

LC2F225M7

TeSys F reversing contactor - 3P(3 NO) AC-3 <= 440 V 225 A 220 V AC 40...400 Hz



Main

Range	TeSys
Product name	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	Preassembled with reversing power busbar
Poles description	3P
Pole contact composition	3 NO
[Ue] rated operational voltage	<= 1000 V AC 50/60 Hz <= 460 V DC
[Ie] rated operational current	315 A (<= 40 °C) at <= 440 V AC AC-1 225 A (<= 40 °C) at <= 440 V AC AC-3
Motor power kW	100 kW at 1000 V AC 50/60 Hz 110 kW at 380...400 V AC 50/60 Hz 110 kW at 415 V AC 50/60 Hz 110 kW at 440 V AC 50/60 Hz 129 kW at 500 V AC 50/60 Hz 63 kW at 220...240 V AC 50/60 Hz 129 kW at 660...690 V AC 50/60 Hz
Control circuit type	AC 40...400 Hz
Control circuit voltage	220 V AC 40...400 Hz
[Uimp] rated impulse withstand voltage	8 kV
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	1800 A <= 40 °C 10 s 1000 A <= 40 °C 30 s 850 A <= 40 °C 1 min 560 A <= 40 °C 3 min 440 A <= 40 °C 10 min
Associated fuse rating	315 A gG at <= 440 V 250 A aM at <= 440 V
Average impedance	0.32 mOhm at 50 Hz - Ith 315 A
[Ui] rated insulation voltage	1000 V conforming to IEC 60947-4-1 1500 V conforming to VDE 0110 group C
Power dissipation per pole	16 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

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UL
LROS

Connections - terminals	Control circuit : screw clamp terminals 2 cable(s) 1...2.5 mm ² - cable stiffness: flexible - with cable end Power circuit : connector 1 cable(s) 185 mm ² Control circuit : screw clamp terminals 1 cable(s) 1...4 mm ² - cable stiffness: flexible - without 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 - with 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...4 mm ² - cable stiffness: solid - without cable end Power circuit : lugs-ring terminals 1 cable(s) 185 mm ² Power circuit : bar 2 x (32 x 4 mm)
Tightening torque	Power circuit: 35 N.m Control circuit: 1.2 N.m
Operating time	20...35 ms closing 7...15 ms opening
Mechanical durability	10 Mcycles
Operating rate	2400 cyc/h at <= 55 °C

Complementary

Control circuit voltage limits	0.85...1.1 U _c at 55 °C operational 50/60 Hz 0.35...0.55 U _c at 55 °C drop-out 50/60 Hz
Inrush power in VA	At 20 °C (cos φ 0.3) 50 Hz At 20 °C (cos φ 0.3) 60 Hz
Hold-in power consumption in VA	55 VA at 20 °C (cos φ 0.3) 50 Hz 66 VA at 20 °C (cos φ 0.3) 60 Hz
Heat dissipation	18...24 W

Environment

IP degree of protection	IP20 front face with shrouds (ordered separately) conforming to IEC 60529 IP20 front face with shrouds (ordered separately) conforming to VDE 0106
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	Vibrations contactor open 2 Gn, 5...300 Hz Shocks contactor closed 15 Gn for 11 ms Vibrations contactor closed 5 Gn, 5...300 Hz Shocks contactor open 7 Gn for 11 ms
Height	197 mm
Width	357 mm
Depth	181 mm
Product weight	11.1 kg