

Product data sheet

Specifications



contactor, TeSys F, 3P(3NO),
AC-3, <=440V 780A, coil 120V AC

LC1F780G7

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-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	120 V AC 40...400 Hz
[Ie] rated operational current	1600 A (at <104.0000000000 °F (40 °C)) at <= 440 V AC AC-1 780 A (at <131.0000000000 °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 104.0000000000 °F (40 °C))
Rated breaking capacity	6240 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	3000 A 104.0000000000 °F (40 °C) - 3 min 6250 A 104.0000000000 °F (40 °C) - 10 s 5600 A 104.0000000000 °F (40 °C) - 30 s 4600 A 104.0000000000 °F (40 °C) - 1 min 2200 A 104.0000000000 °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 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 131.0000000000 °F (55 °C)) Drop-out 0.2...0.4 Uc 40...400 Hz 131.0000000000 °F (55 °C))
Mechanical durability	5 Mcycles
Inrush power in VA	2100 VA, 40...400 Hz 0.9 68.0000000000 °F (20 °C))
Hold-in power consumption in VA	50 VA, 40...400 Hz 0.9 68.0000000000 °F (20 °C))
Maximum operating rate	600 cyc/h 131.0000000000 °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 in ² (1...4 mm ²)flexible without cable end Control circuit screw clamp terminals 2 0.002...0.006 in ² (1...4 mm ²)flexible without cable end Control circuit screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²)flexible with cable end Control circuit screw clamp terminals 2 0.002...0.004 in ² (1...2.5 mm ²)flexible with cable end Control circuit screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²)solid without cable end Control circuit screw clamp terminals 2 0.002...0.006 in ² (1...4 mm ²)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 60947-1 EN 60947-1 JIS C8201-4-1 IEC 60947-4-1 EN 60947-4-1
Product Certifications	CCC LROS (Lloyds register of shipping) BV RMRoS RINA CB UL DNV ABS
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	9842.52 ft (3000 m) without derating
Net Weight	87.08 lb(US) (39.5 kg)

Ordering and shipping details

Category	US10I1222336
Discount Schedule	0I12
GTIN	3389110227253
Returnability	No
Country of origin	CZ

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	13.8 in (35.0 cm)
Package 1 Width	16.9 in (43.0 cm)
Package 1 Length	42.1 in (107.0 cm)
Package 1 Weight	112.4 lb(US) (51.0 kg)

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.

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[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