

Product datasheet

Specifications



TeSys F contactor - 3P (3 NO) - AC-3 - ≤ 440 V 400 A - coil 100-250V AC/100-380V DC

LC1F400KUE

⚠ Discontinued on: 20 Nov 2023

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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-1 AC-3 AC-4
Poles description	3P
[Ue] rated operational voltage	≤ 1000 V AC 50/60 Hz ≤ 460 V DC
[Uc] control circuit voltage	100...250 V AC 50/60 Hz 100...380 V DC
[Ie] rated operational current	500 A (at <40 °C) at ≤ 440 V AC-1 400 A (at <55 °C) at ≤ 440 V AC-3

Complementary

[Uimp] rated impulse withstand voltage	6 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	500 A gG at ≤ 440 V 400 A aM at ≤ 440 V
Average impedance	0.26 mOhm - Ith 500 A 50 Hz
[Ui] rated insulation voltage	380 V conforming to IEC 60947-4-1
Power dissipation per pole	65 W AC-1 42 W AC-3
Overvoltage category	III
power pole contact composition	3 NO
Irms rated making capacity	4000 A conforming to IEC 60947-4-1

Control circuit voltage limits	Operational: 85...275 V AC 50/60 Hz (at 55 °C) Operational: 85...418 V DC (at 55 °C) Drop-out: 0...60 V AC 50/60 Hz (at 55 °C) Drop-out: 0...45 V DC (at 55 °C)
Mechanical durability	10 Mcycles
Inrush power in VA	360...470 VA, 50/60 Hz cos phi 0.5 (at 20 °C)
Inrush power in W	410...450 W (at 20 °C)
Hold-in power consumption in W	2.5...4 W at 20 °C
Hold-in power consumption in VA	4.5...7 VA, 50/60 Hz cos phi 0.5 (at 20 °C)
Maximum operating rate	2400 cyc/h 55 °C
Operating time	40...80 ms closing 6...54 ms opening
Connections - terminals	Power circuit: bar 2 cable(s) - busbar cross section: 30 x 5 mm Power circuit: lugs-ring terminals 1 cable(s) 150 mm ² Control circuit: screw clamp terminals 1 cable(s) 0.2...2.5 mm ² solid Control circuit: screw clamp terminals 1 cable(s) 0.2...2.5 mm ² flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 0.25...2.5 mm ² flexible with cable end
Tightening torque	Power circuit: 35 N.m Control circuit: 0.6 N.m
Mounting support	Plate
Input compatibility	PLC 24 V DC conforming to IEC 61131-2 Type 2
Input voltage limits	0...5 V off-state for PLC input 11...30 V on-state for PLC input
Heat dissipation	2.2...5.5 W
Standards	EN/IEC 60947-1 EN/IEC 60947-4-1
Product certifications	CCC CB UKCA
Compatibility code	LC1F
Control circuit type	AC at 50/60 Hz electronic DC

Environment

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	-5...55 °C
Height	206 mm
Width	213 mm
Depth	219 mm
Operating altitude	3000 m without derating
Net weight	10.1 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1

Package 1 Height	21.9 cm
Package 1 Width	20.6 cm
Package 1 Length	21.3 cm
Package 1 Weight	11.1 kg

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 >](#)

Use Better



Materials and Substances

[EU RoHS Directive](#)

Compliant with Exemptions

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