

# Product data sheet

Specifications



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

LC1F500Q7

! To be discontinued on: 31 December 2023

! To be end-of-service on: 31 December 2023

! To be discontinued

**Price\* : 4,970.00 USD**

### 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-1 AC-3 AC-4
Poles description	3P
Power pole contact composition	3 NO
[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 500 V AC 50/60 Hz AC-3) 335 kW 660...690 V AC 50/60 Hz AC-3) 335 kW 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	380 V AC 40...400 Hz

### Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	700 A 104 °F (40 °C)
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

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

<b>Average impedance</b>	0.18 mOhm - lth 700 A 50 Hz
<b>[Ui] rated insulation voltage</b>	1000 V IEC 60947-4-1 1500 V VDE 0110 group C
<b>Power dissipation per pole</b>	88 W AC-1 45 W AC-3
<b>Mounting Support</b>	Plate
<b>Standards</b>	EN 60947-4-1 IEC 60947-4-1 IEC 60947-1 JIS C8201-4-1 EN 60947-1
<b>Product certifications</b>	DNV CB RMRoS RINA CCC LROS (Lloyds register of shipping) BV ABS UL UKCA
<b>Connections - terminals</b>	Control circuit screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible without cable end Control circuit screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible without cable end Control circuit screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible with cable end Control circuit screw clamp terminals 2 0.00...0.00 in <sup>2</sup> (1...2.5 mm <sup>2</sup> )flexible with cable end Control circuit screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )solid without cable end Control circuit screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )solid without cable end Power circuit bar 2 40 x 5 mm Power circuit lugs-ring terminals 2 0.37 in <sup>2</sup> (240 mm <sup>2</sup> ) Power circuit bolted connection
<b>Tightening torque</b>	Control circuit 10.62 lbf.in (1.2 N.m) Power circuit 309.78 lbf.in (35 N.m)
<b>Control circuit voltage limits</b>	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))
<b>Inrush power in VA</b>	1100 VA 40...400 Hz 0.9 68 °F (20 °C))
<b>Hold-in power consumption in VA</b>	18 VA 40...400 Hz 0.9 68 °F (20 °C))
<b>Heat dissipation</b>	18 W
<b>Operating time</b>	40...65 ms closing 100...170 ms opening
<b>Mechanical durability</b>	10 Mcycles
<b>Maximum operating rate</b>	2400 cyc/h 131 °F (55 °C)
<b>Compatibility code</b>	LC1F
<b>Environment</b>	
<b>IP degree of protection</b>	IP20 front face with shrouds IEC 60529 IP20 front face with shrouds VDE 0106
<b>Protective treatment</b>	TH
<b>Ambient Air Temperature for Operation</b>	23...131 °F (-5...55 °C)
<b>Ambient Air Temperature for Storage</b>	-76...176 °F (-60...80 °C)
<b>Permissible ambient air temperature around the device</b>	-40...158 °F (-40...70 °C)
<b>Operating altitude</b>	9842.52 ft (3000 m) without derating
<b>Height</b>	9.37 in (238 mm)
<b>Width</b>	9.17 in (233 mm)
<b>Depth</b>	9.13 in (232 mm)
<b>Net weight</b>	25.02 lb(US) (11.35 kg)

## Ordering and shipping details

Category	22336 - CTR,F-LINE,AC,OPEN,NONREV
Discount Schedule	I12
GTIN	3389110227086
Nbr. of units in pkg.	1
Package weight(Lbs)	26.07 lb(US) (11.825 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	11.61 in (29.5 cm)
Package 1 Length	11.61 in (29.5 cm)

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
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>
Circularity Profile	<a href="#">End of Life Information</a>
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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