LC1F780F7

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





Main

Range	TeSys
Product name	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
Power pole contact composition	3 NO
[Ue] rated operational voltage	<= 1000 V AC 50/60 Hz <= 460 V DC
[le] 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 380400 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 660690 V AC 50/60 Hz AC-3) 220 KW 220230 V AC 50/60 Hz AC-3) 110 kW 400 V AC 50/60 Hz AC-4)
[Uc] control circuit voltage	110 V AC 40400 Hz

Complementary

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
[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 <= 440 V 800 A aM <= 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
Mounting support	Plate
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	
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 in ² (14 mm ²)flexible without cable end	
	Control circuit screw clamp terminals 1 0.000.01 in ² (14 mm ²)flexible with cable end	
	Control circuit screw clamp terminals 2 0.000.00 in ² (12.5 mm ²)flexible with cable end	
	Control circuit screw clamp terminals 1 0.000.01 in ² (14 mm ²)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)	
Control circuit voltage limits	Operational 0.851.1 Uc 40400 Hz 131 °F (55 °C))	
G	Drop-out 0.20.4 Uc 40400 Hz 131 °F (55 °C))	
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))	
Heat dissipation	44 W	
Operating time	4080 ms closing	
	130230 ms opening	
Mechanical durability	5 Mcycles	
Maximum operating rate	600 cyc/h 55 °C	
Compatibility code	LC1F	
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	

Environment

TH
22 424 % (/ 5 5 5 %)
23131 °F (-555 °C)
-76176 °F (-6080 °C)
-40158 °F (-4070 °C)
3000 m without derating
17.09 in (434 mm)
27.64 in (702 mm)
10.04 in (255 mm)
87.08 lb(US) (39.5 kg)

Ordering and shipping details

Category	22336 - CTR,F-LINE,AC,OPEN,NONREV	
Discount Schedule	112	
GTIN	00785901166139	
Nbr. of units in pkg.	1	
Package weight(Lbs)	115 lb(US) (52.16 kg)	
Returnability	No	
Country of origin	CZ	

Packing Units

Package 1 Height	4.000 dm
Package 1 width	4.450 dm
Package 1 Length	9.500 dm

Offer Sustainability

Sustainable offer status	Green Premium product	
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	
EU RoHS Directive	Compliant EEU RoHS Declaration	
Mercury free	Yes	
RoHS exemption information	€Yes	
China RoHS Regulation	China RoHS Declaration	
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.	

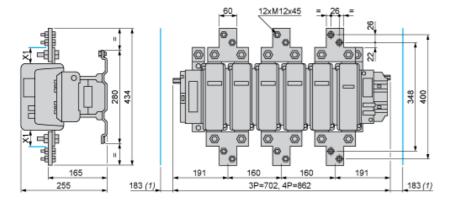
Contractual warranty

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Warranty	18 months

Product data sheet Dimensions Drawings

Dimensions and Drawings

LC1 F780

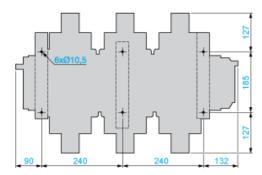


(1) Minimum distance required for coil removal.

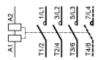
NOTE: X1 (mm) = Minimum electrical clearance according to operating voltage and breaking capacity.

Voltage	200500 V	6901000 V
X1 (mm)	30	35

Fixing centers of LC1 F780



Connections and Schema



LC1 F780 \sim or =

LC1F780F7

LC1F780F7