# Product data sheet

Specifications



## TeSys F contactor - 3P (3 NO) -AC-3 - <= 440 V 500 A - coil 400 V DC

LC1F500VD

#### ① Discontinued

#### Main

Range	TeSys
Range Of Product	TeSys F
Product Or Component Type	Contactor
Device Short Name	LC1F
Contactor Application	Motor control Resistive load
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	400 V DC
[le] Rated Operational Current	700 A (at <40 °C) at <= 440 V AC AC-1 500 A (at <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 40 °C)
Rated Breaking Capacity	4000 A conforming to IEC 60947-4-1
[Icw] Rated Short-Time Withstand Current	4200 A 40 °C - 10 s 3200 A 40 °C - 30 s 2400 A 40 °C - 1 min 1500 A 40 °C - 3 min 1200 A 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 conforming to IEC 60947-4-1 1500 V conforming to VDE 0110 group C
Power Dissipation Per Pole	88 W AC-1 45 W AC-3
Overvoltage Category	Ш
Power Pole Contact Composition	3 NO

Power Pole Contact Composition 3 NO

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 (at 55 °C) Drop-out: 0.20.35 Uc (at 55 °C)
Mechanical Durability	10 Mcycles
Inrush Power In W	1100 W (at 20 °C)
Hold-In Power Consumption In W	6 W at 20 °C
Maximum Operating Rate	2400 cyc/h 55 °C
Operating Time	5060 ms closing 4560 ms opening
Connections - Terminals	Control circuit: screw clamp terminals 1 cable(s) 14 mm <sup>2</sup> flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm <sup>2</sup> flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm <sup>2</sup> flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm <sup>2</sup> flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm <sup>2</sup> solid without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm <sup>2</sup> solid without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm <sup>2</sup> 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 <sup>2</sup> Power circuit: bolted connection
Tightening Torque	Control circuit: 1.2 N.m Power circuit: 35 N.m
Mounting Support	Plate
Heat Dissipation	6 W
Standards	EN 60947-4-1 IEC 60947-1 EN 60947-1 JIS C8201-4-1
	IEC 60947-4-1
Product Certifications	DNV RMRoS UL
	BV
	LROS (Lloyds register of shipping) ABS
	RINA
	CB CCC
Compatibility Code	LC1F
Control Circuit Type	DC standard
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	ТН
Ambient Air Temperature For Operation	-555 °C
Ambient Air Temperature For Storage	-6080 °C
Permissible Ambient Air Temperature Around The Device	-4070 °C
	200

238 mm

233 mm

232 mm

Height

Width

Depth

Operating Altitude	3000 m without derating
Net Weight	11.35 kg
Packing Units	
Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Contractual warranty	

Warranty

18 months

### Sustainability

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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.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

#### Well-being performance



EQ

Rohs Exemption Information Yes

### **Certifications & Standards**

Eu Rohs Directive	Compliant
	EU RoHS Declaration
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