

# Product datasheet

Specifications



## Contactors, TeSys F, 3P(3NO), AC-3 ≤440V 330A, 380V AC coil

LC1F330Q7

⚠ Discontinued on: 18 Jan 2023

⚠ End-of-service on: 31 Dec 2023

⚠ Discontinued

## Main

Range	TeSys
Range of product	TeSys F
Product or component type	Contactors
Device short name	LC1F
Contactors application	Motor control Resistive load
Utilisation category	AC-4 AC-1 AC-3
Poles description	3P
[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	400 A (at <40 °C) at ≤ 440 V AC AC-1 330 A (at <55 °C) at ≤ 440 V AC AC-3

## Complementary

[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	400 A (at 40 °C)
Rated breaking capacity	2640 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	2650 A 40 °C - 10 s 1800 A 40 °C - 30 s 1300 A 40 °C - 1 min 900 A 40 °C - 3 min 750 A 40 °C - 10 min
Associated fuse rating	400 A aM at ≤ 440 V 500 A gG at ≤ 440 V
Average impedance	0.28 mOhm - Ith 400 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	44 W AC-1 31 W AC-3
Overvoltage category	III
power pole contact composition	3 NO

<b>Motor power kW</b>	160 kW at 380...400 V AC 50/60 Hz (AC-3) 180 kW at 415 V AC 50/60 Hz (AC-3) 200 kW at 440 V AC 50/60 Hz (AC-3) 200 kW at 500 V AC 50/60 Hz (AC-3) 220 kW at 660...690 V AC 50/60 Hz (AC-3) 160 kW at 1000 V AC 50/60 Hz (AC-3) 100 kW at 220...230 V AC 50/60 Hz (AC-3) 59 kW at 400 V AC 50/60 Hz (AC-4)
<b>Control circuit voltage limits</b>	Operational: 0.85...1.1 U <sub>c</sub> 40...400 Hz (at 55 °C) Drop-out: 0.35...0.55 U <sub>c</sub> 40...400 Hz (at 55 °C)
<b>Mechanical durability</b>	10 Mcycles
<b>Inrush power in VA</b>	650 VA, 40...400 Hz cos phi 0.9 (at 20 °C)
<b>Hold-in power consumption in VA</b>	10 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>	40...65 ms closing 100...170 ms opening
<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: lugs-ring terminals 1 cable(s) 240 mm <sup>2</sup> Power circuit: bar 2 cable(s) - busbar cross section: 30 x 5 mm 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 W
<b>Standards</b>	EN 60947-4-1 IEC 60947-4-1 IEC 60947-1 JIS C8201-4-1 EN 60947-1
<b>Product certifications</b>	BV CCC UL CB RINA ABS RMRoS LROS (Lloyds register of shipping) 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>	206 mm
<b>Width</b>	213 mm

<b>Depth</b>	219 mm
<b>Operating altitude</b>	3000 m without derating
<b>Net weight</b>	8.6 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>	26.000 cm
<b>Package 1 Width</b>	24.000 cm
<b>Package 1 Length</b>	29.500 cm
<b>Package 1 Weight</b>	9.310 kg
<b>Unit Type of Package 2</b>	S04
<b>Number of Units in Package 2</b>	2
<b>Package 2 Height</b>	30 cm
<b>Package 2 Width</b>	40 cm
<b>Package 2 Length</b>	60 cm
<b>Package 2 Weight</b>	19.270 kg
<b>Unit Type of Package 3</b>	P06
<b>Number of Units in Package 3</b>	8
<b>Package 3 Height</b>	75.000 cm
<b>Package 3 Width</b>	80.000 cm
<b>Package 3 Length</b>	60.000 cm
<b>Package 3 Weight</b>	85.080 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 2461

Environmental Disclosure [Product Environmental Profile](#)

## Use Better



### Materials and Substances

Packaging made with recycled cardboard Yes

Packaging without single use plastic No

[EU RoHS Directive](#) Compliant with Exemptions

SCIP Number 975ba4d0-bc82-40e2-8faa-6f6819f63b0c

REACH Regulation [REACH Declaration](#)

## Use Longer



### Lifetime extension

Repair No

## Use Again



### Repack and remanufacture

End of life manual availability [End of Life Information](#)

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