



Product availability : Stock - Normally stocked in distribution facility



Main

Range of product	TeSys F
Range	TeSys
Product name	TeSys F
Product or component type	Contactor
Device short name	LC1F
Contactor application	Resistive load Motor control
Motor power kW	65 kW at 1000 V AC 50/60 Hz AC-3 40 kW at 220...230 V AC 50/60 Hz AC-3 75 kW at 380...400 V AC 50/60 Hz AC-3 90 kW at 500 V AC 50/60 Hz AC-3 22 kW at 400 V AC 50/60 Hz AC-4 80 kW at 415 V AC 50/60 Hz AC-3 80 kW at 440 V AC 50/60 Hz AC-3 100 kW at 660...690 V AC 50/60 Hz AC-3
Control circuit type	AC 40...400 Hz
[Uc] control circuit voltage	110 V AC 40...400 Hz
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	250 A at ≤ 104 °F (40 °C)
Rated breaking capacity	1200 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	1200 A ≤ 104 °F (40 °C) 10 s 700 A ≤ 104 °F (40 °C) 30 s 600 A ≤ 104 °F (40 °C) 1 min 450 A ≤ 104 °F (40 °C) 3 min 350 A ≤ 104 °F (40 °C) 10 min
Associated fuse rating	160 A aM at ≤ 440 V 250 A gG at ≤ 440 V
Average impedance	0.35 mOhm at 50 Hz - Ith 250 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	22 W AC-1 8 W AC-3
Mounting support	Plate
Standards	IEC 60947-1 IEC 60947-4-1 EN 60947-4-1 JIS C8201-4-1 EN 60947-1
Product certifications	RINA CCC DNV UL ABS CB CSA LROS RMRoS
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) 0.19 in ² (120 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) 0.19 in ² (120 mm ²) Power circuit: bar 2 x (25 x 3 mm) Power circuit : bolted connection
Tightening torque	Control circuit: 10.62 lbf.in (1.2 N.m) Power circuit: 159.29 lbf.in (18 N.m)
Operating time	23...35 ms closing 5...15 ms opening
Mechanical durability	10 Mcycles
Operating rate	2400 cyc/h at <= 131 °F (55 °C)

Complementary

Utilisation category	AC-4 AC-3 AC-1
Poles description	3P
Pole contact composition	3 NO
System Voltage	<= 1000 V AC 50/60 Hz <= 460 V DC
[Ie] rated operational current	250 A (<= 104 °F (40 °C)) at <= 440 V AC AC-1 150 A (<= 131 °F (55 °C)) at <= 440 V AC AC-3
Control circuit voltage limits	0.35...0.55 Uc at 131 °F (55 °C) drop-out 50/60 Hz 0.85...1.1 Uc at 131 °F (55 °C) operational 50/60 Hz
Inrush power in VA	550 VA at 68 °F (20 °C) (cos φ 0.3) 50 Hz 660 VA at 68 °F (20 °C) (cos φ 0.3) 60 Hz
Hold-in power consumption in VA	45 VA at 68 °F (20 °C) (cos φ 0.3) 50 Hz 55 VA at 68 °F (20 °C) (cos φ 0.3) 60 Hz
Heat dissipation	12...16 W

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 in temperature
Mechanical robustness	Vibrations contactor closed 6 Gn, 5...300 Hz Shocks contactor open 9 Gn for 11 ms Vibrations contactor open 2 Gn, 5...300 Hz Shocks contactor closed 15 Gn for 11 ms
Height	6.69 in (170 mm)
Width	6.44 in (163.5 mm)
Depth	6.73 in (171 mm)
Product weight	7.56 lb(US) (3.43 kg)

Ordering and shipping details

Category	22336 - CTR,F-LINE,AC,OPEN,NONREV
Discount Schedule	I12
GTIN	00785901181651
Nbr. of units in pkg.	1
Package weight(Lbs)	8.919999999999999
Returnability	Y
Country of origin	CZ

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 end of life instructions	Available

Contractual warranty

Warranty period	18 months
-----------------	-----------