

# LC2F115

TeSys F reversing contactor - 3P(3 NO) AC-3  
≤ 440 V 115 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	115 A (≤ 55 °C) at ≤ 440 V AC AC-3 200 A (≤ 40 °C) at ≤ 440 V AC AC-1
Motor power kW	59 kW at 440 V AC 50/60 Hz 55 kW at 380...400 V AC 50/60 Hz
Auxiliary contact composition	1 NO
Overvoltage category	III
[Ith] conventional free air thermal current	200 A at ≤ 40 °C
Irms rated making capacity	1150 A AC conforming to IEC 60947-4-1
Rated breaking capacity	920 kA conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	320 A ≤ 40 °C 10 min 400 A ≤ 40 °C 3 min 520 A ≤ 40 °C 1 min 640 A ≤ 40 °C 30 s 1100 A ≤ 40 °C 10 s
Associated fuse rating	200 A gG at ≤ 440 V 125 A aM at ≤ 440 V
Average impedance	0.37 mOhm at 50 Hz - Ith 200 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	5 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 ( 20 x 3 mm) 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: lugs-ring terminals 1 cable(s) 95 mm <sup>2</sup> Power circuit: connector 1 cable(s) 95 mm <sup>2</sup>
Tightening torque	Control circuit: 1.2 N.m Power circuit: 10 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	162 mm
Width	345 mm
Depth	171 mm
Product weight	7.56 kg

## Contractual warranty

Period	18 months
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