Product data sheet

Specifications

Green Premium™

TeSys F contactor - 3P (3 NO) - AC-3 - <= 440 V 225 A - coil 415 V AC

LC1F225N7

Discontinued on: Jun 15, 2023

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-4 AC-1 AC-3
Poles Description	3P
[Ue] Rated Operational Voltage	<= 460 V DC <= 690 V AC 50/60 Hz
[Uc] Control Circuit Voltage	415 V AC 40...400 Hz
[Ie] Rated Operational Current	315 A (at <104 °F (40 °C)) at <= 440 V AC-1 225 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	315 A (at 104 °F (40 °C))
Rated Breaking Capacity	1800 A conforming to IEC 60947-4-1
[Icw] Rated Short-Time Withstand Current	1800 A 104 °F (40 °C) - 10 s 1000 A 104 °F (40 °C) - 30 s 850 A 104 °F (40 °C) - 1 min 560 A 104 °F (40 °C) - 3 min 440 A 104 °F (40 °C) - 10 min
Associated Fuse Rating	315 A gG at <= 440 V 250 A aM at <= 440 V
Average Impedance	0.32 mOhm - Ith 315 A 50 Hz
[Ui] Rated Insulation Voltage	1000 V IEC 60947-4-1 1500 V VDE 0110 group C
Power Dissipation Per Pole	32 W AC-1 16 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.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Motor Power Kw	110 kW at 380...400 V AC 50/60 Hz (AC-3) 110 kW at 415 V AC 50/60 Hz (AC-3) 110 kW at 440 V AC 50/60 Hz (AC-3) 129 kW at 500 V AC 50/60 Hz (AC-3) 129 kW at 660...690 V AC 50/60 Hz (AC-3) 63 kW at 220...230 V AC 50/60 Hz (AC-3) 40 kW at 400 V AC 50/60 Hz (AC-4)
Control Circuit Voltage Limits	Operational 0.85...1.1 Uc 40...400 Hz 131 °F (55 °C)) Drop-out 0.2...0.55 Uc 40...400 Hz 131 °F (55 °C))
Mechanical Durability	10 Mcycles
Inrush Power In Va	1070 VA, 40...400 Hz 0.9 68 °F (20 °C))
Hold-In Power Consumption In Va	9.9 VA, 40...400 Hz 0.9 68 °F (20 °C))
Maximum Operating Rate	2400 cyc/h 131 °F (55 °C)
Operating Time	35 ms closing at Uc) 130 ms opening at Uc)
Connections - Terminals	Control circuit screw clamp terminals 1 0.00…0.01 in² (1…4 mm²)flexible without cable end Control circuit screw clamp terminals 2 0.00…0.01 in² (1…4 mm²)flexible without cable end Control circuit screw clamp terminals 1 0.00…0.01 in² (1…4 mm²)flexible with cable end Control circuit screw clamp terminals 2 0.00…0.00 in² (1…2.5 mm²)flexible with cable end Control circuit screw clamp terminals 1 0.00…0.01 in² (1…4 mm²)solid without cable end Control circuit screw clamp terminals 2 0.00…0.01 in² (1…4 mm²)solid without cable end Power circuit bar 2 32 x 4 mm Power circuit lugs-ring terminals 1 0.29 in² (185 mm²) Power circuit connector 1 0.29 in² (185 mm²) Power circuit bolted connection
Tightening Torque	Control circuit 10.62 lbf.in (1.2 N.m) Power circuit 309.78 lbf.in (35 N.m)
Mounting Support	Plate
Heat Dissipation	8…9.8 W
Standards	IEC 60947-1 EN 60947-1 JIS C8201-4-1 IEC 60947-4-1 EN 60947-4-1
Product Certifications	DNV CB LROS (Lloyds register of shipping) UL CCC RMRoS ABS RINA BV UKCA
Compatibility Code	LC1F
Control Circuit Type	AC 40...400 Hz

Environment

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	23…131 °F (-5…55 °C)
Ambient Air Temperature For Storage	-76…176 °F (-60…80 °C)

Permissible Ambient Air Temperature Around The Device	-40…158 °F (-40…70 °C)
Height	7.76 in (197 mm)
Width	6.63 in (168.5 mm)
Depth	7.13 in (181 mm)
Operating Altitude	9842.52 ft (3000 m) without derating
Net Weight	10.47 lb(US) (4.75 kg)

Ordering and shipping details

Category	US10I1222336
Discount Schedule	0I12
Gtin	3389110460094
Returnability	No
Country Of Origin	CZ

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	8.40 in (21.34 cm)
Package 1 Width	8.70 in (22.1 cm)
Package 1 Length	9.20 in (23.37 cm)
Package 1 Weight	11.60 lb(US) (5.26 kg)

Contractual warranty

Warranty	18 months

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 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
Pvc Free	

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