

LC1F1000

TeSys F contactor - 3P(3 NO)-AC-3 <= 440V
1000 A with coil LX1/ LX9 - 110...500V AC
40/400Hz, LX4 - 110...440V DC



Main

Range	TeSys
Product name	TeSys F
Product or Component Type	Contactor
Device short name	LC1F
Contactor application	Resistive load Motor control
Utilisation category	AC-3 AC-1
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	<= 440 V AC 50/60 Hz
[Ie] rated operational current	1250 A 104 °F (40 °C)) <= 440 V AC AC-1 1000 A 131 °F (55 °C)) <= 440 V AC AC-3

Complementary

[Uc] control circuit voltage	110...500 V AC 40...400 Hz with LX1/LX9 coil 110...440 V DC with LX4 coil
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	1250 A 104 °F (40 °C)
Irms rated making capacity	10 kA AC IEC 60947-4-1
Rated breaking capacity	8 kA IEC 60947-4-1
[Icw] rated short-time withstand current	7500 A 104 °F (40 °C) - 30 s 5500 A 104 °F (40 °C) - 1 min 4200 A 104 °F (40 °C) - 3 min 3000 A 104 °F (40 °C) - 10 min 10000 A 104 °F (40 °C) - 10 s
Associated fuse rating	2000 A gG <= 440 V
Average impedance	0.1 mOhm - Ith 1250 A 50 Hz
[Ui] rated insulation voltage	1000 V IEC 60947-4-1 1500 V VDE 0110 group C
Power dissipation per pole	200 W AC-1
Control circuit voltage limits	Operational 0.85...1.1 Uc AC 40...400 Hz Drop-out 0.3...0.5 Uc AC 40...400 Hz Operational 0.85...1.1 Uc DC Drop-out 0.2...0.35 Uc DC
Heat dissipation	18 W
Operating time	40...75 ms closing with LX1/LX9 coil 100...170 ms opening with LX1/LX9 coil 50...60 ms closing with LX4 coil 45...60 ms opening with LX4 coil
Mounting Support	Plate
Standards	EN 60947-4-1 IEC 60947-4-1 EN 60947-1 IEC 60947-1

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Product certifications	CB CSA CCC UKCA
Connections - terminals	Power circuit bar 4 Power circuit bar 3 Control circuit screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²)flexible without cable end Control circuit screw clamp terminals 2 0.00...0.01 in ² (1...4 mm ²)flexible with cable end Control circuit screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²)flexible with cable end Control circuit screw clamp terminals 2 0.00...0.00 in ² (1...2.5 mm ²)solid without cable end Control circuit screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²) Control circuit screw clamp terminals 2 0.00...0.01 in ² (1...4 mm ²)
Tightening torque	Power circuit 513.34 lbf.in (58 N.m) Control circuit 10.62 lbf.in (1.2 N.m)
Mechanical durability	0.5 Mcycles
Inrush power in VA	1600...2400 VA, 40...400 Hz cos phi 0.9 (at 68 °F (20 °C))with LX1/LX9 coil 2000...2200 VA (at 68 °F (20 °C))with LX4 coil
Hold-in power consumption in VA	29...37 VA 8...10 VA
Maximum operating rate	600 cyc/h 131 °F (55 °C)
Compatibility code	LC1F

Environment

IP degree of protection	IP20 front face with shrouds IEC 60529 IP20 front face with shrouds VDE 0106
Protective treatment	TH
Ambient Air Temperature for Operation	23...104 °F (-5...40 °C)
Ambient Air Temperature for Storage	-76...176 °F (-60...80 °C)
Permissible ambient air temperature around the device	-40...140 °F (-40...60 °C)
Operating altitude	9842.52 ft (3000 m) without derating
Mechanical robustness	Vibrations contactor open2 Gn, 5...300 Hz Vibrations contactor closed4 Gn, 5...300 Hz Shocks contactor open6 Gn for 1/2 sine wave (11 ms) Shocks contactor closed15 Gn for 1/2 sine wave (11 ms)
Height	13.07 in (332 mm)
Width	17.24 in (438 mm)
Depth	9.39 in (238.6 mm)
Net Weight	68.34 lb(US) (31 kg)

Ordering and shipping details

Category	22336-CTR,F-LINE,AC,OPEN,NONREV
Discount Schedule	I12
GTIN	3606485432120
Nbr. of units in pkg.	1
Package weight(Lbs)	50.71 lb(US) (23 kg)
Returnability	No

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	14.21 in (36.1 cm)
Package 1 width	19.02 in (48.3 cm)
Package 1 Length	23.74 in (60.3 cm)
Unit Type of Package 2	CAR
Number of Units in Package 2	1
Package 2 Weight	47.40 lb(US) (21.5 kg)
Package 2 Height	14.21 in (36.1 cm)
Package 2 width	19.02 in (48.3 cm)

Package 2 Length	23.74 in (60.3 cm)
Unit Type of Package 3	P06
Number of Units in Package 3	1
Package 3 Weight	66.14 lb(US) (30 kg)
Package 3 Height	30.31 in (77 cm)
Package 3 width	31.50 in (80 cm)
Package 3 Length	23.62 in (60 cm)

Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	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. For more information go to www.P65Warnings.ca.gov
REACH Regulation	 REACH Declaration
EU RoHS Directive	Compliant  EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	 Yes
China RoHS Regulation	 China RoHS Declaration
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Contractual warranty

Warranty	18 months
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