

# Product data sheet

Specifications



## TeSys F contactor - 3P (3 NO) - AC-3 - <= 440 V 500 A - coil 380 V AC

LC1F500Q7

⚠ Discontinued on: Jun 15, 2023

⚠ Discontinued

Product availability: Non-Stock - Not 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-1 AC-3 AC-4
Poles Description	3P
[Ue] Rated Operational Voltage	<= 1000 V AC 50/60 Hz <= 460 V DC
[Uc] Control Circuit Voltage	380 V AC 40...400 Hz
[Ie] 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
[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 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.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Motor Power Kw	250 kW at 380...400 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 660...690 V AC 50/60 Hz (AC-3) 335 kW at 1000 V AC 50/60 Hz (AC-3) 147 kW at 220...230 V AC 50/60 Hz (AC-3) 80 kW at 400 V AC 50/60 Hz (AC-4)
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))
Mechanical Durability	10 Mcycles
Inrush Power In Va	1100 VA, 40...400 Hz 0.9 68 °F (20 °C))
Hold-In Power Consumption In Va	18 VA, 40...400 Hz 0.9 68 °F (20 °C))
Maximum Operating Rate	2400 cyc/h 131 °F (55 °C)
Operating Time	40...65 ms closing 100...170 ms opening
Connections - Terminals	Control circuit screw clamp terminals 1 0.00...0.01 in² (1...4 mm²)flexible without cable end Control circuit screw clamp terminals 2 0.00...0.01 in² (1...4 mm²)flexible without cable end Control circuit screw clamp terminals 1 0.00...0.01 in² (1...4 mm²)flexible with cable end Control circuit screw clamp terminals 2 0.00...0.00 in² (1...2.5 mm²)flexible with cable end Control circuit screw clamp terminals 1 0.00...0.01 in² (1...4 mm²)solid without cable end Control circuit screw clamp terminals 2 0.00...0.01 in² (1...4 mm²)solid without cable end Power circuit bar 2 40 x 5 mm Power circuit lugs-ring terminals 2 0.37 in² (240 mm²) Power circuit bolted connection
Tightening Torque	Control circuit 10.62 lbf.in (1.2 N.m) Power circuit 309.78 lbf.in (35 N.m)
Mounting Support	Plate
Heat Dissipation	18 W
Standards	EN 60947-4-1 IEC 60947-4-1 IEC 60947-1 JIS C8201-4-1 EN 60947-1
Product Certifications	DNV CB RMRoS RINA CCC LROS (Lloyds register of shipping) BV ABS UL UKCA
Compatibility Code	LC1F
Control Circuit Type	AC 40...400 Hz

## 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)
Depth	9.13 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	0I12
Gtin	3389110227086
Returnability	No
Country Of Origin	CZ

## Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	10.63 in (27.0 cm)
Package 1 Width	11.61 in (29.5 cm)
Package 1 Length	11.61 in (29.5 cm)
Package 1 Weight	26.07 lb(US) (11.825 kg)

## Contractual warranty

Warranty	18 months
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Sustainability



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Transparency   RoHS/REACH

Well-being performance

 Mercury Free

 RoHS Exemption Information   [Yes](#)

Certifications & Standards

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