Product data sheet

Specification





contactor, TeSys F, 3P(3NO), AC-3, <=440V 780A, coil 220V AC

LC1F780M7

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

Price*: 7,788.00 USD

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-1 AC-4
Poles Description	3P
[Ue] Rated Operational Voltage	<= 1000 V AC 50/60 Hz <= 460 V DC
[Uc] Control Circuit Voltage	220 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
[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

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 0.000.01 in² (14 mm²)flexible without cable end Control circuit screw clamp terminals 2 0.000.01 in² (14 mm²)flexible without cable end Control circuit screw clamp terminals 1 0.000.01 in² (14 mm²)flexible with cable end Control circuit screw clamp terminals 2 0.000.00 in² (12.5 mm²)flexible with cable end Control circuit screw clamp terminals 1 0.000.01 in² (14 mm²)solid without cable end Control circuit screw clamp terminals 2 0.000.01 in² (14 mm²)solid without cable end Power circuit bar 2 100 x 5 mm Power circuit bolted connection	
Tightening Torque	Control circuit 10.62 lbf.in (1.2 N.m) Power circuit 513.34 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	220 V AC standard	
Standards	EN 60947-4-1 IEC 60947-1 EN 60947-1 JIS C8201-4-1 IEC 60947-4-1	
Product Certifications	DNV RMRoS LROS (Lloyds register of shipping) CSA CB UL RINA ABS BV	
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	27.64 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	3389110227260
Returnability	No
Country Of Origin	CZ

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	17.32 in (44.0 cm)
Package 1 Width	16.14 in (41.0 cm)
Package 1 Length	37.40 in (95.0 cm)
Package 1 Weight	104.92 lb(US) (47.59 kg)
Unit Type Of Package 2	PAL
Number Of Units In Package 2	2
Package 2 Height	76.77 in (195.0 cm)
Package 2 Width	47.24 in (120.0 cm)
Package 2 Length	31.50 in (80.0 cm)
Package 2 Weight	269.41 lb(US) (122.2 kg)

Contractual warranty

Warranty	18 months

Sustainability Green Premium

Green PremiumTM **label** is Schneider Electric's commitment to delivering products with best-inclass 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

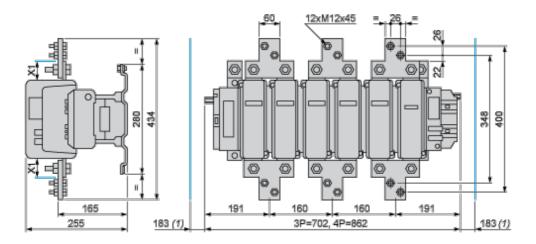
Certifications & Standards

Reach Regulation	REACh Declaration	
Eu Rohs Directive	Compliant with Exemptions	
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information.	
Environmental Disclosure	Product Environmental Profile	
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.	
Circularity Profile	End of Life Information	
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	

Dimensions Drawings

Dimensions and Drawings

LC1 F780

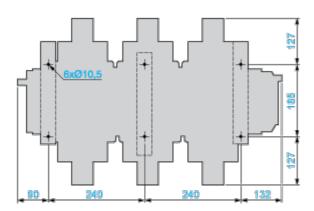


(1) Minimum distance required for coil removal.

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

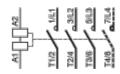


Product data sheet

LC1F780M7

Connections and Schema

Connections and Schema



LC1 F780 ~ or =

Product data sheet

LC1F780M7

Motor Starter BOM Motor Starter BOM