

# Product data sheet

Specifications



## Contact, TeSys F, 3P(3NO), AC-3 ≤440V 150A, 220V AC coil

LC1F150M7

⚠ Discontinued on: Jun 15, 2023

⚠ Discontinued

Product availability: Stock - Normally stocked in distribution facility

## Main

Range	TeSys
Range of Product	TeSys F
Product or Component Type	Contactors
Device short name	LC1F
Contactors application	Resistive load Motor control
Utilisation category	AC-3 AC-1 AC-4
Poles description	3P
[Ue] rated operational voltage	≤ 690 V AC 50/60 Hz ≤ 460 V DC
[Uc] control circuit voltage	220 V AC 40...400 Hz
[Ie] 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.

<b>Motor power kW</b>	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>Control circuit voltage limits</b>	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))
<b>Mechanical durability</b>	10 Mcycles
<b>Inrush power in VA</b>	770 VA, 40...400 Hz 0.9 68 °F (20 °C))
<b>Hold-in power consumption in VA</b>	8.1 VA, 40...400 Hz 0.9 68 °F (20 °C))
<b>Maximum operating rate</b>	2400 cyc/h 131 °F (55 °C)
<b>Operating time</b>	35 ms closing at Uc) 130 ms opening at Uc)
<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 bar 2 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> ) Power circuit bolted connection
<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>	5.9...7.2 W
<b>Contactors coil voltage</b>	220 V AC standard
<b>Standards</b>	EN 60947-4-1 EN 60947-1 IEC 60947-4-1 JIS C8201-4-1 IEC 60947-1
<b>Product Certifications</b>	BV RINA LROS (Lloyds register of shipping) RMRoS ABS CCC CB UL DNV UKCA
<b>Compatibility code</b>	LC1F
<b>Control circuit type</b>	AC 40...400 Hz

## 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>Height</b>	6.7 in (170 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
<b>Net Weight</b>	7.56 lb(US) (3.43 kg)

## Ordering and shipping details

<b>Category</b>	US10I1222336
<b>Discount Schedule</b>	0112
<b>GTIN</b>	3389110350975
<b>Returnability</b>	Yes
<b>Country of origin</b>	CZ

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Nbr. of units in pkg.</b>	1
<b>Package 1 Height</b>	8.071 in (20.500 cm)
<b>Package 1 Width</b>	7.480 in (19.000 cm)
<b>Package 1 Length</b>	9.055 in (23.000 cm)
<b>Package weight(Lbs)</b>	8.918 lb(US) (4.045 kg)
<b>Unit Type of Package 2</b>	P06
<b>Number of Units in Package 2</b>	18
<b>Package 2 Height</b>	21.654 in (55.000 cm)
<b>Package 2 Width</b>	23.622 in (60.000 cm)
<b>Package 2 Length</b>	31.496 in (80.000 cm)
<b>Package 2 Weight</b>	182.591 lb(US) (82.822 kg)

## Contractual warranty

<b>Warranty (in months)</b>	18
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## 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 >](#)



### Environmental footprint

Carbon footprint (kg CO2 eq, Total Life cycle) 552

Environmental Disclosure [Product Environmental Profile](#)

## Use Better



### Materials and Substances

Packaging made with recycled cardboard Yes

Packaging without single use plastic No

[EU RoHS Directive](#) Compliant with Exemptions

SCIP Number B2d4179a-eb65-40a3-a1ef-d9a33060486f

REACH Regulation [REACH Declaration](#)

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](http://www.P65Warnings.ca.gov)

## Use Longer



### Lifetime extension

Repair No

## Use Again



### Repack and remanufacture

Circularity Profile [End of Life Information](#)

Take-back No

WEEE Label  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.