Specifications



① To be discontinued

### TeSys F contactor - 3P(3 NO)-AC-3 <= 440V 1100A with coil LX1/ LX9 -48...1000V AC 40/400Hz, LX4 -48...440V DC

LC1F500

() Discontinued on: 31-Dec-2024

#### Main

Wall		
Range	TeSys	
Product name	TeSys F	
Product or component type	Contactor	
Device short name	LC1F	
Contactor application	Resistive load Motor control	
Utilisation category	AC-4 AC-1 AC-3	
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	700 A (at <40 °C) at <= 440 V AC AC-1 500 A (at <55 °C) at <= 440 V AC AC-3	
Motor power kW	250 kW at 380400 V AC 50/60 Hz (AC-3) 280 kW at 415 V AC 50/60 Hz (AC-3) 295 kW at 440 V AC 50/60 Hz (AC-3) 335 kW at 1000 V AC 50/60 Hz (AC-3) 355 kW at 500 V AC 50/60 Hz (AC-3) 147 kW at 220240 V AC 50/60 Hz (AC-3) 335 kW at 660690 V AC 50/60 Hz (AC-3) 80 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	
[Uimp] rated impulse withstand voltage	8 kV	
Overvoltage category	III	
[Ith] conventional free air thermal current	700 A (at 40 °C)	
Irms rated making capacity	5000 A AC conforming to IEC 60947-4-1	
Rated breaking capacity	4000 A conforming to IEC 60947-4-1	
[Icw] rated short-time withstand current	4200 A 40 °C - 10 s 3200 A 40 °C - 30 s 2400 A 40 °C - 1 min 1500 A 40 °C - 3 min 1200 A 40 °C - 10 min	

Associated fuse rating	500 A aM at <= 440 V 800 A gG at <= 440 V
Average impedance	0.18 mOhm - Ith 700 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	88 W AC-1 45 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
Heat dissipation	18 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
Mounting support	Plate
Standards	JIS C8201-4-1 EN 60947-1 IEC 60947-1 EN 60947-4-1 IEC 60947-4-1
Product certifications	CSA LROS (Lloyds register of shipping) DNV BV ABS CB RMRoS RINA UL UKCA
Connections - terminals	Power circuit: lugs-ring terminals 2 cable(s) 240 mm <sup>2</sup> Power circuit: bar 2 cable(s) - busbar cross section: 40 x 5 mm Power circuit: bolted connection Control circuit: screw clamp terminals 1 cable(s) 14 mm <sup>2</sup> flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm <sup>2</sup> flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm <sup>2</sup> flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm <sup>2</sup> flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm <sup>2</sup> flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm <sup>2</sup> Control circuit: screw clamp terminals 2 cable(s) 14 mm <sup>2</sup>
Tightening torque	Power circuit: 35 N.m Control circuit: 1.2 N.m
Mechanical durability	10 Mcycles
Inrush power in VA	1050…1150 VA, 40400 Hz cos phi 0.9 (at 20 °C)with LX1/LX9 coil 990…1220 VA (at 20 °C)with LX4 coil
Hold-in power consumption in VA	1620 VA, 40400 Hz cos phi 0.9 (at 20 °C)with LX1/LX9 coil 4.548 VA (at 20 °C)with LX4 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 TH Ambient air temperature for operation -5...55 °C Ambient air temperature for storage -60...80 °C

Permissible ambient air temperature around the device	-4070 °C	
Operating altitude	3000 m without derating	
Mechanical robustness	Vibrations contactor open: 2 Gn, 5300 Hz Vibrations contactor closed: 4 Gn, 5300 Hz Shocks contactor open: 9 Gn for 1/2 sine wave (11 ms) Shocks contactor closed: 15 Gn for 1/2 sine wave (11 ms)	
Height	238 mm	
width	233 mm	
Depth	232 mm	
Net weight	9.75 kg	

## **Packing Units**

00 cm
00 cm
00 cm
98 kg
00 cm
00 cm
00 cm
32 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.

#### How this information helps you >

Ø Environmental footprint	
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	4052
Environmental Disclosure	Product Environmental Profile

#### **Use Better**

S Materials and Substances	
Packaging made with recycled cardboard	Νο
Packaging without single use plastic	Νο
EU RoHS Directive	Compliant with Exemptions
REACh Regulation	<b>REACh Declaration</b>
China RoHS Regulation	China RoHS declaration

#### **Use Again**

$\bigcirc$ Repack and remanufacture	
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins