Product datasheet

Specifications



TeSys F contactor - 3P (3 NO) - AC-3 - <= 440 V 400 A - coil 415 V AC

Local distributor code:

402854524 LC1F400N7

Discontinued on: 11 Jan 2023

Discontinued

EAN Code: 3389110226973

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-4 AC-1
Poles description	3P
[Ue] rated operational voltage	<= 1000 V AC 50/60 Hz <= 460 V DC
[Uc] control circuit voltage	415 V AC 40...400 Hz
[Ie] rated operational current	500 A (at <40 °C) at <= 440 V AC AC-1 400 A (at <55 °C) at <= 440 V AC AC-3

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 42 W AC-3
Overvoltage category	III
power pole contact composition	3 NO

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

Motor power kW	75 kW at 400 V AC 50/60 Hz (AC-4) 200 kW at 380...400 V AC 50/60 Hz (AC-3) 220 kW at 415 V AC 50/60 Hz (AC-3) 250 kW at 440 V AC 50/60 Hz (AC-3) 257 kW at 500 V AC 50/60 Hz (AC-3) 280 kW at 660...690 V AC 50/60 Hz (AC-3) 185 kW at 1000 V AC 50/60 Hz (AC-3) 110 kW at 220...230 V AC 50/60 Hz (AC-3)
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)
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: bar 2 cable(s) - busbar cross section: 30 x 5 mm Power circuit: lugs-ring terminals 2 cable(s) 150 mm^2 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 EN 60947-4-1 IEC 60947-1 JIS C8201-4-1 EN 60947-1
Product certifications	UL RINA BV RMRoS DNV CCC ABS LROS (Lloyds register of shipping) CB UKCA
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	9.1 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	25.000 cm
Package 1 Width	24.000 cm
Package 1 Length	30.000 cm
Package 1 Weight	9.310 kg
Unit Type of Package 2	P06
Number of Units in Package 2	15
Package 2 Height	75.000 cm
Package 2 Width	80.000 cm
Package 2 Length	60.000 cm
Package 2 Weight	147.650 kg

Logistical informations

Country of origin	CZ

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

Total lifecycle Carbon footprint	**3 555 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**55 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**3 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**3 479 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**17 kg CO2 eq.**
Environmental Disclosure	**Product Environmental Profile**

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**No**
SCIP Number	**975ba4d0-bc82-40e2-8faa-6f6819f63b0c**
EU RoHS Directive	**Compliant By Exemption**
REACh Regulation	**Reference contains Substances of Very High Concern above the threshold**

Use Again

Repack and remanufacture

Recyclability potential, in %	**95**
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**