Product data sheet

Specification





TeSys F contactor - 3P (3 NO) - AC-3 - <= 440 V 150 A - coil 220 V AC

LC1F150M7

! Discontinued on: Jun 15, 2023

! Discontinued

Product availability: Stock - 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-1 AC-4
Poles Description	3P
[Ue] Rated Operational Voltage	<= 690 V AC 50/60 Hz <= 460 V DC
[Uc] Control Circuit Voltage	220 V AC 40400 Hz
[le] Rated Operational Current	250 A (at <104 °F (40 °C)) at <= 440 V AC-1 150 A (at <131 °F (55 °C)) at <= 440 V AC-3

Complementary

[Uimp] Rated Impulse Withstand Voltage	8 kV
[Ith] Conventional Free Air Thermal Current	250 A (at 104 °F (40 °C))
Rated Breaking Capacity	1200 A conforming to IEC 60947-4-1
[Icw] Rated Short-Time Withstand Current	1200 A 104 °F (40 °C) - 10 s 700 A 104 °F (40 °C) - 30 s 600 A 104 °F (40 °C) - 1 min 450 A 104 °F (40 °C) - 3 min 350 A 104 °F (40 °C) - 10 min
Associated Fuse Rating	160 A aM at <= 440 V 250 A gG at <= 440 V
Average Impedance	0.35 mOhm - Ith 250 A 50 Hz
[Ui] Rated Insulation Voltage	1000 V IEC 60947-4-1 1500 V VDE 0110 group C
Power Dissipation Per Pole	22 W AC-1 8 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		
Drop-out 0.20.55 Uc 40400 Hz 131 °F (55 °C)	Motor Power Kw	80 kW at 415 V AC 50/60 Hz (AC-3) 80 kW at 440 V AC 50/60 Hz (AC-3) 90 kW at 500 V AC 50/60 Hz (AC-3) 100 kW at 660690 V AC 50/60 Hz (AC-3) 40 kW at 220230 V AC 50/60 Hz (AC-3)
Inrush Power In Va	Control Circuit Voltage Limits	• • • • • • • • • • • • • • • • • • • •
Hold-In Power Consumption In Va 8.1 VA, 40400 Hz 0.3 68 °F (20 °C)) Maximum Operating Rate 2400 cych 131 °F (55 °C) Operating Time 35 ms closing at Uc) 130 ms opening at Uc) 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 1 0.000.01 in² (14 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 1 0.000.01 in² (14 mm²)solid without cable end Power circuit bar 2 25 x 3 mm Power circuit bar 2 25 x 3 mm Power circuit connector 1 0.19 in² (120 mm²) Power circuit connector 1 0.19 in² (120 mm²) Power circuit connector 1 0.19 in² (120 mm²) Power circuit bolted connection Tightening Torque Control circuit 10.62 lbtin (1.2 N.m) Power circuit bolted connection Fightening Support Plate Heat Dissipation 5.97.2 W Standards EN 60947-4.1 EN 60947-4	Mechanical Durability	10 Mcycles
Maximum Operating Rate 2400 cych 131 "F (55 "C) Operating Time 35 ms closing at Uc) 130 ms opening at Uc) 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 1 0.000.01 in² (14 mm²)flexible with cable end Control circuit screw clamp terminals 2 0.000.00 in² (14 mm²)solid without 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 Control circuit screw clamp terminals 2 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 Control circuit screw clamp terminals 2 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 Control circuit screw clamp terminals 2 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 Control circuit screw clamp terminals 2 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 Control circuit screw clamp terminals 2 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 Control circuit screw clamp terminals 2 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 Control circuit screw clamp terminals 2 0.000.01 in² (14 mm²)solid without cable end Control circuit screw clamp terminals 2 0.000.01 in² (14 mm²)solid without cabl	Inrush Power In Va	770 VA, 40400 Hz 0.9 68 °F (20 °C))
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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 1 0.000.01 in² (14 mm²)flexible with cable end Control circuit screw clamp terminals 2 0.000.00 in² (14 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 Control circuit screw clamp terminals 2 0.000.01 in² (14 mm²)solid without cable end Power circuit taps-ring terminals 1 0.19 in² (120 mm²) Power circuit taps-ring terminals 1 0.19 in² (120 mm²) Power circuit connector 1 0.19 in² (120 mm²) Power circuit connector 1 0.19 in² (120 mm²) Power circuit screw clamp terminals 1 0.19 in² (120 mm²) Power circuit topled connection Tightening Torque Control circuit 10,62 lbt.in (1.2 N.m) Power circuit 159.31 lbf.in (18 N.m) Mounting Support Plate Heat Dissipation 5.97.2 W Standards En 60947-4.1 Elec 60947-4.1	Maximum Operating Rate	2400 cyc/h 131 °F (55 °C)
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Power circuit 159.31 lbf.in (18 N.m)	Connections - Terminals	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 Control circuit screw clamp terminals 2 0.000.01 in² (14 mm²)solid without cable end Power circuit bar 2 25 x 3 mm Power circuit lugs-ring terminals 1 0.19 in² (120 mm²) Power circuit connector 1 0.19 in² (120 mm²)
Standards EN 60947-4-1 EN 60947-4-1 IEC 60947-4-1 JIS C8201-4-1 IEC 60947-1 Product Certifications BV RINA LROS (Lloyds register of shipping) RMRoS ABS CCC CB UL DNV UKCA Compatibility Code LC1F Control Circuit Type AC 40400 Hz Environment Ip Degree Of Protection IP2X front face with shrouds IEC 60529 IP2X front face with shrouds VDE 0106 Protective Treatment TH Ambient Air Temperature For Operation Ambient Air Temperature For -76176 °F (-6080 °C)	Tightening Torque	
Standards	Mounting Support	Plate
EN 60947-1 IEC 60947-41 JIS C8201-4-1 IEC 60947-1 Product Certifications BV RINA LROS (Lloyds register of shipping) RMROS ABS CCC CB UL DNV UKCA Compatibility Code LC1F Control Circuit Type AC 40400 Hz Environment Ip Degree Of Protection IP2X front face with shrouds IEC 60529 IP2X front face with shrouds VDE 0106 Protective Treatment TH Ambient Air Temperature For Operation Ambient Air Temperature For -76176 °F (-6080 °C)	Heat Dissipation	5.97.2 W
RINA LROS (Lloyds register of shipping) RMRoS ABS CCC CB UL DNV UKCA Compatibility Code LC1F Control Circuit Type AC 40400 Hz Environment Ip Degree Of Protection IP2X front face with shrouds IEC 60529 IP2X front face with shrouds VDE 0106 Protective Treatment TH Ambient Air Temperature For	Standards	EN 60947-1 IEC 60947-4-1 JIS C8201-4-1
Control Circuit Type AC 40400 Hz Environment Ip Degree Of Protection IP2X front face with shrouds IEC 60529 IP2X front face with shrouds VDE 0106 Protective Treatment TH Ambient Air Temperature For Operation Ambient Air Temperature For -76176 °F (-6080 °C)	Product Certifications	RINA LROS (Lloyds register of shipping) RMRoS ABS CCC CB UL DNV
Environment Ip Degree Of Protection IP2X front face with shrouds IEC 60529 IP2X front face with shrouds VDE 0106 Protective Treatment TH Ambient Air Temperature For Operation Ambient Air Temperature For -76176 °F (-6080 °C)	Compatibility Code	LC1F
IP2X front face with shrouds IEC 60529 IP2X front face with shrouds VDE 0106 Protective Treatment TH Ambient Air Temperature For Operation Ambient Air Temperature For -76176 °F (-6080 °C)	Control Circuit Type	AC 40400 Hz
Protective Treatment TH Ambient Air Temperature For Operation Ambient Air Temperature For -76176 °F (-6080 °C)	Environment	
Ambient Air Temperature For Operation -40140 °F (-4060 °C) -76176 °F (-6080 °C)	Ip Degree Of Protection	
Operation Ambient Air Temperature For -76176 °F (-6080 °C)	Protective Treatment	тн
		-40140 °F (-4060 °C)
		-76176 °F (-6080 °C)

Permissible Ambient Air Temperature Around The Device	140158 °F (6070 °C) at Uc
Height	6.69 in (170 mm)
Width	6.44 in (163.5 mm)
Depth	6.73 in (171 mm)
Operating Altitude	9842.52 ft (3000 m) without derating
Net Weight	7.56 lb(US) (3.43 kg)

Ordering and shipping details

Category	US10I1222336
Discount Schedule	0112
Gtin	3389110350975
Returnability	No
Country Of Origin	CZ

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	7.48 in (19.000 cm)
Package 1 Width	7.87 in (20.000 cm)
Package 1 Length	8.86 in (22.500 cm)
Package 1 Weight	8.99 lb(US) (4.079 kg)
Unit Type Of Package 2	P06
Number Of Units In Package 2	18
Package 2 Height	29.53 in (75.000 cm)
Package 2 Width	23.62 in (60.000 cm)
Package 2 Length	31.50 in (80.000 cm)
Package 2 Weight	185.24 lb(US) (84.022 kg)

Contractual warranty

Warranty 18 months

Sustainability Green Premium

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.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

Yes

Certifications & Standards

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.
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Circularity Profile	End of Life Information
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