Product data sheet **Characteristics**

LC1D50AG7 TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 50 A - 120 V AC 50/60 Hz coil

Product availability : Stock - Normally stocked in distribution facility



Industrial Thermal Technologies



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Main		di lots
Range	TeSys	
Product name	TeSys D	thes
Product or component type	Contactor	تم ۸
Device short name	LC1D	
Contactor application	Motor control Resistive load	ti to or re
Utilisation category	AC-1	international de la constant de
	AC-3	
	AC-4	
Poles description	3P	
Power pole contact composition	3 NO	d
System Voltage	<= 300 V DC power circuit <= 690 V AC 25400 Hz power circuit	er Berlen Berlen
[le] rated operational current	50 A (<= 140 °F (60 °C)) at <= 440 V AC AC-3 power circuit 80 A (<= 140 °F (60 °C)) at <= 440 V AC AC-1 power circuit	listeriamer This documentation is not intended as a substitute for and is not to be used for determining suitability of these modulations
Motor power kW	22 kW at 380400 V AC 50/60 Hz AC-3	
	25 kW at 415 V AC 50/60 Hz AC-3 30 kW at 440 V AC 50/60 Hz AC-3	ute f
	30 kW at 500 V AC 50/60 Hz AC-3	bstit
	33 kW at 660690 V AC 50/60 Hz AC-3	ច
	15 kW at 220230 V AC 50/60 Hz AC-3	
	11 kW at 400 V AC 50/60 Hz AC-4	
Motor power HP (UL / CSA)	3 hp at 115 V AC 50/60 Hz 1 phase motors 7.5 hp at 230/240 V AC 50/60 Hz 1 phase motors	ii. Of
	15 hp at 200/208 V AC 50/60 Hz 3 phase motors	
	15 hp at 230/240 V AC 50/60 Hz 3 phases motors	ation
	40 hp at 460/480 V AC 50/60 Hz 3 phases motors	
	40 hp at 575/600 V AC 50/60 Hz 3 phases motors	
Control circuit type	AC 50/60 Hz	This.
[Uc] control circuit voltage	120 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	80 A at <= 140 °F (60 °C) power circuit 10 A at <= 140 °F (60 °C) signalling circuit
Irms rated making capacity	900 A at 440 V power circuit conforming to IEC 60947 140 A AC signalling circuit conforming to IEC 60947-5-1 250 A DC signalling circuit conforming to IEC 60947-5-1
Rated breaking capacity	900 A at 440 V power circuit 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 400 A <= 104 $^{\circ}$ F (40 $^{\circ}$ C) 10 s power circuit 810 A <= 104 $^{\circ}$ F (40 $^{\circ}$ C) 1 s power circuit 84 A <= 104 $^{\circ}$ F (40 $^{\circ}$ C) 10 min power circuit 208 A <= 104 $^{\circ}$ F (40 $^{\circ}$ C) 1 min power circuit
Associated fuse rating	100 A gG at <= 690 V coordination type 1 power circuit 100 A gG at <= 690 V coordination type 2 power circuit 10 A gG signalling circuit conforming to IEC 60947-5-1
Average impedance	1.5 mOhm at 50 Hz - Ith 80 A power circuit
[Ui] rated insulation voltage	600 V power circuit certifications CSA 600 V power circuit certifications UL 690 V power circuit conforming to IEC 60947-4-1 690 V signalling circuit conforming to IEC 60947-1 600 V signalling circuit certifications CSA 600 V signalling circuit certifications UL
Electrical durability	1.45 Mcycles 50 A AC-3 at Ue <= 440 V 1.1 Mcycles 80 A AC-1 at Ue <= 440 V
Power dissipation per pole	3.7 W AC-3 9.6 W AC-1
Safety cover	With
Mounting support	Plate Rail
Standards	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508
Product certifications	BV CCC CSA DNV GL GOST LROS (Lloyds register of shipping) RINA UL
Connections - terminals	Control circuit: screw clamp terminals 2 cable(s) 00 in ² (12.5 mm ²) - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 00.01 in ² (14 mm ²) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 00.01 in ² (14 mm ²) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 00.01 in ² (14 mm ²) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 00.01 in ² (14 mm ²) - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 00.01 in ² (14 mm ²) - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 00.01 in ² (14 mm ²) - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 00.01 in ² (14 mm ²) - cable stiffness: solid - without cable end Power circuit : screw connection 2 cable(s) 125 mm ² - cable stiffness: flexible - with cable end Power circuit : screw connection 2 cable(s) 125 mm ² - cable stiffness: solid - without cable end Power circuit : screw connection 2 cable(s) 125 mm ² - cable stiffness: solid - without cable end Power circuit : screw connection 2 cable(s) 125 mm ² - cable stiffness: solid - without cable end Power circuit : screw connection 1 cable(s) 135 mm ² - cable stiffness: flexible - without cable end Power circuit : screw connection 1 cable(s) 135 mm ² - cable stiffness: flexible - without cable end Power circuit : screw connection 1 cable(s) 135 mm ² - cable stiffness: flexible - without cable end Power circuit : screw connection 1 cable(s) 135 mm ² - cable stiffness: flexible - without cable end Power circuit : screw connection 1 cable(s) 135 mm ² - cable stiffness: flexible - without cable end Power circuit : screw connection 1 cable(s) 135 mm ² - cable stiffness: flexible - without cable end
Tightening torque	Control circuit: 15.04 lbf.in (1.7 N.m) - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 15.04 lbf.in (1.7 N.m) - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 70.8 lbf.in (8 N.m) - on EverLink BTR screw connectors - cable 0.040.05 in ² (2535 mm ²) hexagonal 0.16 in (4 mm)



le 125 mm² hexagonal 4 mm
to EN/ISO 13849-1 ning to EN/ISO 13849-1

Complementary

Coil technology	Without built-in suppressor module	
Control circuit voltage limits	0.30.6 Uc drop-out at 140 °F (60 °C), AC 50/60 Hz 0.81.1 Uc operational at 140 °F (60 °C), AC 50 Hz 0.851.1 Uc operational at 140 °F (60 °C), AC 60 Hz	
Inrush power in VA	140 VA at 68 °F (20 °C) (cos φ 0.75) 60 Hz 160 VA at 68 °F (20 °C) (cos φ 0.75) 50 Hz	
Hold-in power consumption in VA	13 VA at 68 °F (20 °C) (cos φ 0.3) 60 Hz 15 VA at 68 °F (20 °C) (cos φ 0.3) 50 Hz	
Heat dissipation	45 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	25400 Hz	
Minimum switching current	5 mA signalling circuit	
Minimum switching voltage	17 V 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 signalling circuit	

Environment

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	23140 °F (-560 °C)
Ambient air temperature for storage	-76176 °F (-6080 °C)
Permissible ambient air temperature around the device	-40158 °F (-4070 °C) at Uc
Operating altitude	9842.52 ft (3000 m) without derating in temperature
Fire resistance	1562 °F (850 °C) conforming to IEC 60695-2-1
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Vibrations contactor open 2 Gn, 5300 Hz Vibrations contactor closed 4 Gn, 5300 Hz Shocks contactor open 10 Gn for 11 ms Shocks contactor closed 15 Gn for 11 ms
Height	4.8 in (122 mm)
Width	2.17 in (55 mm)
Depth	4.72 in (120 mm)
Product weight	1.88 lb(US) (0.855 kg)

Ordering and shipping details

Category	22345 - CTR,D-LINE,OPEN,NONREV-NEW
Discount Schedule	112
GTIN	00785901934622
Nbr. of units in pkg.	1
Package weight(Lbs)	2.0699999999999998
Returnability	Y
Country of origin	ID



Offer Sustainability 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 Reference not containing SVHC above the threshold Product environmental profile Available Product end of life instructions Available California proposition 65 WARNING: This product can expose you to chemicals including: ---- Substance 1 Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. ---- - - More information For more information go to www.p65warnings.ca.gov

Contractual warranty

Warranty period

18 months