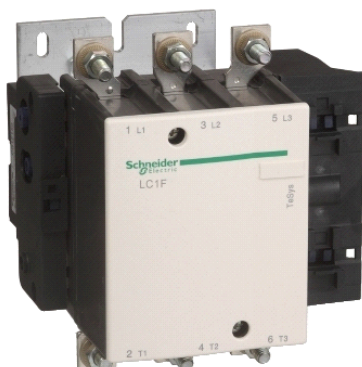




Main

Range	TeSys
Product name	TeSys F
Product or component type	Contacteur
Device short name	LC1F
Contacteur application	Motor control Resistive load
Utilisation category	AC-1 AC-3 AC-4
Poles description	3P
Pole contact composition	3 NO
System Voltage	<= 460 V DC <= 460 V DC <= 690 V AC 50/60 Hz
[Ie] rated operational current	275 A (<= 40 °C) at <= 440 V AC-1 185 A (<= 55 °C) at <= 440 V AC-3
Motor power kW	55 kW at 220...230 V AC 50/60 Hz AC-3 90 kW at 380...400 V AC 50/60 Hz AC-3 100 kW at 415 V AC 50/60 Hz AC-3 100 kW at 440 V AC 50/60 Hz AC-3 110 kW at 500 V AC 50/60 Hz AC-3 110 kW at 660...690 V AC 50/60 Hz AC-3 33 kW at 400 V AC 50/60 Hz AC-4
[Uc] control circuit voltage	120 V AC 60 Hz

Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	275 A at <= 104 °F (40 °C)
Rated breaking capacity	1480 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	1500 A <= 104 °F (40 °C) 10 s 920 A <= 104 °F (40 °C) 30 s 740 A <= 104 °F (40 °C) 1 min 500 A <= 104 °F (40 °C) 3 min 400 A <= 104 °F (40 °C) 10 min
Associated fuse rating	200 A aM at <= 440 V 315 A gG at <= 440 V
Average impedance	0.33 mOhm at 50 Hz - Ith 275 A
[Ui] rated insulation voltage	1000 V conforming to IEC 60947-4-1 1500 V conforming to VDE 0110 group C
Power dissipation per pole	12 W AC-3 25 W AC-1
Mounting support	Plate
Standards	EN 60947-1 EN 60947-4-1 IEC 60947-1 IEC 60947-4-1 JIS C8201-4-1
Product certifications	ABS BV CCC DNV LR0S (Lloyds register of shipping) RINA RMRoS UL

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Connections - terminals	Control circuit: screw clamp terminals 2 cable(s) 0...0 in ² (1...2.5 mm ²) - cable stiffness: flexible - with cable end Power circuit: connector 1 cable(s) 0.23 in ² (150 mm ²) Control circuit: screw clamp terminals 1 cable(s) 0...0.01 in ² (1...4 mm ²) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 0...0.01 in ² (1...4 mm ²) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 0...0.01 in ² (1...4 mm ²) - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 0...0.01 in ² (1...4 mm ²) - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 0...0.01 in ² (1...4 mm ²) - cable stiffness: solid - without cable end Power circuit: lugs-ring terminals 1 cable(s) 0.23 in ² (150 mm ²) Power circuit : bolted connection Power circuit : bar 2 x (25 x 3 mm)
Tightening torque	Control circuit: 10.62 lbf.in (1.2 N.m) Power circuit: 159.29 lbf.in (18 N.m)
Control circuit voltage limits	0.85...1.1 Uc at 131 °F (55 °C) operational 50/60 Hz 0.35...0.55 Uc at 131 °F (55 °C) drop-out 50/60 Hz
Inrush power in VA	970 VA at 68 °F (20 °C) (cos φ 0.3) 60 Hz
Hold-in power consumption in VA	66 VA at 68 °F (20 °C) (cos φ 0.3) 60 Hz
Heat dissipation	18...24 W
Operating time	20...35 ms closing 7...15 ms opening
Mechanical durability	10 Mcycles
Operating rate	2400 cyc/h at ≤ 131 °F (55 °C)

Environment

IP degree of protection	IP2x front face with shrouds (ordered separately) conforming to IEC 60529 IP2x front face with shrouds (ordered separately) conforming to 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	-40...158 °F (-40...70 °C)
operating altitude	9842.52 ft (3000 m) without derating
mechanical robustness	Vibrations resistance contactor open 2 Gn, 5...300 Hz Shocks resistance contactor closed 15 Gn for 11 ms Vibrations resistance contactor closed 5 Gn, 5...300 Hz Shocks resistance contactor open 7 Gn for 11 ms
height	6.85 in (174 mm)
width	6.63 in (168.5 mm)
depth	7.13 in (181 mm)
product weight	10.25 lb(US) (4.65 kg)

Offer Sustainability

Green Premium product	Green Premium product
Compliant - since 0843 - Schneider Electric declaration of conformity	Compliant - since 0843 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Available	Available
Available	Available
WARNING: This product can expose you to chemicals including:	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.	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	For more information go to www.p65warnings.ca.gov

Contractual warranty

Warranty period	18 months
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