Product datasheet

Specifications

TeSys F contactor - 3P (3 NO) - AC-3 - <= 440 V 330 A - coil 42 V AC

LC1F330D7

Discontinued on: 1 Nov 2020

Discontinued

Main

Range	TeSys
Range of product	TeSys F
Product or component type	Contactor
Device short name	LC1F
Contactor application	Motor control Resistive load
Utilisation category	AC-3 AC-1
Poles description	3P
[Ue] rated operational voltage	<= 1000 V AC 50/60 Hz <= 460 V DC
[Uc] control circuit voltage	42 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

Motor power kW	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)
Control circuit voltage limits	Operational: 0.85...1.1 Uc 40...400 Hz (at 55 °C) Drop-out: 0.35...0.55 Uc 40...400 Hz (at 55 °C)
Mechanical durability	10 Mcycles
Inrush power in VA	650 VA, 40...400 Hz cos phi 0.9 (at 20 °C)
Hold-in power consumption in VA	10 VA, 40...400 Hz cos phi 0.9 (at 20 °C)
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 mm^2flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1…4 mm^2flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 1…4 mm^2flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1…2.5 mm^2flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 1…4 mm^2solid without cable end Control circuit: screw clamp terminals 2 cable(s) 1…4 mm^2solid without cable end Power circuit: lugs-ring terminals 1 cable(s) 240 mm^2 Power circuit: bar 2 cable(s) - busbar cross section: 30 x 5 mm
Tightening torque	Control circuit: 1.2 N.m Power circuit: 35 N.m
Mounting support	Plate
Heat dissipation	8 W
Standards	JIS C8201-4-1 EN 60947-4-1 IEC 60947-4-1 EN 60947-1 IEC 60947-1
Product certifications	RMRoS RINA LROS (Lloyds register of shipping) BV DNV CB UL ABS CCC
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
Net weight	8.6 kg

Packing Units

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

Contractual warranty

Warranty (in months)	18

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 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