



## 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	110 kW at 660...690 V AC 50/60 Hz 100 kW at 1000 V AC 50/60 Hz 100 kW at 415 V AC 50/60 Hz 100 kW at 440 V AC 50/60 Hz 110 kW at 500 V AC 50/60 Hz 55 kW at 220...230 V AC 50/60 Hz 90 kW at 380...400 V AC 50/60 Hz
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	275 A at $\leq 104$ °F (40 °C)
Rated breaking capacity	1480 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	1500 A $\leq 104$ °F (40 °C) 10 s 920 A $\leq 104$ °F (40 °C) 30 s 740 A $\leq 104$ °F (40 °C) 1 min 500 A $\leq 104$ °F (40 °C) 3 min 400 A $\leq 104$ °F (40 °C) 10 min
Associated fuse rating	200 A aM at $\leq 440$ V 315 A gG at $\leq 440$ 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	EN 60947-4-1 IEC 60947-4-1 JEM 1038 IEC 60947-1 EN 60947-1
Product certifications	LROS (Lloyds register of shipping) CCC BV UL GL DNV CSA RMRoS
Connections - terminals	Control circuit: screw clamp terminals 2 cable(s) 0...0 in <sup>2</sup> (1...2.5 mm <sup>2</sup> ) - cable stiffness: flexible - with cable end Power circuit: connector 1 cable(s) 0.23 in <sup>2</sup> (150 mm <sup>2</sup> ) Control circuit: screw clamp terminals 1 cable(s) 0...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 0...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 0...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 0...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 0...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) - cable stiffness: solid - without cable end Power circuit: lugs-ring terminals 1 cable(s) 0.23 in <sup>2</sup> (150 mm <sup>2</sup> ) 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	20...35 ms closing 7...15 ms opening
Mechanical durability	10 Mcycles
Operating rate	2400 cyc/h at <= 131 °F (55 °C)

## Complementary

Utilisation category	AC-3 AC-1
Poles description	3P
Pole contact composition	3 NO
System Voltage	<= 1000 V AC 50/60 Hz <= 460 V DC
[I <sub>e</sub> ] rated operational current	275 A (<= 104 °F (40 °C)) at <= 440 V AC AC-1 185 A (<= 131 °F (55 °C)) at <= 440 V AC AC-3
Control circuit voltage limits	0.35...0.55 U <sub>c</sub> at 131 °F (55 °C) drop-out 50/60 Hz 0.85...1.1 U <sub>c</sub> at 131 °F (55 °C) operational 50/60 Hz
Inrush power in VA	805 VA at 68 °F (20 °C) (cos φ 0.3) 50 Hz 970 VA at 68 °F (20 °C) (cos φ 0.3) 60 Hz
Hold-in power consumption in VA	55 VA at 68 °F (20 °C) (cos φ 0.3) 50 Hz 66 VA at 68 °F (20 °C) (cos φ 0.3) 60 Hz
Heat dissipation	18...24 W
Power range	30...50 kW 200...240 V 3 phases 55...100 kW 200...240 V 3 phases 55...100 kW 380...440 V 3 phases 55...100 kW 480...500 V 3 phases 110...220 kW 480...500 V 3 phases
Motor starter type	Direct on-line contactor
Contacting coil voltage	110 V AC

## 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 5 Gn, 5...300 Hz Shocks contactor open 7 Gn for 11 ms Vibrations contactor open 2 Gn, 5...300 Hz Shocks contactor closed 15 Gn for 11 ms
Height	6.85 in (174 mm)
Width	6.63 in (168.5 mm)
Depth	7.13 in (181 mm)
Product weight	10.25 lb(US) (4.65 kg)

## Ordering and shipping details

Category	22336 - CTR,F-LINE,AC,OPEN,NONREV
Discount Schedule	I12
GTIN	00785901173717
Nbr. of units in pkg.	1
Package weight(Lbs)	11.09
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 <a href="#">Schneider Electric declaration of conformity</a>
REACH	Reference not containing SVHC above the threshold <a href="#">Reference not containing SVHC above the threshold</a>
Product environmental profile	Available
Product end of life instructions	Available

## Contractual warranty

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