



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	Motor control Resistive load
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-3 220 kW at 660...690 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
Control circuit type	AC 40...400 Hz
[Uc] control circuit voltage	120 V AC 40...400 Hz
[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

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

[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 60947-4-1 JEM 1038 EN 60947-1 IEC 60947-4-1 IEC 60947-1
Product certifications	DNV UL CCC RMRoS BV CSA LROS (Lloyds register of shipping) GL
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: bar 2 x (30 x 5 mm) Power circuit : bolted connection
Tightening torque	Power circuit: 309.73 lbf.in (35 N.m) Control circuit: 10.62 lbf.in (1.2 N.m)
Operating time	100...170 ms opening 40...65 ms closing
Mechanical durability	10 Mcycles
Operating rate	2400 cyc/h at <= 131 °F (55 °C)

Complementary

Utilisation category	AC-4 AC-1 AC-3
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
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
Power range	110...220 kW 380...440 V 3 phases 55...100 kW 200...240 V 3 phases 110...220 kW 480...500 V 3 phases
Motor starter type	Direct on-line contactor
Contacting coil voltage	120 V AC standard

Environment

IP degree of protection	IP20 front face with shrouds (ordered separately) conforming to IEC 60529
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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 in temperature
Mechanical robustness	Vibrations contactor closed 5 Gn, 5...300 Hz Vibrations contactor open 2 Gn, 5...300 Hz Shocks contactor closed 15 Gn for 11 ms Shocks contactor open 6 Gn for 11 ms
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)

Ordering and shipping details

Category	22336 - CTR,F-LINE,AC,OPEN,NONREV
Discount Schedule	I12
GTIN	00785901079842
Nbr. of units in pkg.	1
Package weight(Lbs)	20.52
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
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