

Product datasheet

Specifications



TeSys F contactor - 4P (4 NO) - AC-3 - ≤ 440 V 115 A - coil 24 V AC

LC1F1154B7

⚠ Discontinued on: Apr 13, 2023

⚠ Discontinued

Main

Range	TeSys
Range of product	TeSys F
Product or component type	Contactor
Device short name	LC1F
Contactor application	Resistive load Motor control
Utilisation category	AC-3 AC-1 AC-4
Poles description	4P
[Ue] rated operational voltage	≤ 690 V AC 50/60 Hz
[Uc] control circuit voltage	24 V AC 40...400 Hz
[Ie] rated operational current	200 A (at ≤ 40 °C) at ≤ 440 V AC-1 115 A (at ≤ 55 °C) at ≤ 440 V AC-3

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 ≤ 440 V 200 A gG at ≤ 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 5 W AC-3
Overvoltage category	III
power pole contact composition	4 NO

Motor power kW	55 kW at 380...400 V AC 50/60 Hz (AC-3) 59 kW at 415 V AC 50/60 Hz (AC-3) 59 kW at 440 V AC 50/60 Hz (AC-3) 75 kW at 500 V AC 50/60 Hz (AC-3) 80 kW at 660...690 V AC 50/60 Hz (AC-3) 30 kW at 220...230 V AC 50/60 Hz (AC-3) 18.5 kW at 400 V AC 50/60 Hz (AC-4)
Control circuit voltage limits	Operational: 0.85...1.1 Uc 40...400 Hz (at 55 °C) Drop-out: 0.2...0.55 Uc 40...400 Hz (at 55 °C)
Mechanical durability	10 Mcycles
Inrush power in VA	690...855 VA, 40...400 Hz cos phi 0.9 (at 20 °C)
Hold-in power consumption in VA	8.9...10.9 VA, 40...400 Hz cos phi 0.9 (at 20 °C)
Maximum operating rate	2400 cyc/h 55 °C
Operating time	35 ms closing (at Uc) 130 ms opening (at Uc)
Connections - terminals	Power circuit: bar 2 cable(s) - busbar cross section: 20 x 3 mm Power circuit: lugs-ring terminals 1 cable(s) 95 mm ² Power circuit: connector 1 cable(s) 95 mm ² Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm ² flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm ² flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² solid without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm ² solid without cable end Power circuit: bolted connection
Tightening torque	Power circuit: 10 N.m Control circuit: 1.2 N.m
Mounting support	Plate
Heat dissipation	5.9...7.2 W
Standards	IEC 60947-4-1 IEC 60947-1 EN 60947-4-1 EN 60947-1 JIS C8201-4-1
Product certifications	RINA BV RMRoS CB LROS (Lloyds register of shipping) DNV UL CCC ABS
Compatibility code	LC1F
Control circuit type	AC at 40...400 Hz

Environment

IP degree of protection	IP2X front face with shrouds conforming to IEC 60529 IP2X front face with shrouds conforming to VDE 0106
Protective treatment	TH
Ambient air temperature for operation	-40...60 °C
Ambient air temperature for storage	-60...80 °C
Permissible ambient air temperature around the device	60...70 °C at Uc
Height	162 mm
Width	163.3 mm
Depth	171 mm

Operating altitude	3000 m without derating
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Product weight	3.43 kg
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Packing Units

Unit Type of Package 1	PCE
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Number of Units in Package 1	1
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Package 1 Height	17.1 cm
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Package 1 Width	20.05 cm
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Package 1 Length	16.2 cm
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Package 1 Weight	3.85 kg
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Contractual warranty

Warranty (in months)	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

Environmental Disclosure

[Product Environmental Profile](#)

Use Better



Materials and Substances

SCIP Number

Fd9a8828-e2ec-48b0-8cbe-cb8a9fd887e0

EU RoHS Directive

[Compliant By Exemption](#)

Use Longer



Lifetime extension

Repair

No

Use Again



Repack and remanufacture

End of life manual availability

[End of Life Information](#)

WEEE Label



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