



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	4P
Power pole contact composition	4 NO
[Ue] rated operational voltage	≤ 690 V AC 50/60 Hz
[Ie] rated operational current	200 A (≤ 40 °C) at ≤ 440 V AC-1
[Uc] control circuit voltage	600 V AC 40...400 Hz

Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	200 A at ≤ 40 °C
Rated breaking capacity	920 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	1100 A ≤ 40 °C 10 s 640 A ≤ 40 °C 30 s 520 A ≤ 40 °C 1 min 400 A ≤ 40 °C 3 min 320 A ≤ 40 °C 10 min
Associated fuse rating	125 A aM at ≤ 440 V 200 A gG at ≤ 440 V
Average impedance	0.37 mOhm at 50 Hz - Ith 200 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	15 W AC-1
Mounting support	Plate
Standards	EN 60947-1 JIS C8201-4-1 IEC 60947-1 IEC 60947-4-1

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

Product certifications	RMRoS DNV CB ABS UL CCC LROS (Lloyds register of shipping) RINA BV
Connections - terminals	Control circuit : screw clamp terminals 2 cable(s) 1...2.5 mm ² - cable stiffness: flexible - with cable end Power circuit : connector 1 cable(s) 95 mm ² Control circuit : screw clamp terminals 1 cable(s) 1...4 mm ² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 2 cable(s) 1...4 mm ² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 1 cable(s) 1...4 mm ² - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 1 cable(s) 1...4 mm ² - cable stiffness: solid - without cable end Control circuit : screw clamp terminals 2 cable(s) 1...4 mm ² - cable stiffness: solid - without cable end Power circuit : lugs-ring terminals 1 cable(s) 95 mm ² Power circuit : bolted connection Power circuit : bar 2 x (20 x 3 mm)
Tightening torque	Control circuit : 1.2 N.m Power circuit : 10 N.m
Control circuit voltage limits	0.35...0.55 U _c at 55 °C drop-out 50/60 Hz 0.85...1.1 U _c at 55 °C operational 50/60 Hz
Inrush power in VA	660 VA at 20 °C (cos φ 0.3) 60 Hz
Hold-in power consumption in VA	55 VA at 20 °C (cos φ 0.3) 60 Hz
Heat dissipation	12...16 W
Operating time	23...35 ms closing 5...15 ms opening
Mechanical durability	10 Mcycles
Operating rate	2400 cyc/h at ≤ 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	-5...55 °C
Ambient air temperature for storage	-60...80 °C
Permissible ambient air temperature around the device	-40...70 °C
Operating altitude	3000 m without derating
Height	162 mm
Width	200.5 mm
Depth	171 mm
Product weight	3.83 kg

Offer Sustainability

RoHS (date code: YYWW)	Compliant - since 0852 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
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Contractual warranty

Warranty period	18 months
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