °F (20 °C))with LXE coil 500…680 VA cos phi 0.5 (at 68 °F (20 °C))with LXE coil
Hold-in power consumption in VA	12 VA, 40...400 Hz cos phi 0.9 (at 68 °F (20 °C))with LX1/LX9 coil 12 VA (at 68 °F (20 °C))with LX4 coil 7…10 VA, 50/60 Hz cos phi 0.5 (at 68 °F (20 °C))with LXE coil 4.0…5.5 VA cos phi 0.5 (at 68 °F (20 °C))with LXE coil

Maximum operating rate	600 cyc/h 131 °F (55 °C)
Compatibility code	LC1F

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…131 °F (-5…55 °C)
Ambient Air Temperature for Storage	-76…176 °F (-60…80 °C)
Permissible ambient air temperature around the device	23…131 °F (-5…55 °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	12.0 in (304 mm)
Width	12.2 in (309 mm)
Depth	10.04 in (255 mm)
Net Weight	41.34 lb(US) (18.75 kg)

Ordering and shipping details

Category	US10I1222336
Discount Schedule	0I12
GTIN	3389110747072
Returnability	Yes
Country of origin	CZ

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	13.19 in (33.500 cm)
Package 1 Width	13.19 in (33.500 cm)
Package 1 Length	17.52 in (44.500 cm)
Package 1 Weight	37.909 lb(US) (17.195 kg)
Unit Type of Package 2	P06
Number of Units in Package 2	4
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	170.373 lb(US) (77.280 kg)

Contractual warranty

Warranty	18 months

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

Carbon footprint (kg CO2 eq, Total Life cycle)	6484
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Compliant with Exemptions
REACh Regulation	REACh Declaration
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 Again

Repack and remanufacture

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