

LC1F500L7

TeSys F contactor - 3P (3 NO) - AC-3 - ≤ 440 V 500 A - coil 208 V AC



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-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) 355 kW at 500 V AC 50/60 Hz (AC-3) 335 kW 660...690 V AC 50/60 Hz AC-3) 335 kW at 1000 V AC 50/60 Hz (AC-3) 147 kW 220...230 V AC 50/60 Hz AC-3) 80 kW 400 V AC 50/60 Hz AC-4)
[Uc] control circuit voltage	208 V AC 40...400 Hz

Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	700 A (at 40 °C)
Rated breaking capacity	4000 A conforming to 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
Mounting support	Plate
Standards	JIS C8201-4-1 IEC 60947-4-1 EN 60947-4-1 EN 60947-1 IEC 60947-1

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Product certifications	RINA DNV UL ABS CCC BV RMRoS CB LROS (Lloyds register of shipping)
Connections - terminals	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 without 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)flexible with cable end Control circuit screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²)solid without cable end Control circuit screw clamp terminals 2 0.00...0.01 in ² (1...4 mm ²)solid without cable end Power circuit: bar 2 cable(s) - busbar cross section: 40 x 5 mm Power circuit: lugs-ring terminals 2 cable(s) 240 mm ² Power circuit bolted connection
Tightening torque	Control circuit: 1.2 N.m Power circuit 309.78 lbf.in (35 N.m)
Control circuit voltage limits	Operational 0.85...1.1 Uc 40...400 Hz 131 °F (55 °C)) Drop-out 0.3...0.5 Uc 40...400 Hz 131 °F (55 °C))
Inrush power in VA	1100 VA 40...400 Hz cos phi 0.9 (at 20 °C)
Hold-in power consumption in VA	18 VA 40...400 Hz cos phi 0.9 (at 20 °C)
Heat dissipation	18 W
Operating time	40...65 ms closing 100...170 ms opening
Mechanical durability	10 Mcycles
Maximum operating rate	2400 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...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)
Height	9.37 in (238 mm)
Width	9.17 in (233 mm)
Maximum Depth	9.13 in (232 mm)
Net Weight	25.02 lb(US) (11.35 kg)

Ordering and shipping details

Category	22336 - CTR,F-LINE,AC,OPEN,NONREV
Discount Schedule	I12
GTIN	03389110227055
Nbr. of units in pkg.	1
Package weight(Lbs)	1 lb(US) (0.45 kg)
Returnability	Yes
Country of origin	CZ

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	10.63 in (27 cm)
Package 1 width	11.02 in (28 cm)
Package 1 Length	13.39 in (34 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
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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