

LC1F500

TeSys F contactor - 3P(3 NO)-AC-3 <= 440V
1100A with coil LX1/ LX9 - 48...1000V AC
40/400Hz, LX4 - 48...440V DC



Main

Range	TeSys
Product name	TeSys F
Product or component type	Contacteur
Device short name	LC1F
Contacteur application	Resistive load Motor control
Utilisation category	AC-4 AC-1 AC-3
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	<= 1000 V AC 50/60 Hz <= 460 V DC
[Ie] rated operational current	700 A 104 °F (40 °C) <= 440 V AC AC-1 500 A 131 °F (55 °C) <= 440 V AC AC-3
Motor power kW	250 KW 380...400 V AC 50/60 Hz AC-3) 280 KW 415 V AC 50/60 Hz AC-3) 295 KW 440 V AC 50/60 Hz AC-3) 335 KW 1000 V AC 50/60 Hz AC-3) 355 KW 500 V AC 50/60 Hz AC-3) 147 KW 220...240 V AC 50/60 Hz AC-3) 335 KW 660...690 V AC 50/60 Hz AC-3) 80 kW 400 V AC 50/60 Hz AC-4)

Complementary

[Uc] control circuit voltage	48...1000 V AC 40...400 Hz with LX1/LX9 coil 48...440 V DC with LX4 coil
[Uimp] rated impulse withstand voltage	8 kV
Overtoltage category	III
[Ith] conventional free air thermal current	700 A 104 °F (40 °C)
Irms rated making capacity	5000 A AC IEC 60947-4-1
Rated breaking capacity	4000 A IEC 60947-4-1
[Icw] rated short-time withstand current	4200 A 104 °F (40 °C) - 10 s 3200 A 104 °F (40 °C) - 30 s 2400 A 104 °F (40 °C) - 1 min 1500 A 104 °F (40 °C) - 3 min 1200 A 104 °F (40 °C) - 10 min
Associated fuse rating	500 A aM <= 440 V 800 A gG <= 440 V
Average impedance	0.18 mOhm - Ith 700 A 50 Hz
[Ui] rated insulation voltage	1000 V IEC 60947-4-1 1500 V VDE 0110 group C
Power dissipation per pole	88 W AC-1 45 W AC-3
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

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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	JIS C8201-4-1 EN 60947-1 IEC 60947-1 EN 60947-4-1 IEC 60947-4-1
Product certifications	CSA LROS (Lloyds register of shipping) DNV BV ABS CB RMRoS RINA UL UKCA
Connections - terminals	Power circuit lugs-ring terminals 2 0.37 in ² (240 mm ²) Power circuit bar 2 40 x 5 mm Power circuit bolted connection 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 309.78 lbf.in (35 N.m) Control circuit 10.62 lbf.in (1.2 N.m)
Mechanical durability	10 Mcycles
Inrush power in VA	1050...1150 VA, 40...400 Hz cos phi 0.9 (at 68 °F (20 °C))with LX1/LX9 coil 990...1220 VA (at 68 °F (20 °C))with LX4 coil
Hold-in power consumption in VA	16...20 VA 4.54...8 VA
Maximum operating rate	2400 cyc/h 131 °F (55 °C)
Compatibility code	LC1F

Environment

IP degree of protection	IP20 front face with shrouds conforming to IEC 60529 IP20 front face with shrouds 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	3000 m without derating
Mechanical robustness	Vibrations contactor open2 Gn, 5...300 Hz Vibrations contactor closed4 Gn, 5...300 Hz Shocks contactor open9 Gn for 1/2 sine wave (11 ms) Shocks contactor closed15 Gn for 1/2 sine wave (11 ms)
Height	9.37 in (238 mm)
Width	9.17 in (233 mm)
Depth	9.13 in (232 mm)
Net Weight	21.50 lb(US) (9.75 kg)

Ordering and shipping details

Category	22336 - CTR,F-LINE,AC,OPEN,NONREV
Discount Schedule	I12
GTIN	00785901098140
Nbr. of units in pkg.	1
Package weight(Lbs)	23.72 lb(US) (10.76 kg)
Returnability	Yes
Country of origin	CZ

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	10.83 in (27.5 cm)
Package 1 width	11.81 in (30 cm)
Package 1 Length	11.81 in (30 cm)
Unit Type of Package 2	CAR
Number of Units in Package 2	1
Package 2 Weight	22.06 lb(US) (10.006 kg)
Package 2 Height	10.83 in (27.5 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	11.81 in (30 cm)
Unit Type of Package 3	P06
Number of Units in Package 3	8
Package 3 Weight	203.56 lb(US) (92.332 kg)
Package 3 Height	31.50 in (80 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
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
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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