

LC2F225

TeSys F reversing contactor - 3P(3 NO) AC-3
≤ 440 V 225 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	225 A (≤ 55 °C) at ≤ 440 V AC AC-3 315 A (≤ 40 °C) at ≤ 440 V AC AC-1
Motor power kW	129 kW at 660...690 V AC 50/60 Hz 129 kW at 500 V AC 50/60 Hz 110 kW at 440 V AC 50/60 Hz 110 kW at 415 V AC 50/60 Hz 110 kW at 380...400 V AC 50/60 Hz 100 kW at 1000 V AC 50/60 Hz
Auxiliary contact composition	1 NO
Overvoltage category	III
[Ith] conventional free air thermal current	315 A at ≤ 40 °C
Irms rated making capacity	2250 A AC conforming to IEC 60947-4-1
Rated breaking capacity	1800 kA conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	440 A ≤ 40 °C 10 min 560 A ≤ 40 °C 3 min 850 A ≤ 40 °C 1 min 1000 A ≤ 40 °C 30 s 1800 A ≤ 40 °C 10 s
Associated fuse rating	250 A aM at ≤ 440 V 315 A gG at ≤ 440 V
Average impedance	0.32 mOhm at 50 Hz - Ith 315 A
[Ui] rated insulation voltage	1500 V conforming to VDE 0110 group C 1000 V conforming to IEC 60947-4-1
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 (32 x 4 mm) Control circuit: screw clamp terminals 2 cable(s) 1...4 mm ² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm ² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm ² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² - cable stiffness: flexible - without cable end Power circuit: connector 1 cable(s) 240 mm ²
Tightening torque	Power circuit: 35 N.m Control circuit: 1.2 N.m

Environment

IP degree of protection	IP20 front face with shrouds (ordered separately) conforming to VDE 0106 IP20 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 open 7 Gn for 11 ms Vibrations contactor closed 5 Gn, 5...300 Hz Shocks contactor closed 15 Gn for 11 ms Vibrations contactor open 2 Gn, 5...300 Hz
Height	197 mm
Width	357 mm
Depth	181 mm
Product weight	14.2 kg

Contractual warranty

Period	18 months
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