



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

LC1F150M5

Discontinued on: 30 April 2022

① Discontinued

M	aı	n

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
[le] rated operational current	250 A (at <40 °C) at <= 440 V AC-1 150 A (at <55 °C) at <= 440 V AC-3

Complementary	
[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	250 A (at 40 °C)
Rated breaking capacity	1200 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	1200 A 40 °C - 10 s 700 A 40 °C - 30 s 600 A 40 °C - 1 min 450 A 40 °C - 3 min 350 A 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 conforming to IEC 60947-4-1 1500 V conforming to 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 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 (at 55 °C) Drop-out: 0.350.55 Uc 50/60 Hz (at 55 °C)
Mechanical durability	10 Mcycles
Inrush power in VA	550 VA, 50 Hz cos phi 0.3 (at 20 °C)
Hold-in power consumption in VA	45 VA, 50 Hz cos phi 0.3 (at 20 °C)
Maximum operating rate	2400 cyc/h 55 °C
Operating time	2335 ms closing 515 ms opening
Connections - terminals	Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²solid without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²solid without cable end Power circuit: bar 2 cable(s) - busbar cross section: 25 x 3 mm Power circuit: lugs-ring terminals 1 cable(s) 120 mm² Power circuit: connector 1 cable(s) 120 mm² Power circuit: bolted connection
Tightening torque	Control circuit: 1.2 N.m Power circuit: 18 N.m
Mounting support	Plate
Heat dissipation	1216 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 at 50 Hz
Environment	
IP degree of protection	IP2X front face with shrouds conforming to IEC 60529 IP2X front face with shrouds conforming to VDE 0106
Protective treatment	TH
Ambient air temperature for operation	-4060 °C
Ambient air temperature for storage	-6080 °C
Permissible ambient air temperature around the device	6070 °C at Uc
Height	170 mm
Width	163.5 mm
Depth	171 mm
Operating altitude	3000 m without derating
Net weight	3.43 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	20.4 cm
Package 1 Width	13.6 cm
Package 1 Length	22.4 cm
Package 1 Weight	4.07 kg

Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
EU RoHS Directive	Compliant EU RoHS Declaration	
Mercury free	Yes	
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information	
RoHS exemption information	Yes	
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	
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	

Contractual warranty

Warranty 18 months

Recommended replacement(s)

LC1F150M5 may be replaced by any of the following products:





High power contactor, TeSys Giga, 3 pole (3NO), AC-3 <=440V 150A, advanced version, 200...500V wide band AC/DC coil

LC1G150LSEA

1x



High power contactor, TeSys Giga, 3 pole (3NO), AC-3 <=440V 150A, standard version, 100...250V wide band AC/DC coil

LC1G150KUEN