

# LC1F150

TeSys F contactor - 3P(3 NO) - AC-3 - <= 440 V 150 A - without coil



## Main

Commercial Status	Commercialised
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-3
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	<= 460 V DC <= 1000 V AC 50/60 Hz
[Ie] rated operational current	150 A (<= 55 °C) at <= 440 V AC AC-3 250 A (<= 40 °C) at <= 440 V AC AC-1
Motor power kW	100 kW at 660...690 V AC 50/60 Hz 40 kW at 220...240 V AC 50/60 Hz 90 kW at 500 V AC 50/60 Hz 80 kW at 440 V AC 50/60 Hz 80 kW at 415 V AC 50/60 Hz 75 kW at 380...400 V AC 50/60 Hz 65 kW at 1000 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	250 A at <= 40 °C
Irms rated making capacity	1500 A AC conforming to IEC 60947-4-1
Rated breaking capacity	1200 kA conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	350 A <= 40 °C 10 min 450 A <= 40 °C 3 min 600 A <= 40 °C 1 min 700 A <= 40 °C 30 s 1200 A <= 40 °C 10 s
Associated fuse rating	250 A gG at <= 440 V 160 A aM at <= 440 V
Average impedance	0.35 mOhm at 50 Hz - Ith 250 A
[Ui] rated insulation voltage	1500 V conforming to VDE 0110 group C 1000 V conforming to IEC 60947-4-1
Power dissipation per pole	8 W AC-3 22 W AC-1
Mounting support	Plate
Standards	EN 60947-1 EN 60947-4-1 IEC 60947-1 IEC 60947-4-1 JEM 1038

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Product certifications	BV CCC CSA DNV GL RINA RMRoS UL LROS
Connections - terminals	Power circuit: bar 2 x ( 25 x 3 mm) Power circuit: connector 1 cable(s) 120 mm <sup>2</sup> Power circuit: lugs-ring terminals 1 cable(s) 120 mm <sup>2</sup> Control circuit: screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end
Tightening torque	Power circuit: 18 N.m Control circuit: 1.2 N.m

## Environment

IP degree of protection	IP2x front face with shrouds (ordered separately) conforming to VDE 0106 IP2x front face with shrouds (ordered separately) conforming to IEC 60529
Protective treatment	TH
Ambient air temperature for operation	-5...55 °C
Ambient air temperature for storage	-60...80 °C
Permissible ambient air temperature around the device	-40...70 °C
Operating altitude	3000 m without derating in temperature
Mechanical robustness	Shocks contactor closed 15 Gn for 11 ms Shocks contactor open 9 Gn for 11 ms Vibrations contactor closed 6 Gn, 5...300 Hz Vibrations contactor open 2 Gn, 5...300 Hz
Height	170 mm
Width	163.5 mm
Depth	171 mm
Product weight	3.83 kg

## RoHS compliance

RoHS EUR status	Compliant
RoHS EUR conformity date(YYWW)	0843

## Contractual warranty

Period	18 months
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