

# Product datasheet

Specifications



## TeSys F contactor - 4P (4 NO) - AC-1 - $\leq 440$ V 315 A - coil 230 V AC

Local distributor code:

402846477

LC1F2254P7

⚠ Discontinued on: 11 Jan 2023

⚠ Discontinued

EAN Code: 3389118095632

## Main

Range	TeSys
Range of product	TeSys F
Product or component type	Contactors
Device short name	LC1F
Contactors application	Resistive load
Utilisation category	AC-1
Poles description	4P
[Ue] rated operational voltage	$\leq 460$ V DC $\leq 690$ V AC 50/60 Hz
[Uc] control circuit voltage	230 V AC 40...400 Hz
[Ie] rated operational current	315 A (at $<40$ °C) at $\leq 440$ V AC-1

## Complementary

[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	315 A (at 40 °C)
Rated breaking capacity	1800 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	1800 A 40 °C - 10 s 1000 A 40 °C - 30 s 850 A 40 °C - 1 min 560 A 40 °C - 3 min 440 A 40 °C - 10 min
Associated fuse rating	315 A gG at $\leq 440$ V 250 A aM at $\leq 440$ V
Average impedance	0.32 mOhm - Ith 315 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	32 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	1070 VA, 40...400 Hz cos phi 0.9 (at 20 °C)
Hold-in power consumption in VA	9.9 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 Uc) 130 ms opening (at Uc)
<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: 32 x 4 mm Power circuit: lugs-ring terminals 1 cable(s) 185 mm <sup>2</sup> Power circuit: connector 1 cable(s) 185 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>	8...9.8 W
<b>Standards</b>	EN 60947-4-1 IEC 60947-4-1 JIS C8201-4-1 IEC 60947-1 EN 60947-1
<b>Product certifications</b>	LROS (Lloyds register of shipping) UL ABS BV CCC CB RINA RMRoS DNV 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>	197 mm
<b>Width</b>	208.5 mm
<b>Depth</b>	181 mm
<b>Operating altitude</b>	3000 m without derating
<b>Net weight</b>	5.55 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>	21.5 cm
<b>Package 1 Width</b>	23.5 cm

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Package 1 Length	26.5 cm
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Package 1 Weight	6.18 kg
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## Contractual warranty

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Warranty	18 months
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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	1623
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## Use Better

### Materials and Substances

<a href="#">EU RoHS Directive</a>	Compliant with Exemptions
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SCIP Number	B2d4179a-eb65-40a3-a1ef-d9a33060486f
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REACH Regulation	<a href="#">REACH Declaration</a>
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PVC free	Yes
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## Use Again

### Repack and remanufacture

WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
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