

Product data sheet

Specifications



TeSys F contactor - 3P (3 NO) - AC-3 - <= 440 V 250 A - coil 220 V AC

LC1F150M5

❗ Discontinued on: 17 February 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-3 AC-4 AC-1
Poles description	3P
[Ue] rated operational voltage	<= 690 V AC 50/60 Hz <= 460 V DC
[Uc] control circuit voltage	220 V AC 50 Hz
[Ie] rated operational current	250 A 104 °F (40 °C) <= 440 V AC-1 150 A 131 °F (55 °C) <= 440 V AC-3

Complementary

[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	250 A 104 °F (40 °C)
Rated breaking capacity	1200 A 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 <= 440 V 250 A gG <= 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

Motor power kW	75 kW 380...400 V AC 50/60 Hz AC-3) 80 kW 415 V AC 50/60 Hz AC-3) 80 kW 440 V AC 50/60 Hz AC-3) 90 kW 500 V AC 50/60 Hz AC-3) 100 kW 660...690 V AC 50/60 Hz AC-3) 40 kW 220...230 V AC 50/60 Hz AC-3) 22 kW 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	550 VA, 50 Hz 0.3 68 °F (20 °C))
Hold-in power consumption in VA	45 VA, 50 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 0.00...0.01 in ² (1...4 mm ²)flexible without cable end Control circuit screw clamp terminals 2 0.00...0.01 in ² (1...4 mm ²)flexible without cable end Control circuit screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²)flexible with cable end Control circuit screw clamp terminals 2 0.00...0.00 in ² (1...2.5 mm ²)flexible with cable end Control circuit screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²)solid without cable end Control circuit screw clamp terminals 2 0.00...0.01 in ² (1...4 mm ²)solid without cable end Power circuit bar 2 25 x 3 mm Power circuit lugs-ring terminals 1 0.19 in ² (120 mm ²) Power circuit connector 1 0.19 in ² (120 mm ²) 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	12...16 W
Standards	EN 60947-4-1 IEC 60947-1 JIS C8201-4-1 IEC 60947-4-1 EN 60947-1
Product Certifications	LROS (Lloyds register of shipping) RINA BV RMRoS UL CB DNV ABS CCC
Compatibility code	LC1F
Control circuit type	AC 50 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	-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
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	22336-CTR,F-LINE,AC,OPEN,NONREV
Discount Schedule	112
GTIN	3389110122268
Returnability	No
Country of origin	CZ

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	8.03 in (20.4 cm)
Package 1 Width	5.35 in (13.6 cm)
Package 1 Length	8.82 in (22.4 cm)
Package 1 Weight	8.97 lb(US) (4.07 kg)

Offer Sustainability



Sustainable offer status	Green Premium product
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
REACH Regulation	REACH Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information.
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Contractual warranty

Warranty	18 months
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Recommended replacement(s)

LC1F150M5 may be replaced by any of the following products:

1x		Contactor, high power, TeSys Giga, advanced version, 3 pole/NO, AC-3 <=440V 150A, 200-500VAC/DC coil LC1G150LSEA
1x		Contactor, high power, TeSys Giga, standard version, 3 pole/NO, AC-3 <=440V 150A, 100-250VAC/DC coil LC1G150KUEN