

# Product data sheet

Specifications



## TeSys F reversing contactor - 3P(3 NO) AC-3 <= 440 V 150 A 110 V AC 40...400 Hz

LC2F150F7

⚠ Discontinued on: Oct 10, 2020

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### Main

Range	TeSys
Product Name	TeSys F
Product Or Component Type	Reversing contactor
Device Short Name	LC2F
Contactor Application	Resistive load Motor control
Utilisation Category	AC-3 AC-1
Device Presentation	Preassembled with reversing power busbar
Poles Description	3P
Power Pole Contact Composition	3 NO
[Ue] Rated Operational Voltage	<= 1000 V AC 50/60 Hz <= 460 V DC
[Ie] Rated Operational Current	150 A (at <40 °C) at <= 440 V AC AC-3 250 A (at <40 °C) at <= 440 V AC AC-1
Motor Power Kw	65 kW at 1000 V AC 50/60 Hz 75 kW at 380...400 V AC 50/60 Hz 80 kW at 415 V AC 50/60 Hz 80 kW at 440 V AC 50/60 Hz 90 kW at 500 V AC 50/60 Hz 40 kW at 220...240 V AC 50/60 Hz 100 kW at 660...690 V AC 50/60 Hz
Control Circuit Type	AC at 40...400 Hz
[Uc] Control Circuit Voltage	110 V AC 40...400 Hz
[Uimp] Rated Impulse Withstand Voltage	8 kV
Overvoltage Category	III
[Ith] Conventional Free Air Thermal Current	250 A (at 40 °C)
Irms Rated Making Capacity	1500 A AC conforming to IEC 60947-4-1
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	125 A aM at <= 440 V 200 A gG at <= 440 V
Average Impedance	0.35 mOhm - Ith 250 A 50 Hz

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

[Ui] Rated Insulation Voltage	1000 V conforming to IEC 60947-4-1 1500 V conforming to VDE 0110 group C
Power Dissipation Per Pole	8 W AC-3
Interlocking Type	Mechanical
Mounting Support	Plate
Standards	EN 60947-4-1 IEC 60947-4-1 EN 60947-1 IEC 60947-1 JIS C8201-4-1
Product Certifications	CCC RINA ABS CB DNV UL LROS (Lloyds register of shipping) RMRoS CSA UKCA
Connections - Terminals	Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> solid without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> solid without cable end Power circuit: lugs-ring terminals 1 cable(s) 120 mm <sup>2</sup> Power circuit: connector 1 cable(s) 120 mm <sup>2</sup> Power circuit: bar 2 cable(s) - busbar cross section: 25 x 3 mm
Tightening Torque	Control circuit: 1.2 N.m Power circuit: 18 N.m
Operating Time	23...35 ms closing 5...15 ms opening
Mechanical Durability	10 Mcycles
Maximum Operating Rate	2400 cyc/h 55 °C

## Complementary

Control Circuit Voltage Limits	Operational: 0.85...1.1 Uc at 50/60 Hz (at <55 °C) Drop-out: 0.2...0.55 Uc at 50/60 Hz (at <55 °C)
Inrush Power In Va	550 VA 50 Hz cos phi 0.3 (at 20 °C) 660 VA 60 Hz cos phi 0.3 (at 20 °C)
Hold-In Power Consumption In Va	45 VA 50 Hz cos phi 0.3 (at 20 °C) 55 VA 60 Hz cos phi 0.3 (at 20 °C)
Heat Dissipation	12...16 W

## 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	TH
Ambient Air Temperature For Operation	-5...55 °C
Ambient Air Temperature For Storage	-60...80 °C
Permissible Ambient Air Temperature Around The Device	-40...70 °C
Operating Altitude	3000 m without derating

Mechanical Robustness	Vibrations contactor open: 2 Gn, 5...300 Hz Vibrations contactor closed: 6 Gn, 5...300 Hz Shocks contactor open: 9 Gn for 11 ms Shocks contactor closed: 15 Gn for 11 ms
Height	170 mm
Width	345 mm
Depth	171 mm
Net Weight	7.66 kg

## Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1

## 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

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

Circularity Profile

[End of Life Information](#)