

# Product data sheet

Specifications



## TeSys F nonreversing contactor - 3P - Open - 600V 150A - 24VDC Coil

LC1F150BD22L

⚠ Discontinued on: Jul 12, 2021

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**Product availability: Non-Stock - Not normally stocked in distribution facility**

### Main

Range of Product	TeSys F
Product or Component Type	Contactors
Device short name	LC1F
Contactors application	Motor control Resistive load
Utilisation category	AC-4 AC-3 AC-1
Poles description	3P
[Ue] rated operational voltage	$\leq 1000$ V AC 50/60 Hz $\leq 460$ V DC
[Uc] control circuit voltage	24 V DC
[Ie] rated operational current	250 A (at $<104$ °F (40 °C)) at $\leq 440$ V AC AC-1 150 A (at $<131$ °F (55 °C)) at $\leq 440$ 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 $\leq 440$ V 250 A gG at $\leq 440$ 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.

<b>Motor power kW</b>	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)
<b>motor power HP (UL / CSA)</b>	40 hp at 200 V AC 50 hp at 230 V AC 100 hp at 460 V AC 125 hp at 575 V AC
<b>Control circuit voltage limits</b>	Operational 0.85...1.1 U <sub>c</sub> 131 °F (55 °C)) Drop-out 0.15...0.2 U <sub>c</sub> 131 °F (55 °C))
<b>Mechanical durability</b>	10 Mcycles
<b>Inrush power in W</b>	560 W 68 °F (20 °C))
<b>Hold-in power consumption in W</b>	4.5 W 68 °F (20 °C)
<b>Maximum operating rate</b>	2400 cyc/h 131 °F (55 °C)
<b>Operating time</b>	30...40 ms closing 30...50 ms opening
<b>Connections - terminals</b>	Control circuit screw clamp terminals 1 0.002...0.006 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible without cable end Control circuit screw clamp terminals 2 0.002...0.006 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible without cable end Control circuit screw clamp terminals 1 0.002...0.006 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible with cable end Control circuit screw clamp terminals 2 0.002...0.004 in <sup>2</sup> (1...2.5 mm <sup>2</sup> )flexible with cable end Control circuit screw clamp terminals 1 0.002...0.006 in <sup>2</sup> (1...4 mm <sup>2</sup> )solid without cable end Control circuit screw clamp terminals 2 0.002...0.006 in <sup>2</sup> (1...4 mm <sup>2</sup> )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 <sup>2</sup> (120 mm <sup>2</sup> ) Power circuit connector 1 0.2 in <sup>2</sup> (120 mm <sup>2</sup> )
<b>Tightening torque</b>	Control circuit 10.6 lbf.in (1.2 N.m) Power circuit 159.3 lbf.in (18 N.m)
<b>Mounting Support</b>	Plate
<b>Heat dissipation</b>	4.5 W
<b>Standards</b>	IEC 60947-1 EN 60947-1 IEC 60947-4-1 EN 60947-4-1 JIS C8201-4-1
<b>Product Certifications</b>	RMRoS UL DNV LROS (Lloyds register of shipping) CCC CB ABS RINA BV

## Environment

<b>IP degree of protection</b>	IP2X front face with shrouds IEC 60529 IP2X front face with shrouds VDE 0106
<b>Protective treatment</b>	TH
<b>Ambient Air Temperature for Operation</b>	-40...140 °F (-40...60 °C)
<b>Ambient Air Temperature for Storage</b>	-76...176 °F (-60...80 °C)

<b>Permissible ambient air temperature around the device</b>	140...158 °F (60...70 °C) at Uc
<b>Mechanical robustness</b>	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
<b>Height</b>	11.9 in (301 mm)
<b>Width</b>	6.4 in (163.5 mm)
<b>Depth</b>	6.7 in (171 mm)
<b>Operating altitude</b>	9842.52 ft (3000 m) without derating

## Ordering and shipping details

<b>Category</b>	US10NET39997
<b>Discount Schedule</b>	ONET
<b>Returnability</b>	No

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Nbr. of units in pkg.</b>	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](#)