

contactor, TeSys F, 3P(3NO), AC-3, <=440V 780A, coil 110V AC

LC1F780F7

- ! To be discontinued on: Dec 31, 2025
- ! End-of-service on: Sep 13, 2024

① To be discontinued

Product availability: Non-Stock - Not normally stocked in distribution facility

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-4 AC-1 AC-3
Poles description	3P
[Ue] rated operational voltage	<= 1000 V AC 50/60 Hz <= 460 V DC
[Uc] control circuit voltage	110 V AC 40400 Hz
[le] 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
[lcw] 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

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Motor power kW	450 kW at 1000 V AC 50/60 Hz (AC-3) 400 kW at 380400 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 660690 V AC 50/60 Hz (AC-3) 220 kW at 220230 V AC 50/60 Hz (AC-3) 110 kW at 400 V AC 50/60 Hz (AC-4)	
Control circuit voltage limits	Operational 0.851.1 Uc 40400 Hz 131 °F (55 °C)) Drop-out 0.20.4 Uc 40400 Hz 131 °F (55 °C))	
Mechanical durability	5 Mcycles	
Inrush power in VA	2100 VA, 40400 Hz 0.9 68 °F (20 °C))	
Hold-in power consumption in VA	50 VA, 40400 Hz 0.9 68 °F (20 °C))	
Maximum operating rate	600 cyc/h 131 °F (55 °C)	
Operating time	4080 ms closing 130230 ms opening	
Connections - terminals	Control circuit screw clamp terminals 1 0.0020.006 in² (14 mm²)flexible without cable end Control circuit screw clamp terminals 2 0.0020.006 in² (14 mm²)flexible without cable end Control circuit screw clamp terminals 1 0.0020.006 in² (14 mm²)flexible with cable end Control circuit screw clamp terminals 2 0.0020.004 in² (12.5 mm²)flexible with cable end Control circuit screw clamp terminals 1 0.0020.006 in² (14 mm²)solid without cable end Control circuit screw clamp terminals 2 0.0020.006 in² (14 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	
motor power range	250500 kW 380440 V 3 phase 110220 kW 200240 V 3 phase 250500 kW 480500 V 3 phase	
Motor starter type	Direct on-line contactor	
Contactor coil voltage	110 V AC standard 120 V AC standard	
Standards	EN 60947-1 JIS C8201-4-1 IEC 60947-4-1 IEC 60947-1 EN 60947-4-1	
Product Certifications	UL RINA ABS CB RMRoS CSA LROS (Lloyds register of shipping) DNV BV UKCA	
Compatibility code	LC1F	
Control circuit type	AC 40400 Hz	

Environment

IP degree of protection

IP20 front face with shrouds IEC 60529

IP20 front face with shrouds VDE 0106

Protective treatment	тн
Ambient air temperature for operation	23131 °F (-555 °C)
Ambient Air Temperature for Storage	-76176 °F (-6080 °C)
Permissible ambient air temperature around the device	-40158 °F (-4070 °C)
Height	17.09 in (434 mm)
Width	27.6 in (702 mm)
Depth	10.04 in (255 mm)
Operating altitude	9842.52 ft (3000 m) without derating
Net Weight	87.08 lb(US) (39.5 kg)

Ordering and shipping details

Category	US10I1222336
Discount Schedule	0112
GTIN	3389110227246
Returnability	No
Country of origin	CZ

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	15.75 in (40.0 cm)
Package 1 Width	17.52 in (44.5 cm)
Package 1 Length	37.40 in (95.0 cm)
Package 1 Weight	125.7 lb(US) (57.0 kg)
Unit Type of Package 2	PAL
Unit Type of Package 2 Number of Units in Package 2	PAL 2
Number of Units in Package 2	2
Number of Units in Package 2 Package 2 Height	2 76.77 in (195.0 cm)

Contractual warranty

Warranty 18 months



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	
Carbon footprint (kg CO2 eq, Total Life cycle)	7135
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Compliant with Exemptions
REACh Regulation	REACh Declaration
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

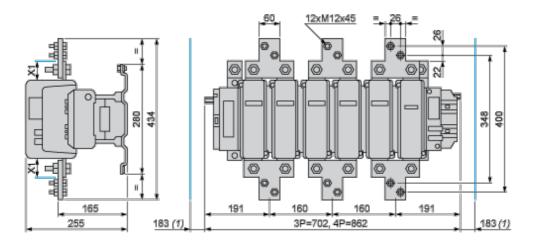
Use Again

○ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Dimensions Drawings

Dimensions and Drawings

LC1 F780

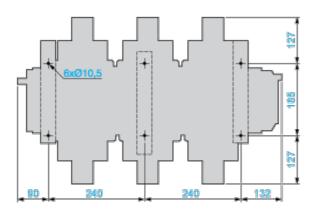


(1) Minimum distance required for coil removal.

NOTE: X1 (mm) = Minimum electrical clearance according to operating voltage and breaking capacity.

Voltage	200500 V	6901000 V
X1 (mm)	30	35

Fixing centers of LC1 F780

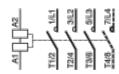


Product data sheet

LC1F780F7

Connections and Schema

Connections and Schema



LC1 F780 ~ or =

Technical Illustration

Assembly's dimensions

