Product data sheet

Specifications

Green Premium™

TeSys F contactor - 3P (3 NO) - AC-3 - <= 440 V 275 A - coil 110 V AC

LC1F185F6

Discontinued on: Feb 17, 2021

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-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	110 V AC 60 Hz
[Ie] Rated Operational Current	275 A (at <104 °F (40 °C)) at <= 440 V AC-1 185 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	275 A (at 104 °F (40 °C))
Rated Breaking Capacity	1480 A conforming to IEC 60947-4-1
[Icw] Rated Short-Time Withstand Current	1500 A 104 °F (40 °C) - 10 s 920 A 104 °F (40 °C) - 30 s 740 A 104 °F (40 °C) - 1 min 500 A 104 °F (40 °C) - 3 min 400 A 104 °F (40 °C) - 10 min
Associated Fuse Rating	200 A aM at <= 440 V 315 A gG at <= 440 V
Average Impedance	0.33 mOhm - Ith 275 A 50 Hz
[Ui] Rated Insulation Voltage	1000 V IEC 60947-4-1 1500 V VDE 0110 group C
Power Dissipation Per Pole	12 W AC-3 25 W AC-1
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	90 kW at 380...400 V AC 50/60 Hz (AC-3) 100 kW at 415 V AC 50/60 Hz (AC-3) 100 kW at 440 V AC 50/60 Hz (AC-3) 110 kW at 500 V AC 50/60 Hz (AC-3) 110 kW at 660...690 V AC 50/60 Hz (AC-3) 55 kW at 220...230 V AC 50/60 Hz (AC-3) 33 kW at 400 V AC 50/60 Hz (AC-4)
Control Circuit Voltage Limits	Operational 0.85...1.1 Uc 50/60 Hz 131 °F (55 °C)) Drop-out 0.35...0.55 Uc 50/60 Hz 131 °F (55 °C))
Mechanical Durability	10 Mcycles
Inrush Power In Va	970 VA, 60 Hz 0.3 68 °F (20 °C))
Hold-In Power Consumption In Va	66 VA, 60 Hz 0.3 68 °F (20 °C))
Maximum Operating Rate	2400 cyc/h 131 °F (55 °C)
Operating Time	20...35 ms closing 7...15 ms opening
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 25 x 3 mm Power circuit lugs-ring terminals 1 0.23 in² (150 mm²) Power circuit connector 1 0.23 in² (150 mm²) Power circuit bolted connection
Tightening Torque	Control circuit 10.62 lbf.in (1.2 N.m) Power circuit 159.31 lbf.in (18 N.m)
Mounting Support	Plate
Heat Dissipation	18…24 W
Standards	EN 60947-1 IEC 60947-4-1 EN 60947-4-1 IEC 60947-1 JIS C8201-4-1
Product Certifications	LROS (Lloyds register of shipping) DNV CB CCC ABS UL RINA RMRoS BV
Compatibility Code	LC1F
Control Circuit Type	AC 60 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	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	6.85 in (174 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	10.25 lb(US) (4.65 kg)

Ordering and shipping details

Category	22336-CTR,F-LINE,AC,OPEN,NONREV
Discount Schedule	I12
Gtin	3389110459913
Returnability	No
Country Of Origin	CZ

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	8.66 in (22 cm)
Package 1 Width	7.87 in (20 cm)
Package 1 Length	9.45 in (24 cm)
Package 1 Weight	11.33 lb(US) (5.14 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 EU RoHS Declaration
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