Product data sheet

Specifications





TeSys F contactor - 3P (3 NO) - AC-3 - <= 440 V 250 A - coil 24 V AC

LC1F150B6

! Discontinued on: Mar 15, 2022

! 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	Motor control Resistive load
Utilisation Category	AC-3 AC-1
Poles Description	3P
[Ue] Rated Operational Voltage	<= 690 V AC 50/60 Hz <= 460 V DC
[Uc] Control Circuit Voltage	24 V AC 60 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	75 kW at 380400 V AC 50/60 Hz (AC-3) 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) 22 kW at 400 V AC 50/60 Hz (AC-4)
Control Circuit Voltage Limits	Operational 0.851.1 Uc 50/60 Hz 131 °F (55 °C)) Drop-out 0.350.55 Uc 50/60 Hz 131 °F (55 °C))
Mechanical Durability	10 Mcycles
Inrush Power In Va	660 VA, 60 Hz 0.3 68 °F (20 °C))
Hold-In Power Consumption In Va	55 VA, 60 Hz 0.3 68 °F (20 °C))
Maximum Operating Rate	2400 cyc/h 131 °F (55 °C)
Operating Time	2335 ms closing 515 ms opening
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 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 1 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)
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	1216 W
Standards	EN 60947-4-1 IEC 60947-1 JIS C8201-4-1 EN 60947-1 IEC 60947-4-1
Product Certifications	CB UL LROS (Lloyds register of shipping) DNV BV CCC RINA RMROS ABS UKCA
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	тн
Ambient Air Temperature For Operation	-40140 °F (-4060 °C)
Ambient Air Temperature For Storage	-76176 °F (-6080 °C)

140...158 °F (60...70 °C) at Uc

Permissible Ambient Air Temperature Around The Device

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	3389118093898
Returnability	No
Country Of Origin	FR

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	8.27 in (21.0 cm)
Package 1 Width	7.87 in (20.0 cm)
Package 1 Length	9.45 in (24.0 cm)
Package 1 Weight	9.24 lb(US) (4.19 kg)

Contractual warranty

Warranty 18 months

Sustainability Green Premium

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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