

Product datasheet

Specifications



TeSys F contactor - 3P (3 NO) - AC-3 - <= 440 V 800 A - coil 100-250V AC

LC1F800KUE

⚠ Discontinued on: 31 Dec 2023

⚠ End-of-service on: 31 Mar 2024

⚠ 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 AC-4
Poles description	3P
[Ue] rated operational voltage	<= 1000 V AC 50/60 Hz
[Uc] control circuit voltage	100...250 V AC 50/60 Hz
[Ie] rated operational current	1000 A (at <40 °C) at <= 440 V AC-1 800 A (at <55 °C) at <= 440 V AC-3

Complementary

[Uimp] rated impulse withstand voltage	6 kV
[Ith] conventional free air thermal current	1000 A (at 40 °C)
Rated breaking capacity	6400 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	3000 A 40 °C - 3 min 6250 A 40 °C - 10 s 5600 A 40 °C - 30 s 4600 A 40 °C - 1 min 2200 A 40 °C - 10 min
Associated fuse rating	1000 A gG at <= 440 V 800 A aM at <= 440 V
Average impedance	0.12 mOhm - Ith 1000 A 50 Hz
[Ui] rated insulation voltage	380 V conforming to IEC 60947-4-1
Power dissipation per pole	120 W AC-1 77 W AC-3
Overvoltage category	III
power pole contact composition	3 NO
Irms rated making capacity	8000 A conforming to IEC 60947-4-1
Control circuit voltage limits	Operational: 85...275 V AC 50/60 Hz (at 55 °C) Drop-out: 0...60 V AC 50/60 Hz (at 55 °C)

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

Mechanical durability	50000 cycles
Inrush power in VA	460...730 VA, 50/60 Hz cos phi 0.5 (at 20 °C)
Inrush power in W	500...680 W (at 20 °C)
Hold-in power consumption in W	4...5.5 W at 20 °C
Hold-in power consumption in VA	7...10 VA, 50/60 Hz cos phi 0.5 (at 20 °C)
Maximum operating rate	600 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: 60 x 5 mm Control circuit: screw clamp terminals 1 cable(s) 0.2...2.5 mm²solid Control circuit: screw clamp terminals 1 cable(s) 0.2...2.5 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 0.25...2.5 mm²flexible with cable end Power circuit: bolted connection
Tightening torque	Power circuit: 58 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

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	304 mm
Width	309 mm
Depth	255 mm
Operating altitude	3000 m without derating
Net weight	19.75 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	25.5 cm
Package 1 Width	30.4 cm
Package 1 Length	30.9 cm

Package 1 Weight

20.75 kg



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

End of life manual availability

[End of Life Information](#)