



TeSys F contactor - 3P (3 NO) -AC-3 - <= 440 V 150 A - coil 115 V AC

LC1F150Q7

To be discontinued on: 31 December 2023

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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-1 AC-4 AC-3
Poles description	3P
[Ue] rated operational voltage	<= 690 V AC 50/60 Hz <= 460 V DC
[Uc] control circuit voltage	380 V AC 40400 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 40400 Hz (at 55 °C) Drop-out: 0.20.55 Uc 40400 Hz (at 55 °C)
Mechanical durability	10 Mcycles
Inrush power in VA	770 VA, 40400 Hz cos phi 0.9 (at 20 °C)
Hold-in power consumption in VA	8.1 VA, 40400 Hz cos phi 0.9 (at 20 °C)
Maximum operating rate	2400 cyc/h 55 °C
Operating time	35 ms closing (at Uc) 130 ms opening (at Uc)
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	5.97.2 W
Standards	IEC 60947-4-1 JIS C8201-4-1 EN 60947-4-1 EN 60947-1 IEC 60947-1
Product certifications	DNV CCC ABS BV RINA LROS (Lloyds register of shipping) RMRoS UL CB UKCA
Compatibility code	LC1F
Control circuit type	AC at 40400 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	21.0 cm	
Package 1 Width	20.0 cm	
Package 1 Length	24.0 cm	
Package 1 Weight	4.19 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	

Product Environmental Profile

never end up in rubbish bins

information go to www.P65Warnings.ca.gov

End of Life Information

Contractual warranty

Environmental Disclosure

California proposition 65

Circularity Profile

WEEE

Warranty 18 months

Recommended replacement(s)

LC1F150Q7 is replaced by:



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

The product must be disposed on European Union markets following specific waste collection and

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

LC1G150LSEA