

# Product datasheet

Specifications



## TeSys F contactor - 4P (4 NO) - AC-1 - $\leq 440$ V 700 A - coil 230 V AC

LC1F5004P7

⚠ Discontinued on: 30 Jun 2024

⚠ Discontinued

### Main

Range	TeSys
Range of product	TeSys F
Product or component type	Contactor
Device short name	LC1F
Contactor application	Resistive load
Utilisation category	AC-1
Poles description	4P
[Ue] rated operational voltage	$\leq 1000$ V AC 50/60 Hz $\leq 460$ V DC
[Uc] control circuit voltage	230 V AC 40...400 Hz
[Ie] rated operational current	700 A (at $<40$ °C) at $\leq 440$ V AC AC-1

### 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 $\leq 440$ V 800 A gG at $\leq 440$ 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
Overvoltage category	III
power pole contact composition	4 NO
Control circuit voltage limits	Operational: 0.85...1.1 U <sub>c</sub> 40...400 Hz (at 55 °C) Drop-out: 0.3...0.5 U <sub>c</sub> 40...400 Hz (at 55 °C)
Mechanical durability	10 Mcycles
Inrush power in VA	1100 VA, 40...400 Hz cos phi 0.9 (at 20 °C)
Hold-in power consumption in VA	18 VA, 40...400 Hz cos phi 0.9 (at 20 °C)

Excluding VAT, FCA Jabal Ali & are subject to change – check with your local distributor.

<b>Maximum operating rate</b>	2400 cyc/h 55 °C
<b>Operating time</b>	40...65 ms closing 100...170 ms opening
<b>Connections - terminals</b>	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: 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
<b>Tightening torque</b>	Control circuit: 1.2 N.m Power circuit: 35 N.m
<b>Mounting support</b>	Plate
<b>Heat dissipation</b>	18 W
<b>Standards</b>	EN 60947-4-1 EN 60947-1 JIS C8201-4-1 IEC 60947-4-1 IEC 60947-1
<b>Product certifications</b>	DNV CB ABS UL RMRoS CCC RINA LROS (Lloyds register of shipping) BV UKCA
<b>Compatibility code</b>	LC1F
<b>Control circuit type</b>	AC at 40...400 Hz

## 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>Height</b>	238 mm
<b>Width</b>	288 mm
<b>Depth</b>	232 mm
<b>Operating altitude</b>	3000 m without derating
<b>Net weight</b>	12.95 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>	27.000 cm
<b>Package 1 Width</b>	30.000 cm
<b>Package 1 Length</b>	33.000 cm

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<b>Package 1 Weight</b>	14.057 kg
<b>Unit Type of Package 2</b>	P06
<b>Number of Units in Package 2</b>	8
<b>Package 2 Height</b>	75.000 cm
<b>Package 2 Width</b>	60.000 cm
<b>Package 2 Length</b>	80.000 cm
<b>Package 2 Weight</b>	120.956 kg

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## **Contractual warranty**

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<b>Warranty (in months)</b>	18
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## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



### Environmental footprint

Total lifecycle Carbon footprint	6 531 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	79 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	4 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	6 423 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	25 kg CO2 eq.
Environmental Disclosure	<a href="#">Product Environmental Profile</a>

## Use Better



### Materials and Substances

EU RoHS Directive	<a href="#">Compliant By Exemption</a>
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## Use Longer




### Lifetime extension

Repair	No
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## Use Again



### Repack and remanufacture

Recyclability potential, in %	95
End of life manual availability	<a href="#">End of Life Information</a>
Take-back	Nej
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins