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 (at <40 °C) at <= 440 V AC AC-1 780 A (at <55 °C) at <= 440 V AC AC-3
Motor power kW	450 KW at 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
[lth] 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
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	
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: 1.2 N.m Power circuit: 58 N.m	
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))	
Inrush power in VA	2100 VA 40400 Hz 0.9 68 °F (20 °C))	
Hold-in power consumption in VA	50 VA 40400 Hz cos phi 0.9 (at 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

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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	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)
Maximum 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	l12
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

ustainable offer status Green Premium product		
California proposition 65	ia proposition 65 WARNING: This product can expose you to chemicals including: Lead a lead compounds, which is known to the State of California to cause can and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov	
REACh Regulation	☑REACh Declaration	
EU RoHS Directive	Compliant ☐EU 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.	

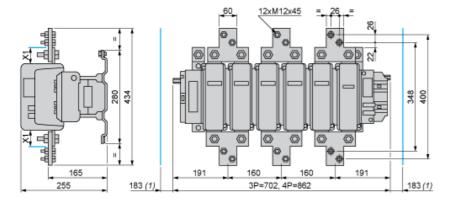
Contractual warranty

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٧	Varranty	18 months	

Product data sheet Dimensions Drawings

Dimensions and Drawings

LC1 F780

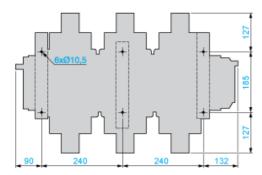


(1) Minimum distance required for coil removal.

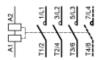
NOTE: X1 (mm) = Minimum electrical clearance according to operating voltage and breaking capacity.

Voltage	200500 V	6901000 V
X1 (mm)	30	35

Fixing centers of LC1 F780



Connections and Schema



LC1 F780 \sim or =

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