Product data sheet

Specification





TeSys F contactor - 3P (3 NO) - AC-3 - <= 440 V 500 A - coil 415 V AC

LC1F500N7

! Discontinued on: Jun 15, 2023

① Discontinued

Product availability: Stock - Normally stocked in distribution facility

Main

Range	TeSys	
Range of Product	TeSys F	
Product or Component Type	Contactor	
Device short name	LC1F	
contactor application	Resistive load Motor control	
Utilisation category	AC-3 AC-4 AC-1	
poles description	3P	
[Ue] rated operational voltage	<= 1000 V AC 50/60 Hz <= 460 V DC	
[Uc] control circuit voltage	415 V AC 40400 Hz	
[le] rated operational current	700 A (at <104 °F (40 °C)) at <= 440 V AC AC-1 500 A (at <131 °F (55 °C)) at <= 440 V AC AC-3	

Complementary

[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	700 A (at 104 °F (40 °C))
Rated breaking capacity	4000 A conforming to IEC 60947-4-1
[lcw] 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 at <= 440 V 800 A gG at <= 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
Overvoltage category	III
power pole contact composition	3 NO

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Motor power kW	250 kW at 380400 V AC 50/60 Hz (AC-3) 280 kW at 415 V AC 50/60 Hz (AC-3) 295 kW at 440 V AC 50/60 Hz (AC-3) 355 kW at 500 V AC 50/60 Hz (AC-3) 335 kW at 660690 V AC 50/60 Hz (AC-3) 335 kW at 1000 V AC 50/60 Hz (AC-3) 147 kW at 220230 V AC 50/60 Hz (AC-3)
	80 kW at 400 V AC 50/60 Hz (AC-4)
Control circuit voltage limits	Operational 0.851.1 Uc 40400 Hz 131 °F (55 °C)) Drop-out 0.30.5 Uc 40400 Hz 131 °F (55 °C))
Mechanical durability	10 Mcycles
Inrush power in VA	1100 VA, 40400 Hz 0.9 68 °F (20 °C))
Hold-in power consumption in VA	18 VA, 40400 Hz 0.9 68 °F (20 °C))
Maximum operating rate	2400 cyc/h 131 °F (55 °C)
Operating time	4065 ms closing 100170 ms opening
Connections - terminals	Control circuit screw clamp terminals 1 0.0020.006 in² (14 mm²)flexible without cable end Control circuit screw clamp terminals 2 0.0020.006 in² (14 mm²)flexible without cable end Control circuit screw clamp terminals 1 0.0020.006 in² (14 mm²)flexible with cable end Control circuit screw clamp terminals 2 0.0020.004 in² (12.5 mm²)flexible with cable end Control circuit screw clamp terminals 1 0.0020.006 in² (14 mm²)solid without cable end Control circuit screw clamp terminals 2 0.0020.006 in² (14 mm²)solid without cable end Control circuit screw clamp terminals 2 0.0020.006 in² (14 mm²)solid without cable end Power circuit bar 2 40 x 5 mm Power circuit lugs-ring terminals 2 0.4 in² (240 mm²) Power circuit bolted connection
Tightening torque	Control circuit 10.6 lbf.in (1.2 N.m) Power circuit 309.8 lbf.in (35 N.m)
Mounting Support	Plate
Heat dissipation	18 W
Standards	EN 60947-4-1 IEC 60947-1 IEC 60947-4-1 JIS C8201-4-1 EN 60947-1
Product Certifications	CCC BV RINA RMRoS LROS (Lloyds register of shipping) DNV UL ABS CB UKCA
Compatibility code	LC1F
Control circuit type	AC 40400 Hz
Environment	
IP degree of protection	IP20 front face with shrouds IEC 60529 IP20 front face with shrouds VDE 0106
Protective treatment	TH
Protective treatment Ambient Air Temperature for Operation	TH 23131 °F (-555 °C)

Permissible ambient air	-40158 °F (-4070 °C)
temperature around the device Height	9.4 in (238 mm)
Width	9.2 in (233 mm)
Depth	9.1 in (232 mm)
Operating altitude	9842.52 ft (3000 m) without derating
Net Weight	25.02 lb(US) (11.35 kg)

Ordering and shipping details

Category	US10I1222336
Discount Schedule	0112
GTIN	3389110227079
Returnability	Yes
Country of origin	CZ

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	10.6 in (27.0 cm)
Package 1 Width	11.8 in (30.0 cm)
Package 1 Length	11.6 in (29.5 cm)
Package 1 Weight	26.43 lb(US) (11.99 kg)

Contractual warranty

Warranty 18 months

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Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

Yes

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information.
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Circularity Profile	End of Life Information
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