

Product data sheet

Specifications



TeSys F contactor - 3P (3 NO) - AC-3 - <= 440 V 780 A - coil 380 V AC

LC1F780Q7

LC1F780Q7 has not been replaced. Please contact your customer care center for more information.

⚠ Discontinued

Price* : 7,788.00 USD

Main

Range	TeSys
Product name	TeSys F
Product or Component Type	Contactors
Device short name	LC1F
Contactors application	Motor control Resistive load
Utilisation category	AC-3 AC-4 AC-1
Poles description	3P
Power pole contact composition	3 NO
[Ie] rated operational current	1600 A 104 °F (40 °C) <= 440 V AC AC-1 780 A 131 °F (55 °C) <= 440 V AC AC-3
Motor power kW	450 kW 1000 V AC 50/60 Hz AC-3) 400 kW 380...400 V AC 50/60 Hz AC-3) 425 kW 415 V AC 50/60 Hz AC-3) 425 kW 440 V AC 50/60 Hz AC-3) 450 kW 500 V AC 50/60 Hz AC-3) 475 kW 660...690 V AC 50/60 Hz AC-3) 220 kW 220...230 V AC 50/60 Hz AC-3) 110 kW 400 V AC 50/60 Hz AC-4)
[Uc] control circuit voltage	380 V AC 40...400 Hz

Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	1600 A 104 °F (40 °C)
Rated breaking capacity	6240 A 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 <= 440 V 800 A aM <= 440 V

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

Average impedance	0.1 mOhm - lth 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
Mounting Support	Plate
Standards	EN 60947-1 IEC 60947-1 JIS C8201-4-1 EN 60947-4-1 IEC 60947-4-1
Product certifications	LROS (Lloyds register of shipping) DNV RINA RMRoS CB ABS BV CCC UL UKCA
Connections - terminals	Control circuit screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²)flexible without cable end Control circuit screw clamp terminals 2 0.00...0.01 in ² (1...4 mm ²)flexible without cable end Control circuit screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²)flexible with cable end Control circuit screw clamp terminals 2 0.00...0.00 in ² (1...2.5 mm ²)flexible with cable end Control circuit screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²)solid without cable end Control circuit screw clamp terminals 2 0.00...0.01 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 10.62 lbf.in (1.2 N.m) Power circuit 513.34 lbf.in (58 N.m)
Control circuit voltage limits	Operational 0.85...1.1 U _c 40...400 Hz 131 °F (55 °C)) Drop-out 0.2...0.4 U _c 40...400 Hz 131 °F (55 °C))
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))
Heat dissipation	44 W
Operating time	40...80 ms closing 130...230 ms opening
Mechanical durability	5 Mcycles
Maximum operating rate	600 cyc/h 131 °F (55 °C)
Compatibility code	LC1F

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)
Operating altitude	9842.52 ft (3000 m) without derating
Height	17.09 in (434 mm)
Width	27.64 in (702 mm)
Depth	10.04 in (255 mm)
Net weight	87.08 lb(US) (39.5 kg)

Ordering and shipping details

Category	22336-CTR,F-LINE,AC,OPEN,NONREV
Discount Schedule	I12
GTIN	3389110227277
Nbr. of units in pkg.	1
Package weight(Lbs)	110.23 lb(US) (50 kg)
Returnability	No

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	14.96 in (38 cm)
Package 1 width	17.72 in (45 cm)
Package 1 Length	37.01 in (94 cm)

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information.
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Contractual warranty

Warranty	18 months
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