

LC1D95F7

TeSys D contactor - 3P(3 NO) - AC-3 - ≤ 440 V 95 A - 110 V AC 50/60 Hz coil



Principal

Gama de producto	TeSys D
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Nombre del producto	TeSys D
Tipo de producto o componente	Conector
Nombre corto del dispositivo	LC1D
Aplicación del contactor	Control del motor Carga resistiva
Categoría de empleo	AC-1 AC-3 AC-4
Número de polos	3P
Composición de los polos de contacto	3 NA
[Ue] tensión asignada de empleo	≤ 300 V DC 25...400 Hz for power circuit ≤ 1000 V AC for power circuit
[Ie] corriente asignada de empleo	125 A (≤ 60 °C) at ≤ 440 V AC AC-1 for power circuit 95 A (≤ 60 °C) at ≤ 440 V AC AC-3 for power circuit
Potencia del motor en kW	45 kW at 660...690 V AC 50/60 Hz AC-3 45 kW at 415...440 V AC 50/60 Hz AC-3 55 kW at 500 V AC 50/60 Hz AC-3 45 kW at 1000 V AC 50/60 Hz AC-3 15 kW at 400 V AC 50/60 Hz AC-4 25 kW at 220...230 V AC 50/60 Hz AC-3 45 kW at 380...400 V AC 50/60 Hz AC-3
Potencia del motor en HP	20 hp at 200/208 V AC 50/60 Hz for 3 phases motors 7.5 hp at 115 V AC 50/60 Hz for 1 phase motors 15 hp at 230/240 V AC 50/60 Hz for 1 phase motors 25 hp at 230/240 V AC 50/60 Hz for 3 phases motors 60 hp at 460/480 V AC 50/60 Hz for 3 phases motors 60 hp at 575/600 V AC 50/60 Hz for 3 phases motors
Tipo de circuito de control	AC 50/60 Hz
[Uc] tensión del circuito de control	110 V AC 50/60 Hz
Composición de los contactos auxiliares	1 NA + 1 NC
[Uimp] Tensión asignada de resistencia a los choques	Conforming to IEC 60947
Categoría de sobreten-sión	III
[Ith] corriente térmica-conventional	125 A at ≤ 60 °C for power circuit 10 A at ≤ 60 °C for signalling circuit
Irms poder de conexión-nominal	1100 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
Poder asignado de corte	1100 A at 440 V for power circuit conforming-to IEC 60947

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[Icw] Corriente temporal admisible	1100 A <= 40 °C 1 s power circuit 135 A <= 40 °C 10 min power circuit 400 A <= 40 °C 1 min power circuit 800 A <= 40 °C 10 s power circuit 100 A 1 s signalling circuit 120 A 500 ms signalling circuit 140 A 100 ms signalling circuit
Fusible asociado	160 A gG en <= 690 V coordinación tipo 2 para circuito de alimentación 200 A gG en <= 690 V coordinación tipo 1 para circuito de alimentación 10 A gG para circuito de señalización acorde a IEC 60947-5-1
Impedancia media	0.8 mOhm en 50 Hz - Ith 125 A para circuito de alimentación
[Ui] tensión asignada-de aislamiento	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 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	1.2 Mcycles 95 A AC-3 at Ue <= 440 V 1.3 Mcycles 125 A AC-1 at Ue <= 440 V
Potencia disipada por-polo	7.2 W AC-3 12.5 W AC-1
Cubierta protectora	Con
Tipo de montaje	Placa Carriil
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	BV CCC DNV GL GOST LROS (Lloyds register of shipping) RINA
Conexiones - terminales	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: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm ² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 1 cable(s) 1...2.5 mm ² - cable stiffness: flexible - with cable end Power circuit: connector 1 cable(s) 4...50 mm ² - cable stiffness: flexible - without cable end Power circuit: connector 2 cable(s) 4...25 mm ² - cable stiffness: flexible - without cable end Power circuit: connector 1 cable(s) 4...50 mm ² - cable stiffness: flexible - with cable end Power circuit: connector 2 cable(s) 4...16 mm ² - cable stiffness: flexible - with cable end Power circuit: connector 1 cable(s) 4...50 mm ² - cable stiffness: solid - without cable end Power circuit: connector 2 cable(s) 4...25 mm ² - cable stiffness: solid - without cable end

Par de apriete	Power circuit: 9 N.m - on connector - with screwdriver flat Ø 6 to Ø 8 mm Power circuit: 9 N.m - on connector hexagonal 4 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2
Duración de maniobra	20...35 ms closing 6...20 ms opening
Nivel de fiabilidad de-seguridad	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
Endurancia mecánica	4 Mcycles
Rango de operación	3600 cyc/h at ≤ 60 °C

Complementario

Característica de la bobina	Sin filtro antiparasitario de serie
Límites de tensión del circuito de control	0.85...1.1 Uc operational 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 Hz
Consumo a la llamada en VA	245 VA at 20 °C (cos φ 0.75) 60 Hz 245 VA at 20 °C (cos φ 0.75) 50 Hz
Consumo de mantenimiento en VA	26 VA at 20 °C (cos φ 0.3) 60 Hz 26 VA at 20 °C (cos φ 0.3) 50 Hz
Disipación de calor	6...10 W at 50/60 Hz
Tipo de contactos auxiliares	Tipo unido mecánicamente (1 NA + 1 NC) acorde a IEC 60947-5-1 Tipo contacto espejo (1 NC) acorde a IEC 60947-4-1
Frecuencia del circuito de señalización	25...400 Hz
Corriente mínima de conmutación	5 mA for signalling circuit
Tensión mínima de conmutación	17 V for signalling circuit
Tiempo de no superposición	1.5 ms on de-energisation (between NC and NO contact) 1.5 ms on energisation (between NC and NO contact)
Resistencia de aislamiento	> 10 MOhm for signalling circuit
Compatibilidad de contacto	M11
Código de compatibilidad	LC1D
Rango de potencia	15...25 kW 200...240 V 3 phases 30...50 kW 380...440 V 3 phases 30...50 kW 480...500 V 3 phases 55...100 kW 480...500 V 3 phases
Tipo de arranque motor	Contactador directo
Tension de la bobina del contactor	110 V AC standard

Entorno

Grado de protección IP	IP20 front face conforming to IEC 60529
Tratamiento de protección	TH conforming to IEC 60068-2-30
Grado de contaminación	3
Temperatura ambiente de funcionamiento	-5...60 °C
Temperatura ambiente de almacenamiento	-60...80 °C
Temperatura ambiente admisible alrededor del dispositivo	-40...70 °C at Uc
Altitud máxima de funcionamiento	3000 m without derating in temperature
Resistencia al fuego	850 °C conforming to IEC 60695-2-1
Resistencia a las llamas	V1 conforming to UL 94
Resistencia mecánica	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
Altura	127 mm
Anchura	85 mm
Profundidad	130 mm
Peso del producto	1.61 kg

Garantía contractual

Warranty period	18 months
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Product Life Status :	Comercializado
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