

Product data sheet

Specifications



TeSys F contactor - 3P (3 NO) - AC-3 - <= 440 V 400 A - coil 265...277 V AC

LC1F400W7

❗ Discontinued

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
Poles Description	3P
[Ue] Rated Operational Voltage	<= 1000 V AC 50/60 Hz <= 460 V DC
[Uc] Control Circuit Voltage	265...277 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	200 kW at 380...400 V AC 50/60 Hz 220 kW at 415 V AC 50/60 Hz 250 kW at 440 V AC 50/60 Hz 257 kW at 500 V AC 50/60 Hz 280 kW at 660...690 V AC 50/60 Hz 185 kW at 1000 V AC 50/60 Hz 110 kW at 220...230 V AC 50/60 Hz
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)
Inrush Power In W	750 W (at 20 °C)
Hold-In Power Consumption In W	5 W 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 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
Tightening Torque	Control circuit: 1.2 N.m Power circuit: 35 N.m
Mounting Support	Plate
Heat Dissipation	14 W
Standards	EN 60947-1 IEC 60947-1 EN 60947-4-1 IEC 60947-4-1 JIS C8201-4-1
Product Certifications	LROS (Lloyds register of shipping) CB DNV RINA CCC ABS UL RMRoS 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
Net Weight	9.1 kg

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1

Contractual warranty

Warranty	18 months
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Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

Well-being performance

✓ Mercury Free

✓ Rohs Exemption Information [Yes](#)

Certifications & Standards

Eu Rohs Directive Compliant
[EU RoHS Declaration](#)

China Rohs Regulation [China RoHS declaration](#)
Product out of China RoHS scope. Substance declaration for your information

Environmental Disclosure [Product Environmental Profile](#)