

TeSys F contactor - 3P (3 NO) - AC-3 - <= 440 V 630 A - coil 240 V AC

LC1F630U7

! To be discontinued on: Dec 31, 2025

(!) To be discontinued

Main

Range	TeSys
Range Of Product	TeSys F
Product Or Component Type	Contactor
Device Short Name	LC1F
Contactor Application	Motor control Resistive load
Utilisation Category	AC-1 AC-4 AC-3
Poles Description	3P
[Ue] Rated Operational Voltage	
[Uc] Control Circuit Voltage	240 V AC 40400 Hz
[le] Rated Operational Current	1000 A (at <40 °C) at <= 440 V AC AC-1 630 A (at <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 40 °C) 1250 A
Rated Breaking Capacity	5040 A conforming to IEC 60947-4-1
[Icw] Rated Short-Time Withstand Current	5050 A 40 °C - 10 s 4400 A 40 °C - 30 s 3400 A 40 °C - 1 min 2200 A 40 °C - 3 min 1600 A 40 °C - 10 min
Associated Fuse Rating	1000 A gG at <= 440 V 630 A aM at <= 440 V
Average Impedance	0.12 mOhm - Ith 1000 A 50 Hz
[Ui] Rated Insulation Voltage	1000 V conforming to IEC 60947-4-1 1500 V conforming to VDE 0110 group C
Power Dissipation Per Pole	120 W AC-1 48 W AC-3
Overvoltage Category	III
Power Pole Contact Composition	3 NO

375 WM at 415 VAC 5060 Hz (AC-3)		
Control Circuit Voltage Limits	Motor Power Kw	375 kW at 415 V AC 50/60 Hz (AC-3) 400 kW at 440 V AC 50/60 Hz (AC-3) 400 kW at 500 V AC 50/60 Hz (AC-3) 450 kW at 660690 V AC 50/60 Hz (AC-3) 450 kW at 1000 V AC 50/60 Hz (AC-3) 200 kW at 220230 V AC 50/60 Hz (AC-3)
Mechanical Durability 5 Mcycles Inrush Power In Va 1650 VA, 40400 Hz cos phi 0.9 (at 20 °C) Maximum Operating Rate 1200 cych 55 °C Derating Time 4080 ms closing 100200 ms opening 100	Control Circuit Voltage Limits	Operational: 0.851.1 Uc 40400 Hz (at 55 °C)
Hold-in Power Consumption in Va 22 VA, 40400 Hz cos phi 0.9 (at 20 °C) Maximum Operating Rate 1200 cych 55 °C Deparating Time 4080 ms closing 100200 ms opening Control circuit: screw clamp terminals 1 cable(s) 14 mm*Risuble without cable and Control circuit: screw clamp terminals 2 cable(s) 14 mm*Risuble without cable and Control circuit: screw clamp terminals 2 cable(s) 14 mm*Risuble with cable and Control circuit: screw clamp terminals 2 cable(s) 14 mm*Risuble with cable and Control circuit: screw clamp terminals 2 cable(s) 14 mm*Risuble with cable and Control circuit: screw clamp terminals 2 cable(s) 14 mm*Risuble with cable and Control circuit: screw clamp terminals 2 cable(s) 14 mm*Risuble with cable and Control circuit: screw clamp terminals 2 cable(s) 14 mm*Risuble with cable and Power circuit: bolled connection Fightening Torque Control circuit: 12 N.m Power circuit: bolled connection Control circuit: 20 N.m Power circuit: 20 N.m Power circuit: 20 N.m Power circuit: 58 N.m Mounting Support Plate Heat Dissipation 20 W Motor Power Range 250500 kW at 380440 V 3 phases 110220 kW at 200240 V 3 phases 110220 kW at 200400 V 3 phases 110220 kW at 200400 V 3 phases 110220 kW at 200400 V 3 phases 110220 kW at 200410 V 3 phases 110220 kW a	Mechanical Durability	5 Mcycles
Maximum Operating Rate 1200 cyc/h 55 °C Deparating Time 4080 ms closing 100290 ms opening Control circuit: screw clamp terminals 1 cable(s) 14 mm*flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm*flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm*flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm*flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm*solid without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm*solid without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm*solid without cable end Power circuit bar 2 cable(s) 14 mm*solid without cab	Inrush Power In Va	1650 VA, 40400 Hz cos phi 0.9 (at 20 °C)
Departing Time 4080 ms closing 100200 ms opening Control circuit: screw clamp terminals 1 cable(s) 14 mm*flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm*flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm*flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 15 mm*flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 15 mm*flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 15 mm*flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm*solid without cable end Power circuit: bar 2 cable(s) 14 mm*solid without cable end Power circuit: bar 2 cable(s) 14 mm*solid without cable end Power circuit: bar 2 cable(s) 14 mm*solid without cable end Power circuit: bar 2 cable(s) 14 mm*solid without cable end Power circuit: bar 2 cable(s) 14 mm*solid without cable end Power circuit: bar 2 cable(s) 14 mm*solid without cable end Power circuit: bar 2 cable(s) 14 mm*solid without cable end Power circuit: bar 2 cable(s) 14 mm*solid without cable end Power circuit: bar 2 cable(s) 14 mm*solid without cable end Power circuit: bar 2 cable(s) 14 mm*solid without cable end Power circuit: bar 2 cable(s) 14 mm*solid without cable end Power circuit: bar 2 cable(s) 14 mm*solid without cable end Cantrol circuit: 1.2 N.m. Power circuit: bar 2 cable(s) 14 mm*solid without cable end Cantrol circuit: 1.2 N.m. Power circuit: bar 2 cable(s) 14 mm*solid without cable end Cantrol cable end Power circuit: bar 2 cable(s) 14 mm*solid without cable end Cantrol	Hold-In Power Consumption In Va	22 VA, 40400 Hz cos phi 0.9 (at 20 °C)
Control circuit: screw clamp terminals 1 cable(s) 14 mm*flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm*flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm*flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm*flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm*flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm*sold without cable end Power circuit: screw clamp terminals 2 cable(s) 14 mm*sold without cable end Power circuit: bar 2 cable(s) 14 mm*sold without cable end Power circuit bar 2 cable(s) 14 mm*sold without cable end Power circuit bar 2 cable(s) 14 mm*sold without cable end Power circuit: bar 2 cable(s) 14 mm*sold without cable end Power circuit: 58 N.m Fightening Torque Control circuit: 12 N.m Power circuit: 58 N.m Mounting Support Plate Heat Dissipation 20 W Motor Power Range 250500 kW at 380440 V 3 phases 250500 kW at 480500 V 3 phases 250500 kW at 480400 V 3 phases 250500 kW at 480500 V 3 phases 250500 kW at 480400 V 3 phases 250500 kW at 480	Maximum Operating Rate	1200 cyc/h 55 °C
Control circuit: screw clamp terminals 2 cable(s) 14 mm*flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm*flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm*flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm*flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm*flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm*flexible with cable end Power circuit: 52 cable(s) - busbar cross section: 60 x 5 mm Power circuit: 52 cable(s) - busbar cross section: 60 x 5 mm Power circuit: 58 N.m Mounting Torque Control circuit: 1.2 N.m Power circuit: 58 N.m Mounting Support Plate Heat Dissipation 20 W Motor Power Range 250500 kW at 380440 V 3 phases 110220 kW at 200240 V 3 phases 250500 kW at 38000 V 3 phases Wotor Starter Type Direct on-line contactor Contactor Coil Voltage 240 V AC standard EN 60947-4-1 EN 60947-4-1 EC 60947-4-1 E	Operating Time	· · · · · · · · · · · · · · · · · · ·
Mounting Support Plate Heat Dissipation 20 W Motor Power Range 250500 kW at 380440 V 3 phases 110220 kW at 200240 V 3 phases 250500 kW at 480500 V 3 phases Motor Starter Type Direct on-line contactor Contactor Coil Voltage 240 V AC standard En 60947-4-1 IEC 60947-4-1 IEC 60947-1	Connections - Terminals	Control circuit: screw clamp terminals 2 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²solid without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²solid without cable end Power circuit: bar 2 cable(s) - busbar cross section: 60 x 5 mm
Motor Power Range 250500 kW at 380440 V 3 phases 110220 kW at 200240 V 3 phases 250500 kW at 480500 V 3 phases 250500 kW at 480500 V 3 phases 250500 kW at 480500 V 3 phases Motor Starter Type Direct on-line contactor Contactor Coil Voltage 240 V AC standard EN 60947-4-1 IEC 60947-4-1 IEC 60947-4-1 IEC 60947-4-1 IEC 60947-1 IEC 6	Tightening Torque	
Motor Power Range 250500 kW at 380440 V 3 phases 250500 kW at 480500 V 3 phases 250500 kW at 480500 V 3 phases 250500 kW at 480500 V 3 phases Motor Starter Type Direct on-line contactor Contactor Coll Voltage 240 V AC standard EN 60947-4-1 EN 60947-4-1 JIS C8201-4-1 IEC 60947-1 IEC 60947-1 UL LROS (Lloyds register of shipping) ABS RINA RMROS CSA DNV CB BV UKCA Compatibility Code LC1F Control Circuit Type AC at 40400 Hz Environment IP20 front face with shrouds conforming to IEC 60529 IP20 front face with shrouds conforming to VDE 0106 Protective Treatment TH Ambient Air Temperature For Operation	Mounting Support	Plate
## 110220 kW at 200240 V 3 phases 250500 kW at 480500 V 3 phases ## 250500 kW at 480500 V 3 phases	Heat Dissipation	20 W
Contactor Coil Voltage 240 V AC standard EN 60947-4-1 EN 60947-4-1 IEC 60947-4-1 JIS C8201-4-1 IEC 60947-1 Product Certifications UL LROS (Lloyds register of shipping) ABS RINA RMROS CSA DNV CB BV UKCA Compatibility Code LC1F Control Circuit Type AC at 40400 Hz Environment IP Degree Of Protection IP20 front face with shrouds conforming to IEC 60529 IP20 front face with shrouds conforming to VDE 0106 Protective Treatment TH Ambient Air Temperature For Operation Ambient Air Temperature For -6080 °C	Motor Power Range	110220 kW at 200240 V 3 phases
Standards EN 60947-4-1 EN 60947-4-1 IEC 60947-4-1 JIS C8201-4-1 IEC 60947-1 Product Certifications UL LROS (Lloyds register of shipping) ABS RINA RMROS CSA DNV CB BV UKCA Compatibility Code LC1F Control Circuit Type AC at 40400 Hz Environment IP 20 front face with shrouds conforming to IEC 60529 IP 20 front face with shrouds conforming to VDE 0106 Protective Treatment TH Ambient Air Temperature For Operation Ambient Air Temperature For -6080 °C	Motor Starter Type	Direct on-line contactor
EN 60947-1 IEC 60947-4-1 JIS C8201-4-1 IEC 60947-1 IEC 60947-1 IEC 60947-1 Product Certifications UL LROS (Lloyds register of shipping) ABS RINA RMROS CSA DNV CB BV UKCA Compatibility Code LC1F Control Circuit Type AC at 40400 Hz Environment IP20 front face with shrouds conforming to IEC 60529 IP20 front face with shrouds conforming to VDE 0106 Protective Treatment TH Ambient Air Temperature For Operation Ambient Air Temperature For -6080 °C	Contactor Coil Voltage	240 V AC standard
LROS (Lloyds register of shipping) ABS RINA RMRoS CSA DNV CB BV UKCA Control Circuit Type AC at 40400 Hz Environment IP Degree Of Protection IP20 front face with shrouds conforming to IEC 60529 IP20 front face with shrouds conforming to VDE 0106 Protective Treatment TH Ambient Air Temperature For Operation Ambient Air Temperature For -6080 °C	Standards	EN 60947-1 IEC 60947-4-1 JIS C8201-4-1
Environment IP Degree Of Protection IP20 front face with shrouds conforming to IEC 60529 IP20 front face with shrouds conforming to VDE 0106 Protective Treatment TH Ambient Air Temperature For Operation Ambient Air Temperature For -6080 °C	Product Certifications	LROS (Lloyds register of shipping) ABS RINA RMRoS CSA DNV CB BV
Environment IP Degree Of Protection IP20 front face with shrouds conforming to IEC 60529 IP20 front face with shrouds conforming to VDE 0106 Protective Treatment TH Ambient Air Temperature For Operation Ambient Air Temperature For -6080 °C	Compatibility Code	LC1F
Protective Treatment Ambient Air Temperature For Operation Protective Treatment -555 °C -6080 °C	Control Circuit Type	AC at 40400 Hz
Protective Treatment TH Ambient Air Temperature For Operation Ambient Air Temperature For -6080 °C	Environment	
Ambient Air Temperature For -555 °C Operation Ambient Air Temperature For -6080 °C	Ip Degree Of Protection	
Operation Ambient Air Temperature For -6080 °C	Protective Treatment	ТН
	Ambient Air Temperature For Operation	-555 °C
Storage	Ambient Air Temperature For Storage	-6080 °C

Permissible Ambient Air Temperature Around The Device	-4070 °C
Height	304 mm
Width	309 mm
Depth	255 mm
Operating Altitude	3000 m without derating
Net Weight	18.6 kg

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	33.5 cm
Package 1 Width	33.5 cm
Package 1 Length	43.5 cm
Package 1 Weight	18.75 kg
Unit Type Of Package 2	P06
Number Of Units In Package 2	4
Package 2 Height	77.0 cm
Package 2 Width	80.0 cm
Package 2 Length	60.0 cm
Package 2 Weight	82.54 kg

Contractual warranty

Warranty 18 months

Sustainability

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass 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.

Yes

Learn more about Green Premium >

Guide to assess a product's sustainability >

Well-being performance

Rohs Exemption Information

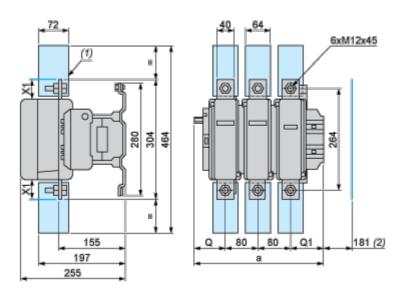
Mercury Free

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
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
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

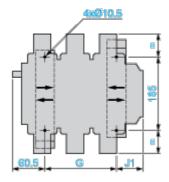
Dimensions Drawings

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

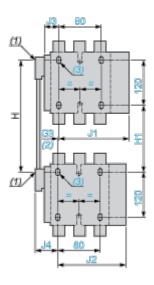
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Voltage	200500 V	6901000 V	200690 V	1000 V
LC1 F800	_	-	10	20

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



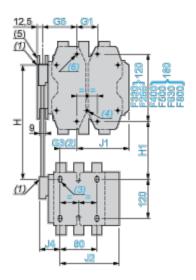
- (1) Mechanical interlock shaft.
- (2) For assembly of contactors of different ratings only.
- (3) 4 x Ø6.5 for LC1 F115 to F225.

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

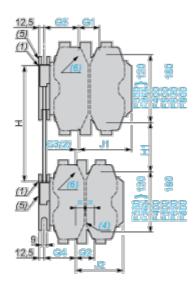
	G1 3P	G1 4P	G3 3P	G3 4P	G5 3P	G5 4P	H min.	H max.
LA9 FH4F	96	96	21	27	60	83	240	380
LA9 FJ4F	80	80	45	26	83	83	250	380
LA9 FK4F	80	140	45	26	83	83	270	380
LA9 FL4F	180	240	35	17	74	74	310	380
LA9 FH4G	96	96	19	23	60	83	250	380
LA9 FJ4G	80	80	42	22	83	83	250	380
LA9 FK4G	80	140	42	22	83	83	270	380
LA9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

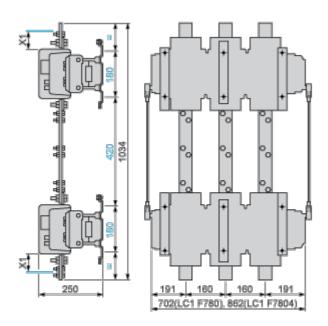
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	H1 min.	H1 max.	J1 3P	J1 4P	J2 3P	J2 4P	J4 3P	J4 4P
LA9 FL4G	150	220	248.5	328.5	139.5	159.5	53	73

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

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	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

LC1F630U7

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 => / ==)

Product data sheet

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Motor Starter BOM Motor Starter BOM