Specifications



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

LC1F400

() Discontinued on: May 1, 2024

() To be discontinued

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	
[le] rated operational current	500 A (at <40 °C) at <= 440 V AC AC-1 400 A (at <55 °C) at <= 440 V AC AC-3	
Motor power kW	185 kW at 1000 V AC 50/60 Hz (AC-3) 200 kW at 380400 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 220240 V AC 50/60 Hz (AC-3) 280 kW at 660690 V AC 50/60 Hz (AC-3) 75 kW at 400 V AC 50/60 Hz (AC-4)	

Complementary

[Uc] control circuit voltage	481000 V AC 40400 Hz with LX1/LX9 coil 48440 V DC with LX4 coil 100250 V AC 50/60 Hz with LXE coil 100380 V DC with LXE coil
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	500 A (at 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
[Icw] rated short-time withstand current	3600 A 40 °C - 10 s 2400 A 40 °C - 30 s 1700 A 40 °C - 1 min 1200 A 40 °C - 3 min 1000 A 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.

Associated fuse rating	400 A aM at <= 440 V 500 A gG at <= 440 V	
Average impedance	0.26 mOhm - Ith 500 A 50 Hz	
[Ui] rated insulation voltage	1000 V conforming to IEC 60947-4-1 1500 V conforming to VDE 0110 group C	
Power dissipation per pole	65 W AC-1 42 W AC-3	
Control circuit voltage limits	Operational: 0.851.1 Uc AC 40400 Hz with LX1/LX9 coil Drop-out: 0.30.5 Uc AC 40400 Hz with LX1/LX9 coil Operational: 0.851.1 Uc DC with LX4 coil Drop-out: 0.20.35 Uc DC with LX4 coil Operational: 85275 V AC 50/60 Hz with LXE coil Drop-out: 060 V AC 50/60 Hz with LXE coil Operational: 85418 V DC with LXE coil Drop-out: 045 V DC with LXE coil	
Heat dissipation	14 W 2.25.5 W	
Operating time	4075 ms closing for with LX1/LX9 coil 100170 ms opening for with LX1/LX9 coil 5060 ms closing for with LX4 coil 4560 ms opening for with LX4 coil 4080 ms closing for with LXE coil 654 ms opening for with LXE coil	
Mounting support	Plate	
Standards	JIS C8201-4-1 IEC 60947-4-1 IEC 60947-1 EN 60947-4-1 EN 60947-1	
Product certifications	CB ABS DNV RMRoS LROS (Lloyds register of shipping) BV RINA UL CSA UKCA	
Connections - terminals	Power circuit: bar 2 cable(s) - busbar cross section: 30 x 5 mm Power circuit: lugs-ring terminals 2 cable(s) 150 mm ² Control circuit: screw clamp terminals 1 cable(s) 14 mm ² flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm ² flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm ² flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm ² flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm ² flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm ² Control circuit: screw clamp terminals 2 cable(s) 14 mm ² Control circuit: screw clamp terminals 1 cable(s) 0.22.5 mm ² flexible without cable end Control circuit: screw clamp terminals 1.0 cable(s) 0.22.5 mm ² flexible with cable end Control circuit: screw clamp terminals 1.0 cable(s) 0.22.5 mm ² flexible with cable end Control circuit: screw clamp terminals 1.0 cable(s) 0.22.5 mm ² flexible with cable end	
Tightening torque	Power circuit: 35 N.m Control circuit: 1.2 N.m Control circuit: 0.6 N.m	
Mechanical durability	10 Mcycles	
Inrush power in VA	10001150 VA, 40400 Hz cos phi 0.9 (at 20 °C)with LX1/LX9 coil 9201140 VA (at 20 °C)with LX4 coil 360470 VA, 50/60 Hz cos phi 0.5 (at 20 °C)with LXE coil 410450 VA (at 20 °C)with LXE coil	
Hold-in power consumption in VA	1218 VA, 40400 Hz cos phi 0.9 (at 20 °C)with LX1/LX9 coil 47.5 VA (at 20 °C)with LX4 coil 4.57.0 VA, 50/60 Hz cos phi 0.5 (at 20 °C)with LXE coil 2.54.0 VA (at 20 °C)with LXE coil	

Maximum operating rate	2400 cyc/h 55 °C
Compatibility code	LC1F

Environment

IP degree of protection	IP20 front face with shrouds conforming to IEC 60529	
	IP20 front face with shrouds conforming to VDE 0106	
Protective treatment	ТН	
ambient air temperature for operation	-555 °C	
Ambient air temperature for storage	-6080 °C	
Permissible ambient air temperature around the device	-4070 °C	
Operating altitude	3000 m without derating	
Mechanical robustness	Vibrations contactor open: 1.5 Gn, 5300 Hz	
	Vibrations contactor closed: 5 Gn, 5300 Hz	
	Shocks contactor open: 6 Gn for 1/2 sine wave (11 ms)	
	Shocks contactor closed: 15 Gn for 1/2 sine wave (11 ms)	
Height	206 mm	
Width	213 mm	
Depth	219 mm	
Net weight	8 kg	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	26.000 cm
Package 1 Width	24.500 cm
Package 1 Length	32.500 cm
Package 1 Weight	8.126 kg
Unit Type of Package 2	P06
Number of Units in Package 2	10
Package 2 Height	75.000 cm
Package 2 Width	60.000 cm
Package 2 Length	80.000 cm
Package 2 Weight	91.540 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.eq.CO2 per CR, Total Life cycle) 3555

Environmental Disclosure

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	

Product Environmental Profile

Use Again

${\mathbb O}$ 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