



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	Resistive load Motor control
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	38 A (<= 60 °C) at <= 440 V AC AC-3 for power circuit 50 A (<= 60 °C) at <= 440 V AC AC-1 for power circuit
Motor power kW	18.5 kW at 500 V AC 50/60 Hz AC-3 18.5 kW at 660...690 V AC 50/60 Hz AC-3 7.5 kW at 400 V AC 50/60 Hz AC-4 18.5 kW at 380...400 V AC 50/60 Hz AC-3 18.5 kW at 415...440 V AC 50/60 Hz AC-3 9 kW at 220...230 V AC 50/60 Hz AC-3
Motor power hp	10 hp at 230/240 V AC 50/60 Hz for 3 phases motors 10 hp at 200/208 V AC 50/60 Hz for 3 phases motors 5 hp at 240 V AC 50/60 Hz for 1 phase motors 20 hp at 480 V AC 50/60 Hz for 3 phases motors 25 hp at 600 V AC 50/60 Hz for 3 phases motors
Control circuit type	AC 50/60 Hz
[Uc] control circuit voltage	24 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	50 A at <= 60 °C for power circuit 10 A at <= 60 °C for signalling circuit
Irms rated making capacity	550 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	550 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	150 A <= 40 °C 1 min power circuit 310 A <= 40 °C 10 s power circuit 430 A <= 40 °C 1 s power circuit 60 A <= 40 °C 10 min power circuit 100 A 1 s signalling circuit 120 A 500 ms signalling circuit 140 A 100 ms signalling circuit

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Associated fuse rating	63 A gG at <= 690 V coordination type 1 for power circuit 63 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	2 mOhm at 50 Hz - Ith 50 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	1.4 Mcycles 50 A AC-1 at Ue <= 440 V 1.4 Mcycles 38 A AC-3 at Ue <= 440 V
Power dissipation per pole	3 W AC-3 5 W AC-1
Protective cover	With
Mounting support	Rail Plate
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	RINA DNV CCC BV GL CSA UL GOST LROS (Lloyds register of shipping)
Conexiones - terminales	Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm ² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 1 cable(s) 1.5...10 mm ² - cable stiffness: solid - without 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...10 mm ² - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 2 cable(s) 2.5...10 mm ² - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 1 cable(s) 1...10 mm ² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 2 cable(s) 1.5...6 mm ² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 2 cable(s) 2.5...10 mm ² - cable stiffness: solid - without 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: 2.5 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Power circuit: 2.5 N.m - on screw clamp terminals - with screwdriver Philips No 2
Operating time	4...19 ms opening 12...22 ms closing

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	15 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	70 VA at 20 °C (cos ϕ 0.75) 60 Hz 70 VA at 20 °C (cos ϕ 0.75) 50 Hz
Hold-in power consumption in VA	7.5 VA at 20 °C (cos ϕ 0.3) 60 Hz 7 VA at 20 °C (cos ϕ 0.3) 50 Hz
Heat dissipation	2...3 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 15...25 kW 525...690 V 3 phases 4...6 kW 100...120 V 3 phases
Motor starter type	Direct on-line contactor

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 closed 15 Gn for 11 ms Shocks contactor open 8 Gn for 11 ms
Altura	85 mm
Anchura	45 mm
Profundidad	92 mm
Peso del producto	0.38 kg

Oferta sustentable

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0627 - 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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