

# Product datasheet

Specifications



## TeSys F contactor - 4P (4 NO) - AC-1 - $\leq 440$ V 200 A - coil 220 V AC

LC1F1154M7

⚠ Discontinued on: 13 Jan 2023

⚠ End-of-service on: 31 Mar 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	$\leq 690$ V AC 50/60 Hz $\leq 460$ V DC
[Uc] control circuit voltage	220 V AC 40...400 Hz
[Ie] rated operational current	200 A (at $<40$ °C) at $\leq 440$ V AC-1

## Complementary

[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	200 A (at 40 °C)
Rated breaking capacity	920 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	1100 A 40 °C - 10 s 640 A 40 °C - 30 s 520 A 40 °C - 1 min 400 A 40 °C - 3 min 320 A 40 °C - 10 min
Associated fuse rating	125 A aM at $\leq 440$ V 200 A gG at $\leq 440$ V
Average impedance	0.37 mOhm - Ith 200 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	15 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: 0.2...0.55 U <sub>c</sub> 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)

<b>Maximum operating rate</b>	2400 cyc/h 55 °C
<b>Operating time</b>	35 ms closing (at U <sub>c</sub> ) 130 ms opening (at U <sub>c</sub> )
<b>Connections - terminals</b>	Power circuit: bar 2 cable(s) - busbar cross section: 20 x 3 mm Power circuit: lugs-ring terminals 1 cable(s) 95 mm <sup>2</sup> Power circuit: connector 1 cable(s) 95 mm <sup>2</sup> 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: bolted connection
<b>Tightening torque</b>	Power circuit: 10 N.m Control circuit: 1.2 N.m
<b>Mounting support</b>	Plate
<b>Heat dissipation</b>	5.9...7.2 W
<b>Standards</b>	EN 60947-1 JIS C8201-4-1 EN 60947-4-1 IEC 60947-4-1 IEC 60947-1
<b>Product certifications</b>	RMRoS CB DNV LROS (Lloyds register of shipping) BV RINA UL ABS CCC UKCA
<b>Compatibility code</b>	LC1F
<b>Control circuit type</b>	AC at 40...400 Hz

## Environment

<b>IP degree of protection</b>	IP2X front face with shrouds conforming to IEC 60529 IP2X front face with shrouds conforming to VDE 0106
<b>Protective treatment</b>	TH
<b>Ambient air temperature for operation</b>	-40...60 °C
<b>Ambient air temperature for storage</b>	-60...80 °C
<b>Permissible ambient air temperature around the device</b>	60...70 °C at U <sub>c</sub>
<b>Height</b>	162 mm
<b>Width</b>	200.5 mm
<b>Depth</b>	171 mm
<b>Operating altitude</b>	3000 m without derating
<b>Net weight</b>	3.83 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>	22.000 cm
<b>Package 1 Width</b>	20.000 cm

<b>Package 1 Length</b>	27.000 cm
<b>Package 1 Weight</b>	4.630 kg
<b>Unit Type of Package 2</b>	P06
<b>Number of Units in Package 2</b>	18
<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>	91.840 kg

## **Contractual warranty**

<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	823 kg CO2 eq.
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Carbon footprint of the manufacturing phase [A1 to A3]	78 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.8 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.4 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	736 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	7 kg CO2 eq.

### Use Better



### Materials and Substances

SCIP Number	B2d4179a-eb65-40a3-a1ef-d9a33060486f
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### Use Longer



### Lifetime extension

Repair	No
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### Use Again



### Repack and remanufacture

Recyclability potential, in %	91
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins