

# Product datasheet

Specifications



## TeSys F contactor - 4P(4 NO) - AC-1 - <= 440 V 1000 A - without coil

LC1F6304

! To be discontinued on: Dec 31, 2023

! To be discontinued

### Main

Range	TeSys
Product Name	TeSys F
Product Or Component Type	Contactors
Device Short Name	LC1F
Contactors Application	Resistive load
Utilisation Category	AC-1
Poles Description	4P
Power Pole Contact Composition	4 NO
[Ue] Rated Operational Voltage	<= 1000 V AC 50/60 Hz <= 460 V DC
[Ie] Rated Operational Current	1000 A (at <40 °C) at <= 440 V AC AC-1

### Complementary

[Uc] Control Circuit Voltage	48...1000 V AC 40...400 Hz with LX1/LX9 coil 48...440 V DC with LX4 coil
[Uimp] Rated Impulse Withstand Voltage	8 kV
Overvoltage Category	III
[Ith] Conventional Free Air Thermal Current	1000 A (at 40 °C) 1250 A
Irms Rated Making Capacity	6300 A AC conforming to IEC 60947-4-1
Rated Breaking Capacity	5040 A conforming to IEC 60947-4-1
[Icw] Rated Short-Time Withstand Current	5050 A 40 °C - 10 s 4400 A 40 °C - 30 s 3400 A 40 °C - 1 min 2200 A 40 °C - 3 min 1600 A 40 °C - 10 min
Associated Fuse Rating	630 A aM at <= 440 V 1000 A gG at <= 440 V
Average Impedance	0.12 mOhm - Ith 1000 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	120 W AC-1
Control Circuit Voltage Limits	Operational: 0.85...1.1 Uc AC 40...400 Hz with LX1/LX9 coil Drop-out: 0.25...0.5 Uc AC 40...400 Hz with LX1/LX9 coil Operational: 0.85...1.1 Uc DC with LX4 coil Drop-out: 0.2...0.35 Uc DC with LX4 coil

<b>Heat Dissipation</b>	20 W
<b>Operating Time</b>	40...80 ms closing for with LX1/LX9 coil 100...200 ms opening for with LX1/LX9 coil 60...70 ms closing for with LX4 coil 40...50 ms opening for with LX4 coil
<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>	ABS UL RINA DNV CSA CB LROS (Lloyds register of shipping) BV RMRoS UKCA
<b>Connections - Terminals</b>	Power circuit: bar 2 cable(s) - busbar cross section: 60 x 5 mm Power circuit: bolted connection 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 with 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> solid without cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> Control circuit: screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup>
<b>Tightening Torque</b>	Power circuit: 58 N.m Control circuit: 1.2 N.m
<b>Mechanical Durability</b>	5 Mcycles
<b>Inrush Power In Va</b>	1500...1730 VA, 40...400 Hz cos phi 0.9 (at 20 °C)with LX1/LX9 coil 1420...1920 VA (at 20 °C)with LX4 coil
<b>Hold-In Power Consumption In Va</b>	20...25 VA, 40...400 Hz cos phi 0.9 (at 20 °C)with LX1/LX9 coil 6.5...12.5 VA (at 20 °C)with LX4 coil
<b>Maximum Operating Rate</b>	1200 cyc/h 55 °C
<b>Compatibility Code</b>	LC1F

## Environment

<b>Ip Degree Of Protection</b>	IP20 front face with shrouds conforming to IEC 60529 IP20 front face with shrouds conforming to VDE 0106
<b>Protective Treatment</b>	TH
<b>Ambient Air Temperature For Operation</b>	-5...55 °C
<b>Ambient Air Temperature For Storage</b>	-60...80 °C
<b>Permissible Ambient Air Temperature Around The Device</b>	-40...70 °C
<b>Operating Altitude</b>	3000 m without derating
<b>Mechanical Robustness</b>	Vibrations contactor open: 2 Gn, 5...300 Hz Vibrations contactor closed: 4 Gn, 5...300 Hz Shocks contactor open: 6 Gn for 1/2 sine wave (11 ms) Shocks contactor closed: 15 Gn for 1/2 sine wave (11 ms)
<b>Height</b>	304 mm
<b>Width</b>	389 mm
<b>Depth</b>	255 mm
<b>Net Weight</b>	21.5 kg

## Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	33.000 cm
Package 1 Width	52.000 cm
Package 1 Length	33.500 cm
Package 1 Weight	21.000 kg
Unit Type Of Package 2	P06
Number Of Units In Package 2	4
Package 2 Height	75.000 cm
Package 2 Width	60.000 cm
Package 2 Length	80.000 cm
Package 2 Weight	92.500 kg

## Contractual warranty

Warranty	12 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.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

## Well-being performance

Mercury Free

Rohs Exemption Information Yes

## Certifications & Standards

Reach Regulation [REACH Declaration](#)

Eu Rohs Directive Compliant with Exemptions

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](#)