



Principal

Gama de producto	TeSys D
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Product name	TeSys D
Tipo de producto o componente	Contactor
Device short name	LC1D
Contactor application	Motor control Resistive load
Categoría de empleo	AC-3 AC-1 AC-4
Poles description	3P
Pole contact composition	3 NO
[Ue] tensión de funcionamiento nominal	<= 300 V CC para power circuit <= 690 V AC 25...400 Hz para power circuit
[Ie] intensidad de funcionamiento nominal	40 A (<= 60 °C) at <= 440 V AC AC-3 for power circuit 60 A (<= 60 °C) at <= 440 V AC AC-1 for power circuit
Motor power kW	18.5 kW at 380...400 V AC 50/60 Hz AC-3 22 kW at 500 V AC 50/60 Hz AC-3 30 kW at 660...690 V AC 50/60 Hz AC-3 11 kW at 220...230 V AC 50/60 Hz AC-3 9 kW at 400 V AC 50/60 Hz AC-4 22 kW at 415...440 V AC 50/60 Hz AC-3
Motor power hp	5 hp at 230/240 V AC 50/60 Hz for 1 phase motors 10 hp at 230/240 V AC 50/60 Hz for 3 phases motors 30 hp at 575/600 V AC 50/60 Hz for 3 phases motors 3 hp a 115 V AC 50/60 Hz para 1 phase motors 10 hp at 200/208 V AC 50/60 Hz for 3 phases motors 30 hp at 460/480 V AC 50/60 Hz for 3 phases motors
Control circuit type	AC 50/60 Hz
[Uc] control circuit voltage	48 V AC 50/60 Hz
Auxiliary contact composition	1 NO + 1 NC
[Uimp] rated impulse withstand voltage	Conforming to IEC 60947
Overvoltage category	III
[Ith] conventional free air thermal current	60 A at <= 60 °C for power circuit 10 A at <= 60 °C for signalling circuit
Irms rated making capacity	800 A at 440 V for power circuit conforming to IEC 60947 140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1
Rated breaking capacity	800 A at 440 V for power circuit conforming to IEC 60947

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[Icw] rated short-time withstand current	100 A 1 s signalling circuit 120 A 500 ms signalling circuit 140 A 100 ms signalling circuit 320 A ≤ 40 °C 10 s power circuit 720 A ≤ 40 °C 1 s power circuit 72 A ≤ 40 °C 10 min power circuit 165 A ≤ 40 °C 1 min power circuit
Associated fuse rating	80 A gG at ≤ 690 V coordination type 1 for power circuit 80 A gG at ≤ 690 V coordination type 2 for power circuit 10 A gG for signalling circuit conforming to IEC 60947-5-1
Average impedance	1.5 mOhm at 50 Hz - Ith 60 A for power circuit
[Ui] rated insulation voltage	600 V for power circuit certifications CSA 600 V for power circuit certifications UL 690 V for power circuit conforming to IEC 60947-4-1 690 V for signalling circuit conforming to IEC 60947-1 600 V for signalling circuit certifications CSA 600 V for signalling circuit certifications UL
Durabilidad eléctrica	1.5 Mcycles 40 A AC-3 at Ue ≤ 440 V 1.4 Mcycles 60 A AC-1 at Ue ≤ 440 V
Power dissipation per pole	5.4 W AC-1 2.4 W AC-3
Protective cover	With
Mounting support	Plate Rail
Normas	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508
Certificaciones de producto	CCC CSA GOST UL
Conexiones - terminales	Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm² - cable stiffness: solid - without cable end Power circuit : screw connection 2 cable(s) 1...25 mm² - cable stiffness: flexible - with cable end Power circuit : screw connection 2 cable(s) 1...25 mm² - cable stiffness: solid - without cable end Power circuit : screw connection 2 cable(s) 1...25 mm² - cable stiffness: flexible - without cable end Power circuit : screw connection 1 cable(s) 1...35 mm² - cable stiffness: solid - without cable end Power circuit : screw connection 1 cable(s) 1...35 mm² - cable stiffness: flexible - without cable end Power circuit : screw connection 1 cable(s) 1...35 mm² - 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: 8 N.m - on EverLink BTR screw connectors - cable 25...35 mm² hexagonal 4 mm Power circuit : 5 N.m - on EverLink BTR screw connectors - cable 1...25 mm² hexagonal 4 mm
Operating time	12...26 ms closing 4...19 ms opening

Safety reliability level	B10d = 1369863 Ciclos contactor with nominal load conforme a EN/ISO 13849-1 B10d = 20000000 Ciclos contactor with mechanical load conforme a EN/ISO 13849-1
Mechanical durability	6 Mcycles
Operating rate	3600 cyc/h at <= 60 °C

Complementos

Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.3...0.6 Uc drop-out at 60 °C, AC 50/60 Hz 0.8...1.1 Uc operational at 60 °C, AC 50 Hz 0.85...1.1 Uc operational at 60 °C, AC 60 Hz
Inrush power in VA	140 VA at 20 °C (cos ϕ 0.75) 60 Hz 160 VA at 20 °C (cos ϕ 0.75) 50 Hz
Hold-in power consumption in VA	13 VA at 20 °C (cos ϕ 0.3) 60 Hz 15 VA at 20 °C (cos ϕ 0.3) 50 Hz
Heat dissipation	4...5 W at 50/60 Hz
Auxiliary contacts type	Type mechanically linked (1 NO + 1 NC) conforme a IEC 60947-5-1 Type mirror contact (1 NC) conforme a 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
Power range	7...11 kW 200...240 V 3 phases 15...25 kW 380...440 V 3 phases 15...25 kW 480...500 V 3 phases
Motor starter type	Direct on-line contactor
Contactor coil voltage	48 V AC standard

Ambiente

IP degree of protection	IP20 front face conforming to IEC 60529
Protective treatment	TH conforming to IEC 60068-2-30
Pollution degree	3
Temperatura ambiente de trabajo	-5...60 °C
Temperatura ambiente de almacenamiento	-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	850 °C conforming to IEC 60695-2-1
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Vibrations contactor open 2 Gn, 5...300 Hz Vibrations contactor closed 4 Gn, 5...300 Hz Shocks contactor open 10 Gn for 11 ms Shocks contactor closed 15 Gn for 11 ms
Altura	122 mm
Anchura	55 mm
Profundidad	120 mm
Peso del producto	0.85 kg

Oferta sustentable

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0001 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available Perfil Medioambiental
Product end of life instructions	Available Manual De Gestión Residuos

Garantia contractual

Warranty period	18 months
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