

# Product datasheet

Specifications



## TeSys F contactor - 4P(4 NO) - AC-1 - <= 440 V 1600 A - without coil

LC1F7804

### Main

Range	TeSys
Product Name	TeSys F
Product Or Component Type	Contacteur
Device Short Name	LC1F
Contacteur 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	1600 A (at <40 °C) at <= 440 V AC AC-1

### Complementary

[Uc] Control Circuit Voltage	110...500 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	1600 A (at 40 °C)
Irms Rated Making Capacity	7800 A AC conforming to IEC 60947-4-1
Rated Breaking Capacity	6240 A conforming to IEC 60947-4-1
[Icw] Rated Short-Time Withstand Current	3000 A 40 °C - 3 min 6250 A 40 °C - 10 s 5600 A 40 °C - 30 s 4600 A 40 °C - 1 min 2200 A 40 °C - 10 min
Associated Fuse Rating	800 A aM at <= 440 V 1600 A gG at <= 440 V
Average Impedance	0.1 mOhm - Ith 1600 A 50 Hz
[Uij] Rated Insulation Voltage	1000 V conforming to IEC 60947-4-1 1500 V conforming to VDE 0110 group C
Power Dissipation Per Pole	250 W AC-1
Control Circuit Voltage Limits	Operational: 0.85...1.1 Uc AC 40...400 Hz with LX1/LX9 coil Drop-out: 0.2...0.4 Uc AC 40...400 Hz with LX1/LX9 coil Operational: 0.85...1.1 Uc DC with LX4 coil Drop-out: 0.2...0.4 Uc DC with LX4 coil
Heat Dissipation	22 W

<b>Operating Time</b>	40...80 ms closing for with LX1/LX9 coil 130...230 ms opening for with LX1/LX9 coil 70...80 ms closing for with LX4 coil 100...130 ms opening for with LX4 coil
<b>Mounting Support</b>	Plate
<b>Standards</b>	IEC 60947-1 IEC 60947-4-1 EN 60947-1 JIS C8201-4-1 EN 60947-4-1
<b>Product Certifications</b>	UL LROS (Lloyds register of shipping) RINA DNV CCC BV CB ABS UKCA
<b>Connections - Terminals</b>	Power circuit: bar 2 cable(s) - busbar cross section: 100 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>	1900...2300 VA, 40...400 Hz cos phi 0.9 (at 20 °C)with LX1/LX9 coil 1960...2420 VA (at 20 °C)with LX4 coil
<b>Hold-In Power Consumption In Va</b>	44...55 VA, 40...400 Hz cos phi 0.9 (at 20 °C)with LX1/LX9 coil 42...52 VA (at 20 °C)with LX4 coil
<b>Maximum Operating Rate</b>	600 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: 2.5 Gn, 5...300 Hz Vibrations contactor closed: 5.5 Gn, 5...300 Hz Shocks contactor open: 5 Gn for 1/2 sine wave (11 ms) Shocks contactor closed: 15 Gn for 1/2 sine wave (11 ms)
<b>Height</b>	434 mm
<b>Width</b>	862 mm
<b>Depth</b>	255 mm
<b>Net Weight</b>	48 kg

## Packing Units

<b>Unit Type Of Package 1</b>	PCE
<b>Number Of Units In Package 1</b>	1
<b>Package 1 Height</b>	41.0 cm
<b>Package 1 Width</b>	115.0 cm
<b>Package 1 Length</b>	44.0 cm
<b>Package 1 Weight</b>	47.5 kg
<b>Unit Type Of Package 2</b>	PAL
<b>Number Of Units In Package 2</b>	2
<b>Package 2 Height</b>	85.0 cm
<b>Package 2 Width</b>	120.0 cm
<b>Package 2 Length</b>	80.0 cm
<b>Package 2 Weight</b>	142.0 kg

## Contractual warranty

<b>Warranty</b>	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](#)