

# LC2F150

TeSys F reversing 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	Reversing contactor
Device short name	LC2F
Contactor application	Motor control Resistive load
Utilisation category	AC-1 AC-3
Device presentation	Preamsembled with reversing power busbar
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	40 kW at 220...240 V AC 50/60 Hz 80 kW at 415 V AC 50/60 Hz 75 kW at 380...400 V AC 50/60 Hz
Auxiliary contact composition	1 NO
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
Interlocking type	Mechanical
Mounting support	Plate
Standards	EN 60947-1 EN 60947-4-1 IEC 60947-1 IEC 60947-4-1 JEM 1038
Product certifications	BV CCC CSA DNV GL RINA RMRoS UL LROS

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Connections - terminals	Power circuit: bar 2 x ( 25 x 3 mm) 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 Power circuit: connector 1 cable(s) 120 mm <sup>2</sup>
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
Fire resistance	850 °C conforming to IEC 60695-2-1
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	345 mm
Depth	171 mm
Product weight	7.56 kg

## Contractual warranty

Period	18 months
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