

TeSys F contactor - 3P (3 NO) - AC-3 - <= 440 V 800 A - coil 110...125 V DC

LC1F800FW

! Discontinued on: Jun 15, 2023

① Discontinued

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

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-4 AC-1
Poles description	3P
[Ue] rated operational voltage	<= 1000 V AC 50/60 Hz <= 460 V DC
[Uc] control circuit voltage	110125 V DC 100120 V AC 40400 Hz
[le] rated operational current	1000 A (at <104 °F (40 °C)) at <= 440 V AC AC-1 800 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	1000 A (at 104 °F (40 °C))
Rated breaking capacity	6400 A conforming to IEC 60947-4-1
[lcw] rated short-time withstand current	5500 A 104 °F (40 °C) - 10 s 4600 A 104 °F (40 °C) - 30 s 3600 A 104 °F (40 °C) - 1 min 2600 A 104 °F (40 °C) - 3 min 1700 A 104 °F (40 °C) - 10 min
Associated fuse rating	1000 A gG at <= 440 V 800 A aM at <= 440 V
Average impedance	0.12 mOhm - Ith 1000 A 50 Hz
[Ui] rated insulation voltage	1000 V IEC 60947-4-1 1500 V VDE 0110 group C
Power dissipation per pole	120 W AC-1 77 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)			
	450 kW at 500 V AC 50/60 Hz (AC-3)			
	475 kW at 660690 V AC 50/60 Hz (AC-3)			
	110 kW at 400 V AC 50/60 Hz (AC-4)			
	450 kW at 380400 V AC 50/60 Hz (AC-3)			
	450 kW at 415 V AC 50/60 Hz (AC-3)			
	450 kW at 440 V AC 50/60 Hz (AC-3)			
	250 kW at 220230 V AC 50/60 Hz (AC-3)			
Control circuit voltage limits	Operational 0.851.1 Uc 131 °F (55 °C))			
	Drop-out 0.30.5 Uc 131 °F (55 °C))			
Mechanical durability	5 Mcycles			
Inrush power in W	1900 W 68 °F (20 °C))			
Hold-in power consumption in W	12 W 68 °F (20 °C)			
Maximum operating rate	600 cyc/h 131 °F (55 °C)			
Operating time	4050 ms opening			
	6080 ms closing			
Connections - terminals	Control circuit screw clamp terminals 1 0.0020.006 in² (14 mm²)flexible without			
	cable end Control circuit screw clamp terminals 2 0.0020.006 in² (14 mm²)flexible without			
	cable end Control circuit screw clamp terminals 1 0.0020.006 in² (14 mm²)flexible with			
	cable end Control circuit screw clamp terminals 2 0.0020.004 in² (12.5 mm²)flexible with			
	cable end			
	Control circuit screw clamp terminals 1 0.0020.006 in² (14 mm²)solid without cable end			
	Control circuit screw clamp terminals 2 0.0020.006 in² (14 mm²)solid without			
	cable end			
	Power circuit bar 2 60 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)			
Manustina Commant				
Mounting Support	Plate			
Heat dissipation	12 W			
motor power range	250500 kW 200240 V 3 phase			
	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 DC standard			
	125 V DC standard			
	110 V AC standard			
	115 V AC standard 120 V AC standard			
Standards	EN 60947-4-1			
	IEC 60947-4-1 IEC 60947-1			
	EN 60947-1			
	JIS C8201-4-1			
Product Certifications	ABS			
	RMRoS			
	CCC			
	UL			
	CB			
	CSA			
	UKCA			
Compatibility code	LC1F			
Control circuit type	DC standard			
	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	23131 °F (-555 °C)
Height	12.0 in (304 mm)
Width	12.2 in (309 mm)
Depth	10.04 in (255 mm)
Operating altitude	9842.52 ft (3000 m) without derating
Product Weight	41.34 lb(US) (18.75 kg)

Ordering and shipping details

Category	US10I1222336
Discount Schedule	0112
GTIN	3389110790597
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	12.99 in (33.0 cm)
Package 1 Length	12.99 in (33.0 cm)
Package 1 Weight	41.833 lb(US) (18.975 kg)
Unit Type of Package 2	P06
Number of Units in Package 2	4
Package 2 Height	30.31 in (77.0 cm)
Package 2 Width	31.50 in (80.0 cm)
Package 2 Length	23.62 in (60.0 cm)
Package 2 Weight	182.45 lb(US) (82.76 kg)

Contractual warranty

Warranty 18 months



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

☑ Environmental footprint	
Carbon footprint (kg CO2 eq, Total Life cycle)	6484
Environmental Disclosure	Product Environmental Profile

Use Better

⊗ Materials and Substances	
Packaging made with recycled cardboard	No
Packaging without single use plastic	No
EU RoHS Directive	Compliant with Exemptions
REACh Regulation	REACh Declaration
China RoHS Regulation	China RoHS declaration
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

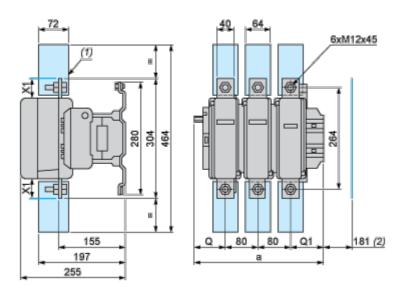
Use Again

○ Repack and remanufacture	
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.
Take-back	No

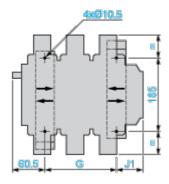
Dimensions Drawings

Dimensions and Drawings

LC1 F630 and F800



- (1) Power terminal protection shroud.
- (2) Minimum distance required for coil removal.



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

LC1		а	G supplied	G min.	G max.	J1	Q	Q1
F630	2P	309	180	100	195	68.5	102	127
F630, F800	3P	309	180	100	195	68.5	60	89
F630	4P	389	240	150	275	88.5	60	89

Voltage	200500 V	6901000 V	200690 V	1000 V
LC1 F630	20	30	_	-

Product data sheet

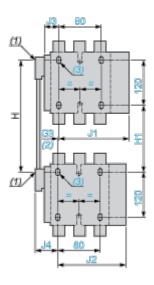
LC1F800FW

Voltage	200500 V	6901000 V	200690 V	1000 V
LC1 F800	_	-	10	20

TeSys F reversing contactors and changeover contactor pairs Vertically mounted

NOTE: For customer assembly, with mechanical interlock (MI) LA9 F, fixing recommended on AM1 EC uprights (please consult your Regional Sales Office). 2 x LC1 identical or different ratings (LC1 F115 to F630 and F800).

Assembly A



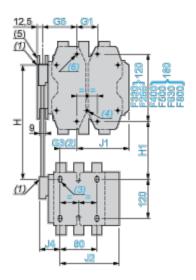
- (1) Mechanical interlock shaft.
- (2) For assembly of contactors of different ratings only.
- (3) 4 x Ø6.5 for LC1 F115 to F225.

Assembly A⁽⁷⁾ - Mechanical interlock reference

	G3 3P	G3 4P	H min.	H max.	H1 min.	H1 max.	J1 3P	J1 4P
LA9 FF4F	0	0	200	310	80	190	137	155.5
LA9 FG4F	3	4	210	300	90	180	139.5	159.5
LA9 FG4G	0	0	220	310	100	190	139.5	159.5

	J2 3P	J2 4P	J3 3P	J3 4P	J4 3P	J4 4P
LA9 FF4F	137	155.5	48.5	67	48.5	67
LA9 FG4F	137	155.5	53	73	54	69
LA9 FG4G	139.5	159.5	53	73	53	73

Assembly B



- (4) 4 x Ø6.5 for LC1 F265.
- (5) Mechanical interlock guide bracket.

Assembly $\mathsf{B}^{(7)}$ - Mechanical interlock reference

_	G1 3P	G1 4P	G3 3P	G3 4P	G5 3P	G5 4P	H min.	H max.
LA9 FH4F	96	96	21	27	60	83	240	380
LA9 FJ4F	80	80	45	26	83	83	250	380
LA9 FK4F	80	140	45	26	83	83	270	380
LA9 FL4F	180	240	35	17	74	74	310	380
LA9 FH4G	96	96	19	23	60	83	250	380
LA9 FJ4G	80	80	42	22	83	83	250	380
LA9 FK4G	80	140	42	22	83	83	270	380
LA9 FL4G	180	240	33	13	74	74	310	380

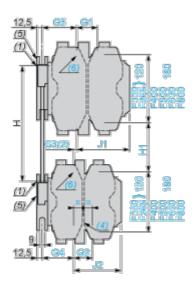
	H1 min.	H1 max.	J1 3P	J1 4P	J2 3P	J2 4P	J4 3P	J4 4P
LA9 FH4F	110	250	157.5	181.5	137	155.5	48.5	67
LA9 FJ4F	80	210	144.5	192.5	137	155.5	48.5	67
LA9 FK4F	100	210	164.5	219.5	137	155.5	48.5	67
LA9 FL4F	140	210	248.5	328.5	137	155.5	48.5	67
LA9 FH4G	120	250	157.5	181.5	139.5	159.5	53	73
LA9 FJ4G	90	220	144.5	192.5	139.5	159.5	53	73
LA9 FK4G	110	220	164.5	219.5	139.5	159.5	53	73

Product data sheet

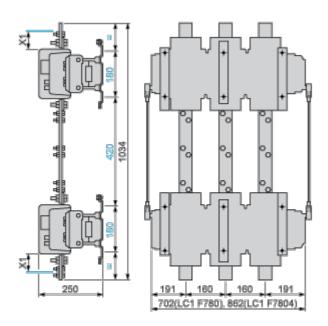
LC1F800FW

	H1 min.	H1 max.	J1 3P	J1 4P	J2 3P	J2 4P	J4 3P	J4 4P
LA9 FL4G	150	220	248.5	328.5	139.5	159.5	53	73

Assembly C



(6) 4 x Ø8.5 for LC1 F400, F500 or 4 x Ø10.5 for LC1 F630 and F800.



- (7) Only 3P for F800.
- (8) In this case, G4 is greater than G5.

Assembly C⁽⁷⁾

Assembly C										
	G1 3P	G1 4P	G2 3P	G2 4P	G3 3P	G3 4P	G4 3P	G4 4P	G5 3P	G5 4P
LA9 FH4H	96	96	96	96	0	0	60	83	60	83
LA9 FJ4H	80	80	96	96	23	0	60	83	83	83
LA9 FK4H	80	140	96	96	23	0	60	83	83	83

Product data sheet

LC1F800FW

	G1 3P	G1 4P	G2 3P	G2 4P	G3 3P	G3 4P	G4 3P	G4 4P	G5 3P	G5 4P
LA9 FL4H	180	240	96	96	14	9 ⁽⁸⁾	60	83	74	74
LA9 FJ4J	80	80	80	80	0	0	83	83	83	83
LA9 FK4J	80	140	80	80	0	0	83	83	83	83
LA9 FL4J	180	240	80	80	9 ⁽⁸⁾	9 ⁽⁸⁾	83	83	74	74
LA9 FK4K	80	140	80	140	0	0	83	83	83	83
LA9 FL4K	180	240	80	140	9 ⁽⁸⁾	9 ⁽⁸⁾	83	83	74	74
LA9 FL4L	180	240	180	240	0	0	74	74	74	74

	H min.	H max.	H1 min.	H1 max.	J1 3P	J1 4P	J2 3P	J2 4P
LA9 FH4H	250	380	130	260	157.5	181.5	157.5	181.5
LA9 FJ4H	260	380	110	230	144.5	192.5	157.5	181.5
LA9 FK4H	280	380	130	230	164.5	219.5	157.5	181.5
LA9 FL4H	330	380	170	220	248.5	328.5	157.5	181.5
LA9 FJ4J	260	380	60	200	144.5	192.5	144.5	192.5
LA9 FK4J	280	380	100	200	164.5	219.5	144.5	192.5
LA9 FL4J	325	380	140	195	248.5	329.5	144.5	192.5
LA9 FK4K	300	380	120	200	164.5	329.5	164.5	219.5
LA9 FL4K	345	380	160	195	248.5	328.5	164.5	219.5
LA9 FL4L	380	380	200	200	248.5	328.5	248.5	328.5

LC1F800FW

Connections and Schema

Connections and Schema

2, 3, and 4-pole Contactors



LC1 F115 to F630, F1250(coil LX1 F **)



LC1 F115 to F630 , F1250 (coil LX4 F ==)
LC1 F115 to F265 (coil LX9 F =>)
LC1 F800 (coil LX8 F => / ==)