



Main

Range	TeSys
Product name	TeSys F
Product or component type	Contactors
Device short name	LC1F
Contactors application	Resistive load Motor control
Utilisation category	AC-1 AC-4 AC-3
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	≤ 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	500 V AC 40...400 Hz

Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	275 A at ≤ 40 °C
Rated breaking capacity	1480 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	1500 A ≤ 40 °C 10 s

	920 A <= 40 °C 30 s 740 A <= 40 °C 1 min 500 A <= 40 °C 3 min 400 A <= 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	IEC 60947-4-1 JIS C8201-4-1 IEC 60947-1 EN 60947-1 EN 60947-4-1
Product certifications	UL CCC CB RINA RMRoS DNV LROS (Lloyds register of shipping) BV ABS
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) 150 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) 150 mm ² Power circuit : bolted connection Power circuit : bar 2 x (25 x 3 mm)
Tightening torque	Control circuit : 1.2 N.m Power circuit : 18 N.m
Control circuit voltage limits	0.35...0.55 Uc at 55 °C drop-out 50/60 Hz 0.85...1.1 Uc at 55 °C operational 50/60 Hz
Inrush power in VA	805 VA at 20 °C (cos φ 0.3) 50 Hz 970 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) 50 Hz 66 VA at 20 °C (cos φ 0.3) 60 Hz
Heat dissipation	18...24 W
Operating time	35 ms closing (at Uc) 130 ms opening (at Uc)
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	174 mm
Width	168.5 mm

Depth	181 mm
Product weight	4.65 kg

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0843 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available Product Environmental Profile
Product end of life instructions	Available End of Life Information

Contractual warranty

Warranty period	18 months
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