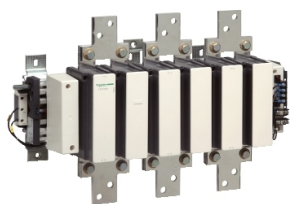


Product data sheet

Specifications



TeSys F contactor - 3P (3 NO) - AC-3 - <= 440 V 780 A - coil 208 V AC

LC1F780L7

⚠ Discontinued on: Aug 7, 2025

⚠ 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-1 AC-4 AC-3
Poles description	3P
[Ue] rated operational voltage	<= 1000 V AC 50/60 Hz <= 460 V DC
[Uc] control circuit voltage	208 V AC 40...400 Hz
[Ie] rated operational current	1600 A (at <104 °F (40 °C)) at <= 440 V AC AC-1 780 A (at <131 °F (55 °C)) at <= 440 V AC AC-3

Complementary

[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	1600 A (at 104 °F (40 °C))
Rated breaking capacity	6240 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	3000 A 104 °F (40 °C) - 3 min 6250 A 104 °F (40 °C) - 10 s 5600 A 104 °F (40 °C) - 30 s 4600 A 104 °F (40 °C) - 1 min 2200 A 104 °F (40 °C) - 10 min
Associated fuse rating	1600 A gG at <= 440 V 800 A aM at <= 440 V
Average impedance	0.1 mOhm - Ith 1600 A 50 Hz
[Ui] rated insulation voltage	1000 V IEC 60947-4-1 1500 V VDE 0110 group C
Power dissipation per pole	250 W AC-1 60 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	450 kW at 1000 V AC 50/60 Hz (AC-3) 400 kW at 380...400 V AC 50/60 Hz (AC-3) 425 kW at 415 V AC 50/60 Hz (AC-3) 425 kW at 440 V AC 50/60 Hz (AC-3) 450 kW at 500 V AC 50/60 Hz (AC-3) 475 kW at 660...690 V AC 50/60 Hz (AC-3) 220 kW at 220...230 V AC 50/60 Hz (AC-3) 110 kW at 400 V AC 50/60 Hz (AC-4)
Control circuit voltage limits	Operational 0.85...1.1 Uc 40...400 Hz 131 °F (55 °C)) Drop-out 0.2...0.4 Uc 40...400 Hz 131 °F (55 °C))
Mechanical durability	5 Mcycles
Inrush power in VA	2100 VA, 40...400 Hz 0.9 68 °F (20 °C))
Hold-in power consumption in VA	50 VA, 40...400 Hz 0.9 68 °F (20 °C))
Maximum operating rate	600 cyc/h 131 °F (55 °C)
Operating time	40...80 ms closing 130...230 ms opening
Connections - terminals	Control circuit screw clamp terminals 1 0.002...0.006 in² (1...4 mm²)flexible without cable end Control circuit screw clamp terminals 2 0.002...0.006 in² (1...4 mm²)flexible without cable end Control circuit screw clamp terminals 1 0.002...0.006 in² (1...4 mm²)flexible with cable end Control circuit screw clamp terminals 2 0.002...0.004 in² (1...2.5 mm²)flexible with cable end Control circuit screw clamp terminals 1 0.002...0.006 in² (1...4 mm²)solid without cable end Control circuit screw clamp terminals 2 0.002...0.006 in² (1...4 mm²)solid without cable end Power circuit bar 2 100 x 5 mm Power circuit bolted connection
Tightening torque	Control circuit 10.6 lbf.in (1.2 N.m) Power circuit 513.3 lbf.in (58 N.m)
Mounting support	Plate
Heat dissipation	44 W
Standards	IEC 60947-4-1 JIS C8201-4-1 EN 60947-1 IEC 60947-1 EN 60947-4-1
Product certifications	CCC CB UL ABS LROS (Lloyds register of shipping) DNV BV RMRoS RINA
Compatibility code	LC1F
Control circuit type	AC 40...400 Hz

Environment

IP degree of protection	IP20 front face with shrouds IEC 60529 IP20 front face with shrouds VDE 0106
Protective treatment	TH
Ambient air temperature for operation	23...131 °F (-5...55 °C)
Ambient air temperature for storage	-76...176 °F (-60...80 °C)
Permissible ambient air temperature around the device	-40...158 °F (-40...70 °C)

Height	17.09 in (434 mm)
Width	27.6 in (702 mm)
Depth	10.04 in (255 mm)
Operating altitude	3000 m without derating
Net weight	87.08 lb(US) (39.5 kg)

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	15.7 in (40 cm)
Package 1 Width	17.5 in (44.5 cm)
Package 1 Length	37.4 in (95 cm)
Package 1 Weight	125.7 lb(US) (57 kg)

Contractual warranty

Warranty (in months)	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

Environmental Disclosure

[Product Environmental Profile](#)

Use Better



Materials and Substances

[EU RoHS Directive](#)

Compliant

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