

Product data sheet

Specifications



TeSys F nonreversing contactor - 3P - Open - 600V 150A - 120VAC 60Hz Coil

LC1F150G622L

⚠ Discontinued on: Jan 23, 2021

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Main

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	≤ 1000 V AC 50/60 Hz ≤ 460 V DC
[Uc] control circuit voltage	120 V AC 60 Hz
[Ie] rated operational current	250 A (at <104 °F (40 °C)) at ≤ 440 V AC AC-1 150 A (at <131 °F (55 °C)) at ≤ 440 V AC 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
Auxiliary contact composition	2 NO + 2 NC

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	65 kW at 1000 V AC 50/60 Hz (AC-3) 75 kW at 380...400 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 660...690 V AC 50/60 Hz (AC-3) 40 kW at 220...230 V AC 50/60 Hz (AC-3) 22 kW at 400 V AC 50/60 Hz (AC-4)
motor power HP (UL / CSA)	40 hp at 200 V AC 50 hp at 230 V AC 100 hp at 460 V AC 125 hp at 575 V AC
Control circuit voltage limits	Operational 0.85...1.1 U _c 50/60 Hz 131 °F (55 °C) Drop-out 0.35...0.55 U _c 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))
Maximum operating rate	2400 cyc/h 131 °F (55 °C)
Operating time	23...35 ms closing 5...15 ms opening
Connections - terminals	Control circuit screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²)flexible without cable end Control circuit screw clamp terminals 2 0.002...0.006 in ² (1...4 mm ²)flexible without cable end Control circuit screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²)flexible with cable end Control circuit screw clamp terminals 2 0.002...0.004 in ² (1...2.5 mm ²)flexible with cable end Control circuit screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²)solid without cable end Control circuit screw clamp terminals 2 0.002...0.006 in ² (1...4 mm ²)solid without cable end Power circuit bolted connection Power circuit 2 bars 25 x 3 mm Power circuit lugs-ring terminals 1 0.2 in ² (120 mm ²) Power circuit connector 1 0.2 in ² (120 mm ²)
Tightening torque	Control circuit 10.6 lbf.in (1.2 N.m) Power circuit 159.3 lbf.in (18 N.m)
Mounting Support	Plate
Heat dissipation	12...16 W
Standards	EN 60947-4-1 IEC 60947-1 JIS C8201-4-1 IEC 60947-4-1 EN 60947-1
Product Certifications	UL LROS (Lloyds register of shipping) CCC RINA BV RMRoS DNV ABS CB
Hold-in power consumption in VA	55 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C))

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	-40...140 °F (-40...60 °C)
Ambient Air Temperature for Storage	-76...176 °F (-60...80 °C)

Permissible ambient air temperature around the device	140...158 °F (60...70 °C) at Uc
Mechanical robustness	Vibrations contactor open2 Gn, 5...300 Hz Vibrations contactor closed6 Gn, 5...300 Hz Shocks contactor open9 Gn for 11 ms Shocks contactor closed15 Gn for 11 ms
Height	11.9 in (301 mm)
Width	6.4 in (163.5 mm)
Depth	6.7 in (171 mm)
Operating altitude	9842.52 ft (3000 m) without derating

Ordering and shipping details

Category	39997-CANADIAN PRODUCTS
Discount Schedule	NET
GTIN	00785901471622
Returnability	No
Country of origin	US

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1



Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Use Better



Materials and Substances

[EU RoHS Directive](#)

Compliant

Use Longer



Lifetime extension

Repair

No

Use Again



Repack and remanufacture

Circularity Profile

[End of Life Information](#)