



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	<= 1000 V AC 50/60 Hz <= 460 V DC
[Ie] rated operational current	400 A (<= 104 °F (40 °C)) at <= 440 V AC AC-1 330 A (<= 131 °F (55 °C)) at <= 440 V AC AC-3
Motor power kW	160 kW at 380...400 V AC 50/60 Hz AC-3 200 kW at 500 V AC 50/60 Hz AC-3 180 kW at 415 V AC 50/60 Hz AC-3 200 kW at 440 V AC 50/60 Hz AC-3 160 kW at 1000 V AC 50/60 Hz AC-3 100 kW at 220...230 V AC 50/60 Hz AC-3 59 kW at 400 V AC 50/60 Hz AC-4 220 kW at 660...690 V AC 50/60 Hz AC-3
[Uc] control circuit voltage	208 V AC 40...400 Hz

Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	400 A at <= 104 °F (40 °C)
Rated breaking capacity	2640 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	2650 A <= 104 °F (40 °C) 10 s 1800 A <= 104 °F (40 °C) 30 s 1300 A <= 104 °F (40 °C) 1 min 900 A <= 104 °F (40 °C) 3 min 750 A <= 104 °F (40 °C) 10 min
Associated fuse rating	400 A aM at <= 440 V 500 A gG at <= 440 V
Average impedance	0.28 mOhm at 50 Hz - Ith 400 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	31 W AC-3 44 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 LROS (Lloyds register of shipping) RINA RMRoS UL

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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 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) 0.37 in ² (240 mm ²) Power circuit : bolted connection Power circuit : bar 2 x (30 x 5 mm)
Tightening torque	Power circuit: 309.73 lbf.in (35 N.m) Control circuit: 10.62 lbf.in (1.2 N.m)
Control circuit voltage limits	0.85...1.1 Uc at 131 °F (55 °C) operational 40...400 Hz 0.35...0.55 Uc at 131 °F (55 °C) drop-out 40...400 Hz
Inrush power in VA	650 VA at 68 °F (20 °C) (cos ϕ 0.9) 40...400 Hz
Hold-in power consumption in VA	10 VA at 68 °F (20 °C) (cos ϕ 0.9) 40...400 Hz
Heat dissipation	8 W
Operating time	100...170 ms opening 40...65 ms closing
Mechanical durability	10 Mcycles
Operating rate	2400 cyc/h at \leq 131 °F (55 °C)

Environment

IP degree of protection	IP20 front face with shrouds (ordered separately) conforming to IEC 60529 IP20 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 Shocks resistance contactor open 6 Gn for 11 ms Vibrations resistance contactor closed 5 Gn, 5...300 Hz
height	8.11 in (206 mm)
width	8.39 in (213 mm)
depth	8.62 in (219 mm)
product weight	18.96 lb(US) (8.6 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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