

LC2D65P7

reverzibilni sklopnik TeSys LC2-D-3 pola-AC-3
440 V 65 A-zavojnica 230 V AC



Glavno

Range	TeSys
Product name	TeSys D
Product or component type	Reversing contactor
Device short name	LC2D
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 25...400 Hz for power circuit
[Ie] rated operational current	65 A (<= 60 °C) at <= 440 V AC AC-3 for power circuit 80 A (<= 40 °C) at <= 440 V AC AC-1 for power circuit
Motor power kW	30 kW at 380...400 V AC 50/60 Hz 37 kW at 415 V AC 50/60 Hz 37 kW at 440 V AC 50/60 Hz 37 kW at 500 V AC 50/60 Hz 37 kW at 660...690 V AC 50/60 Hz 18.5 kW at 220...230 V AC 50/60 Hz
Motor power hp	5 hp at 115 V AC 50/60 Hz for 1 phase motors 20 hp at 200/208 V AC 50/60 Hz for 3 phases motors 50 hp at 575...600 V AC 50/60 Hz for 3 phases motors 20 hp at 220...240 V AC 50/60 Hz for 3 phases motors 50 hp at 460...480 V AC 50/60 Hz for 3 phases motors 10 hp at 230...240 V AC 50/60 Hz for 1 phase motors
Control circuit type	AC 50/60 Hz
[Uc] control circuit voltage	230 V AC 50/60 Hz
Auxiliary contact composition	1 NO + 1 NC
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947
Overvoltage category	III
[Ith] conventional free air thermal current	10 A at <= 60 °C for signalling circuit
Irms rated making capacity	140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1 1000 A at 440 V for power circuit conforming to IEC 60947-4
Rated breaking capacity	1000 A at 500 V conforming to IEC 60947 1000 A at 220/415/440 V for power circuit conforming to IEC 60947 630 A at 690 V conforming to IEC 60947
[Icw] rated short-time withstand current	100 A 1 s signalling circuit 120 A 500 ms signalling circuit 140 A 100 ms signalling circuit 520 A <= 40 °C 10 s power circuit

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	900 A <= 40 °C 1 s power circuit 110 A <= 40 °C 10 min power circuit 260 A <= 40 °C 1 min power circuit
Associated fuse rating	10 A gGfor signalling circuit conforming to IEC 60947-5-1
Average impedance	1.00 mOhm at 50 Hz - Ith 80 A for power circuit
[Ui] rated insulation voltage	1000 V for power circuit conforming to IEC 60947-4-1 600 V for power circuit certifications CSA 600 V for power circuit certifications UL 690 Vfor signalling circuit conforming to IEC 60947-1 600 Vfor signalling circuit certifications CSA 600 Vfor signalling circuit certifications UL
Electrical durability	1.4 Mcycles 80 A AC-1 <= 440 V 1.5 Mcycles 65 A AC-3 <= 440 V
Power dissipation per pole	4.2 W AC-3 6.4 W AC-1
Protective cover	With
Interlocking type	Mechanical
Mounting support	Plate Rail
Standards	UL 508 CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1
Product certifications	UL CSA CCC EAC GL BV DNV RINA
Connections - terminals	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 - 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 : screw clamp terminals 1 cable(s) 2.5...25 mm ² - cable stiffness: solid - without cable end Power circuit : screw clamp terminals 2 cable(s) 2.5...16 mm ² - cable stiffness: flexible - without cable end Power circuit : screw clamp terminals 2 cable(s) 2.5...10 mm ² - cable stiffness: flexible - with cable end Power circuit : screw clamp terminals 1 cable(s) 2.5...25 mm ² - cable stiffness: flexible - without cable end Power circuit : screw clamp terminals 2 cable(s) 2.5...16 mm ² - cable stiffness: solid - without cable end Power circuit : screw clamp terminals 1 cable(s) 2.5...25 mm ² - cable stiffness: flexible - with cable end
Tightening torque	Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2

Power circuit: 5 N.m - on screw clamp terminals
 Power circuit: 5 N.m - on screw clamp terminals -
 with screwdriver flat Ø 8 mm

Operating time	20...26 ms closing 8...12 ms opening
Safety reliability level	B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1
Mechanical durability	16000000 cycles
Operating rate	3600 cyc/h at ≤ 55 °C

Komplementarno

Coil technology	Built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.85...1.1 Uc operational at 55 °C, AC 60 Hz 0.3...0.6 Uc drop-out at 55 °C, AC 60 Hz 0.3...0.6 Uc drop-out at 55 °C, AC 50/60 Hz 0.8...1.1 Uc operational at 55 °C, AC 50/60 Hz
Inrush power in VA	200 VA at 20 °C (cos φ 0.75) 50 Hz 220 VA at 20 °C (cos φ 0.75) 60 Hz
Heat dissipation	6...10 W at 50/60 Hz
Auxiliary contacts type	Type mechanically linked (1 NO + 1 NC) conforming to IEC 60947-5-1 Type mirror contact (1 NC) conforming to IEC 60947-4-1
Signalling circuit frequency	25...400 Hz
Minimum switching current	5 mA for signalling circuit
Minimum switching voltage	17 V for signalling circuit
Non-overlap time	1.5 ms on de-energisation (between NC and NO contact) 1.5 ms on energisation (between NC and NO contact)
Insulation resistance	> 10 MOhm for signalling circuit

Okolina

IP degree of protection	IP20 front face conforming to IEC 60529
protective treatment	TH conforming to IEC 60068-2-30
pollution degree	3
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 at Uc
operating altitude	3000 m without derating in temperature
fire resistance	960 °C conforming to IEC 60695-2-1
flame retardance	V1 conforming to UL 94
mechanical robustness	Vibrations contactor open 2 Gn, 5...300 Hz Shocks contactor open 8 Gn for 11 ms Vibrations contactor closed 3 Gn, 5...300 Hz Shocks contactor closed 10 Gn for 11 ms
height	127 mm
width	165 mm
depth	142 mm
product weight	2.4 kg

Offer Sustainability

Green Premium product	Green Premium product
Compliant - since 0707 - Schneider Electric declaration of conformity	Compliant - since 0707 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Available	Available
Available	Available