



### 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	110 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 900 A <= 40 °C 1 s power circuit 110 A <= 40 °C 10 min power circuit

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	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 - lth 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 <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 - without 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 - with 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...4 mm <sup>2</sup> - cable stiffness: solid - without cable end Power circuit : screw clamp terminals 1 cable(s) 2.5...25 mm <sup>2</sup> - cable stiffness: solid - without cable end Power circuit : screw clamp terminals 2 cable(s) 2.5...16 mm <sup>2</sup> - cable stiffness: flexible - without cable end Power circuit : screw clamp terminals 2 cable(s) 2.5...10 mm <sup>2</sup> - cable stiffness: flexible - with cable end Power circuit : screw clamp terminals 1 cable(s) 2.5...25 mm <sup>2</sup> - cable stiffness: flexible - without cable end Power circuit : screw clamp terminals 2 cable(s) 2.5...16 mm <sup>2</sup> - cable stiffness: solid - without cable end Power circuit : screw clamp terminals 1 cable(s) 2.5...25 mm <sup>2</sup> - 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 U <sub>c</sub> operational at 55 °C, AC 60 Hz 0.3...0.6 U <sub>c</sub> drop-out at 55 °C, AC 60 Hz 0.3...0.6 U <sub>c</sub> drop-out at 55 °C, AC 50/60 Hz 0.8...1.1 U <sub>c</sub> 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 U <sub>c</sub>
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 0847 - Schneider Electric declaration of conformity	Compliant - since 0847 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Available	Available
Available	Available