



Main

Range of product	TeSys D
Range	TeSys
Product or component type	Contacteur
Device short name	LC1D
Contacteur application	Resistive load Motor control
Utilisation category	AC-3 AC-2 AC-1 AC-4
Control circuit type	AC at 50/60 Hz
Poles description	3P
Pole contact composition	3 NO
[Ie] rated operational current	50 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 80 A (at <60 °C) at <= 440 V AC AC-1 for power circuit
Motor power kW	22 KW at 380...400 V AC 50 Hz 25 KW at 415 V AC 50 Hz 30 KW at 440 V AC 50 Hz 30 KW at 500 V AC 50 Hz 33 KW at 660...690 V AC 50 Hz 15 KW at 220...230 V AC 50 Hz 30 KW at 1000 V AC 50 Hz

Complementary

Coil technology	Without built-in bidirectional peak limiting diode suppressor
Protective cover	With
Motor power hp	3 Hp at 115 V AC 60 Hz for 1 phase motors 7.5 Hp at 230/240 V AC 60 Hz for 1 phase motors 15 Hp at 200/208 V AC 60 Hz for 3 phases motors 15 Hp at 230/240 V AC 60 Hz for 3 phases motors 40 Hp at 460/480 V AC 60 Hz for 3 phases motors 40 Hp at 575/600 V AC 60 Hz for 3 phases motors
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
Auxiliary contact composition	1 NO + 1 NC
[Uc] control circuit voltage	208 V AC 50/60 Hz
Control circuit voltage limits	Drop-out: 0.3...0.6 Uc at 50/60 Hz (at <60 °C) Operational: 0.8...1.1 Uc at 50 Hz (at <60 °C) Operational: 0.85...1.1 Uc at 60 Hz (at <60 °C)

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[Ui] rated insulation voltage	Control circuit: 600 V CSA certified Control circuit: 600 V UL certified Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Control circuit: 690 V conforming to IEC 60947-1 Power circuit: 690 V conforming to IEC 60947-1
[Uimp] rated impulse withstand voltage	8 KV conforming to IEC 60947
Overvoltage category	III
Mounting support	Rail Plate
Flame retardance	V1 conforming to UL 94
Connections - terminals	Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² rigid Control circuit: screw clamp terminals 2 cable(s) 1...4 mm ² rigid Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm ² flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 1...2.5 mm ² flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm ² flexible with cable end Power circuit: screw terminals 1 cable(s) 2.5...25 mm ² rigid Power circuit: screw terminals 2 cable(s) 2.5...16 mm ² rigid Power circuit: screw terminals 1 cable(s) 2.5...25 mm ² flexible without cable end Power circuit: screw terminals 2 cable(s) 2.5...16 mm ² flexible without cable end Power circuit: screw terminals 1 cable(s) 2.5...25 mm ² flexible with cable end Power circuit: screw terminals 2 cable(s) 2.5...10 mm ² flexible with cable end
Tightening torque	Control circuit: 1.2 N.m - on screw clamp terminal - with screwdriver flat Ø 6 mm Control circuit: 1.2 N.m - on screw clamp terminal - with screwdriver Philips No 2 Power circuit: 5 N.m - on screw terminal - with screwdriver flat Ø 6 to Ø 8 mm
[Ue] rated operational voltage	Power circuit: ≤ 690 V AC 25...400 Hz
[Ith] conventional free air thermal current	10 A (at 60 °C) for control circuit 80 A (at 60 °C) for power circuit
Irms rated making capacity	900 A at 440 V for power circuit conforming to IEC 60947 140 A AC for control circuit conforming to IEC 60947-5-1
Rated breaking capacity	900 A at 440 V for power circuit conforming to IEC 60947
Associated fuse rating	10 A gG for control circuit conforming to IEC 60947-5-1 100 A gG at ≤ 690 V coordination type 1 for power circuit 100 A gG at ≤ 690 V coordination type 2 for power circuit
Power dissipation per pole	3.7 W AC-3 9.6 W AC-1
Inrush power in VA	140 VA cos phi 0.75 (at 20 °C) 160 VA cos phi 0.75 (at 20 °C)
Hold-in power consumption in VA	13 VA 60 Hz cos phi 0.3 (at 20 °C) 15 VA 50 Hz cos phi 0.3 (at 20 °C)
Operating time	4...19 ms opening 12...26 ms closing
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	6000000 Cycles
Maximum operating rate	3600 Cyc/H 60 °C
Minimum switching current	5 MA for control circuit
Minimum switching voltage	17 V for control circuit
Non-overlap time	1.5 Ms on de-energisation between NC and NO contacts 1.5 Ms on energisation between NC and NO contacts
Insulation resistance	> 10 MOhm for control circuit
Terminals description ISO n°1	(A1-A2)CO (13-14)NO (21-22)NC
Height	127 Mm
Width	75 Mm
Depth	119 Mm
Net weight	1.4 Kg

Environment

Standards	CSA C22.2 No 14 UL 508 IEC 60947-4-1 IEC 60947-5-1 EN 60947-5-1 EN 60947-4-1
Product certifications	CCC CSA BV GL UL GOST DNV RINA LROS (Lloyds register of shipping)
IP degree of protection	IP2x conforming to IEC 60529 IP2x conforming to VDE 0106
Ambient air temperature for operation	-5...60 °C
Ambient air temperature for storage	-60...80 °C
Permissible ambient air temperature around the device	-40...70 °C at U _c
Operating altitude	3000 m without
Fire resistance	850 °C conforming to IEC 60695-2-1
Shock resistance	10 gn contactor opened 15 gn contactor closed
Vibration resistance	2 gn 5...300 Hz contactor opened 4 gn 5...300 Hz contactor closed
Heat dissipation	4...5 W at 50/60 Hz for control circuit

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Contractual warranty

Warranty	18 months
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Product Life Status : **Commercialised**

LC1D50LE7 may be replaced by any of the following products:



LC1D50ALE7

TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 50 A - 208 V AC 50/60 Hz coil

Qty 1

Reason for Substitution: End of life | Substitution date: 09 Jan 2008 | Montage direct ancien relais thermique incompatible. Ajouter un-LAD4BB3 pour connecter un LA4D...



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