Product datasheet Characteristics

LC1F150

TeSys F contactor - 3P(3 NO)-AC-3 <= 440V 150A with coil LX9 - 24...575V AC 40/400Hz, LX4 - 24...460V DC, LXE - 100...250V AC 50/60Hz or 100...380V DC



Price*: 327.26 GBP



Main

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Range	TeSys	4
Product name	TeSys F	<u>.</u>
Product or component type	Contactor	<u>.</u>
Device short name	LC1F	
Contactor application	Resistive load Motor control	
Utilisation category	AC-1 AC-4 AC-3	2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Poles description	3P	7
Power pole contact composition	3 NO	
[Ue] rated operational voltage	<= 690 V AC 50/60 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	
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) 40 kW at 220240 V AC 50/60 Hz (AC-3) 100 kW at 660690 V AC 50/60 Hz (AC-3) 22 kW at 400 V AC 50/60 Hz (AC-4)	

Complementary

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[Uc] control circuit voltage	24575 V AC 40400 Hz with LX1/LX9 coil 24460 V DC with LX4 coil 100250 V AC 50/60 Hz with LXE coil 100380 V DC with LXE coil	- Tris
[Uimp] rated impulse withstand voltage	8 kV	
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Overvoltage category	III
[lth] conventional free air thermal current	250 A (at 40 °C)
Irms rated making capacity	1500 A conforming to IEC 60947-4-1
Rated breaking capacity	1200 A conforming to IEC 60947-4-1
[lcw] 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
Control circuit voltage limits	Operational: 0.851.1 Uc AC 40400 Hz with LX1/LX9 coil Drop-out: 0.20.55 Uc AC 40400 Hz with LX1/LX9 coil Operational: 0.851.1 Uc DC with LX4 coil Drop-out: 0.150.2 Uc DC with LX4 coil Operational: 85275 V AC 50/60 Hz with LXE coil Drop-out: 060 V AC 50/60 Hz with LXE coil Operational: 85418 V DC with LXE coil Drop-out: 045 V DC with LXE coil
Heat dissipation	5.97.2 W 2.22.5 W
Operating time	35 ms closing for with LX1/LX9 coil 130 ms opening for with LX1/LX9 coil 3040 ms closing for with LX4 coil 3050 ms opening for with LX4 coil 4080 ms closing for with LXE coil 654 ms opening for with LXE coil
Mounting support	Plate
Standards	IEC 60947-4-1 EN 60947-4-1 IEC 60947-1 EN 60947-1 JIS C8201-4-1
Product certifications	RINA CSA BV RMRoS LROS (Lloyds register of shipping) DNV ABS UL CB
Connections - terminals	Power circuit: lugs-ring terminals 1 cable(s) 120 mm² - busbar cross section: 25 x 3 mm Power circuit: connector 1 cable(s) 120 mm² Power circuit: bar 2 cable(s) Power circuit: bolted connection Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² Control circuit: screw clamp terminals 1 cable(s) 14 mm² Control circuit: screw clamp terminals 2 cable(s) 14 mm² Control circuit: screw clamp terminals 1.0 cable(s) 0.22.5 mm²flexible without cable end Control circuit: screw clamp terminals 1.0 cable(s) 0.252.5 mm²flexible with cable end Control circuit: screw clamp terminals 1.0 cable(s) 0.22.5 mm²solid without cable end
Tightening torque	Power circuit: 18 N.m Control circuit: 1.2 N.m Control circuit: 0.6 N.m
Mechanical durability	10 Mcycles
Inrush power in VA	690855 VA, 40400 Hz cos phi 0.9 (at 20 °C)with LX1/LX9 coil 543665 VA (at 20 °C)with LX4 coil 280310 VA, 50/60 Hz cos phi 0.5 (at 20 °C)with LXE coil

	270320 VA (at 20 °C)with LXE coil
Hold-in power consumption in VA	6.68.1 VA, 40400 Hz cos phi 0.9 (at 20 °C)with LX1/LX9 coil 3.944.83 VA (at 20 °C)with LX4 coil 4.57.0 VA, 50/60 Hz cos phi 0.5 (at 20 °C)with LXE coil 2.54.0 VA (at 20 °C)with LXE coil
Maximum operating rate	2400 cyc/h 55 °C
Compatibility code	LC1F

Environment

Compatibility code

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	-555 °C
Ambient air temperature for storage	-6080 °C
Permissible ambient air temperature around the device	-4070 °C
Mechanical robustness	Vibrations contactor open: 2 Gn, 5300 Hz Vibrations contactor closed: 6 Gn, 5300 Hz Shocks contactor open: 9 Gn for 1/2 sine wave (11 ms) Shocks contactor closed: 15 Gn for 1/2 sine wave (11 ms)
Height	170 mm
Width	163.5 mm
Depth	171 mm
Product weight	3.83 kg

Offer Sustainability

Sustainable offer status	Green Premium product	
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

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Warranty	18 months