

# Product data sheet

Specifications



## TeSys F contactor - 3P (3 NO) - AC-3 - <= 440 V 150 A - coil 230V AC

LC1F150P7

⚠ To be discontinued on: Dec 31, 2024

⚠ To be discontinued

### 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-4 AC-3
Poles Description	3P
[Ue] Rated Operational Voltage	<= 690 V AC 50/60 Hz <= 460 V DC
[Uc] Control Circuit Voltage	230 V AC 40...400 Hz
[Ie] Rated Operational Current	250 A (at <40 °C) at <= 440 V AC-1 150 A (at <55 °C) at <= 440 V AC-3

### Complementary

[Uimp] Rated Impulse Withstand Voltage	8 kV
[Ith] Conventional Free Air Thermal Current	250 A (at 40 °C)
Rated Breaking Capacity	1200 A conforming to IEC 60947-4-1
[Icw] Rated Short-Time Withstand Current	1200 A 40 °C - 10 s 700 A 40 °C - 30 s 600 A 40 °C - 1 min 450 A 40 °C - 3 min 350 A 40 °C - 10 min
Associated Fuse Rating	160 A aM at <= 440 V 250 A gG at <= 440 V
Average Impedance	0.35 mOhm - Ith 250 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	22 W AC-1 8 W AC-3
Overvoltage Category	III
Power Pole Contact Composition	3 NO

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	75 kW at 380...400 V AC 50/60 Hz (AC-3) 80 kW at 415 V AC 50/60 Hz (AC-3) 80 kW at 440 V AC 50/60 Hz (AC-3) 90 kW at 500 V AC 50/60 Hz (AC-3) 100 kW at 660...690 V AC 50/60 Hz (AC-3) 40 kW at 220...230 V AC 50/60 Hz (AC-3) 22 kW at 400 V AC 50/60 Hz (AC-4)
Control Circuit Voltage Limits	Operational: 0.85...1.1 Uc 40...400 Hz (at 55 °C) Drop-out: 0.2...0.55 Uc 40...400 Hz (at 55 °C)
Mechanical Durability	10 Mcycles
Inrush Power In Va	770 VA, 40...400 Hz cos phi 0.9 (at 20 °C)
Hold-In Power Consumption In Va	8.1 VA, 40...400 Hz cos phi 0.9 (at 20 °C)
Maximum Operating Rate	2400 cyc/h 55 °C
Operating Time	35 ms closing (at Uc) 130 ms opening (at Uc)
Connections - Terminals	Control circuit: screw clamp terminals 1 cable(s) 1...4 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm²flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm²solid without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm²solid without cable end Power circuit: bar 2 cable(s) - busbar cross section: 25 x 3 mm Power circuit: lugs-ring terminals 1 cable(s) 120 mm² Power circuit: connector 1 cable(s) 120 mm² Power circuit: bolted connection
Tightening Torque	Control circuit: 1.2 N.m Power circuit: 18 N.m
Mounting Support	Plate
Heat Dissipation	5.9...7.2 W
Standards	IEC 60947-4-1 IEC 60947-1 JIS C8201-4-1 EN 60947-1 EN 60947-4-1
Product Certifications	RINA LROS (Lloyds register of shipping) UL DNV BV RMRoS CCC ABS CB UKCA
Compatibility Code	LC1F
Control Circuit Type	AC at 40...400 Hz

## Environment

Ip Degree Of Protection	IP2X front face with shrouds conforming to IEC 60529 IP2X front face with shrouds conforming to VDE 0106
Protective Treatment	TH
Ambient Air Temperature For Operation	-40...60 °C
Ambient Air Temperature For Storage	-60...80 °C
Permissible Ambient Air Temperature Around The Device	60...70 °C at Uc
Height	170 mm
Width	163.5 mm

Depth	171 mm
Operating Altitude	3000 m without derating
Net Weight	3.43 kg

## Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	21.500 cm
Package 1 Width	20.000 cm
Package 1 Length	25.000 cm
Package 1 Weight	4.065 kg
Unit Type Of Package 2	P06
Number Of Units In Package 2	18
Package 2 Height	75.000 cm
Package 2 Width	60.000 cm
Package 2 Length	80.000 cm
Package 2 Weight	81.670 kg

## Contractual warranty

Warranty	18 months
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## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**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	<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>