

Product data sheet

Specifications



TeSys F contactor - 2P (2 NO) - AC-1 - <= 440 V 500 A - coil 380 V AC

LC1F4002Q7

⚠ Discontinued on: 10 Oct 2020

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Main

Range	TeSys
Range of product	TeSys F
Product or component type	Contacteur
Device short name	LC1F
Contacteur application	Resistive load
Utilisation category	AC-1
Poles description	2P
[Ue] rated operational voltage	<= 1000 V AC 50/60 Hz <= 460 V DC
[Uc] control circuit voltage	380 V AC 40...400 Hz
[Ie] rated operational current	500 A (at <40 °C) at <= 440 V AC AC-1

Complementary

[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	500 A (at 40 °C)
Rated breaking capacity	3200 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	3600 A 40 °C - 10 s 2400 A 40 °C - 30 s 1700 A 40 °C - 1 min 1200 A 40 °C - 3 min 1000 A 40 °C - 10 min
Associated fuse rating	400 A aM at <= 440 V 500 A gG at <= 440 V
Average impedance	0.26 mOhm - Ith 500 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	65 W AC-1
Overvoltage category	III
power pole contact composition	2 NO
Control circuit voltage limits	Operational: 0.85...1.1 Uc 40...400 Hz (at 55 °C) Drop-out: 0.3...0.5 Uc 40...400 Hz (at 55 °C)
Mechanical durability	10 Mcycles
Inrush power in VA	1075 VA, 40...400 Hz cos phi 0.9 (at 20 °C)
Hold-in power consumption in VA	15 VA, 40...400 Hz cos phi 0.9 (at 20 °C)

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Maximum operating rate	2400 cyc/h 55 °C
Operating time	40...65 ms closing 100...170 ms opening
Connections - terminals	Control circuit: screw clamp terminals 1 cable(s) 1...4 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm²flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm²solid without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm²solid without cable end Power circuit: bar 2 cable(s) - busbar cross section: 30 x 5 mm Power circuit: lugs-ring terminals 2 cable(s) 150 mm² Power circuit: bolted connection
Tightening torque	Control circuit: 1.2 N.m Power circuit: 35 N.m
Mounting support	Plate
Heat dissipation	14 W
Standards	IEC 60947-4-1 IEC 60947-1 EN 60947-4-1 EN 60947-1 JIS C8201-4-1
Product certifications	DNV CB LROS (Lloyds register of shipping) RMRoS RINA ABS CCC UL BV
Compatibility code	LC1F
Control circuit type	AC at 40...400 Hz

Environment

IP degree of protection	IP20 front face with shrouds conforming to IEC 60529 IP20 front face with shrouds conforming to VDE 0106
Protective treatment	TH
Ambient air temperature for operation	-5...55 °C
Ambient air temperature for storage	-60...80 °C
Permissible ambient air temperature around the device	-40...70 °C
Height	206 mm
Width	213 mm
Depth	219 mm
Operating altitude	3000 m without derating
Product weight	8 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	24 cm
Package 1 Width	25 cm
Package 1 Length	31 cm

Package 1 Weight	7.2 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

EU RoHS Directive

[Compliant](#)

Use Longer



Lifetime extension

Repair

No

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