LC1D18LE7 TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 18 A - 208 V AC coil



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Main	
Range of product	TeSys D
Product or component type	Contactor
Device short name	LC1D
Contactor application	Motor control Resistive load
Utilisation category	AC-1 AC-3
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	<= 690 V DC for power circuit <= 690 V AC 25400 Hz for power circuit
[le] rated operational current	18 A (<= 60 °C) at <= 440 V AC AC-3 for power cir- cuit 32 A (<= 60 °C) at <= 440 V AC AC-1 for power cir- cuit
Motor power kW	10 kW at 660690 V AC 50/60 Hz 10 kW at 500 V AC 50/60 Hz 9 kW at 415440 V AC 50/60 Hz 7.5 kW at 380400 V AC 50/60 Hz 4 kW at 220230 V AC 50/60 Hz
Motor power HP (UL / CSA)	15 hp at 575/600 V AC 50/60 Hz for 3 phases mo- tors 10 hp at 460/480 V AC 50/60 Hz for 3 phases mo- tors 5 hp at 230/240 V AC 50/60 Hz for 3 phases motors 5 hp at 200/208 V AC 50/60 Hz for 3 phases motors 3 hp at 230/240 V AC 50/60 Hz for 1 phase motors
	1 hp at 115 V AC 50/60 Hz for 1 phase motors
Control circuit type	AC 50/60 Hz
Control circuit voltage	208 V AC 50/60 Hz
Control circuit voltage Auxiliary contact com-	208 V AC 50/60 Hz
Control circuit voltage Auxiliary contact com- position [Uimp] rated impulse	208 V AC 50/60 Hz 1 NO + 1 NC
Control circuit voltage Auxiliary contact com- position [Uimp] rated impulse withstand voltage	208 V AC 50/60 Hz 1 NO + 1 NC 6 kV conforming to IEC 60947
Control circuit voltage Auxiliary contact com- position [Uimp] rated impulse withstand voltage Overvoltage category [Ith] conventional free	208 V AC 50/60 Hz 1 NO + 1 NC 6 kV conforming to IEC 60947 III 32 A at <= 60 °C for power circuit
Control circuit voltage Auxiliary contact com- position [Uimp] rated impulse withstand voltage Overvoltage category [Ith] conventional free air thermal current Irms rated making ca-	208 V AC 50/60 Hz         1 NO + 1 NC         6 kV conforming to IEC 60947         III         32 A at <= 60 °C for power circuit
Control circuit voltage Auxiliary contact com- position [Uimp] rated impulse withstand voltage Overvoltage category [Ith] conventional free air thermal current Irms rated making ca- pacity Rated breaking capac-	208 V AC 50/60 Hz         1 NO + 1 NC         6 kV conforming to IEC 60947         III         32 A at <= 60 °C for power circuit
Control circuit voltage Auxiliary contact com- position [Uimp] rated impulse withstand voltage Overvoltage category [Ith] conventional free air thermal current Irms rated making ca- pacity Rated breaking capac- ity [Icw] rated short-time	208 V AC 50/60 Hz1 NO + 1 NC6 kV conforming to IEC 60947III32 A at <= 60 °C for power circuit



[Ui] rated insulation voltage	600 V for signalling circuit certifications UL 600 V for signalling circuit certifications CSA 690 V for signalling circuit conforming to IEC 60947-1 600 V for power circuit certifications UL 600 V for power circuit certifications CSA 690 V for power circuit conforming to IEC 60947-4-1
Electrical durability	1 Mcycles 32 A AC-1 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V
Power dissipation per pole	0.8 W AC-3 2.5 W AC-1
Safety cover	With
Mounting support	Plate Rail
Standards	EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 CSA C22.2 n°14
Product certifications	BV CCC CSA DNV GL GOST RINA UL LROS
Connections - terminals	Power circuit: screw clamp terminals 2 cable(s) 1.56 mm <sup>2</sup> - cable stiffness: solid - without cable end Power circuit: screw clamp terminals 1 cable(s) 1.56 mm <sup>2</sup> - cable stiffness: solid - without cable end Power circuit: screw clamp terminals 2 cable(s) 14 mm <sup>2</sup> - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 1 cable(s) 16 mm <sup>2</sup> - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 2 cable(s) 16 mm <sup>2</sup> - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 2 cable(s) 1.56 mm <sup>2</sup> - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 1 cable(s) 1.56 mm <sup>2</sup> - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s)
	<ul> <li>14 mm<sup>2</sup> - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 1 cable(s)</li> <li>14 mm<sup>2</sup> - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s)</li> <li>12.5 mm<sup>2</sup> - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s)</li> <li>14 mm<sup>2</sup> - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s)</li> <li>14 mm<sup>2</sup> - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s)</li> <li>14 mm<sup>2</sup> - cable stiffness: flexible - without cable end</li> </ul>
Tightening torque	Control circuit: screw clamp terminals 1 cable(s) 14 mm <sup>2</sup> - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm <sup>2</sup> - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm <sup>2</sup> - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm <sup>2</sup> - cable stiffness: flexible - without cable
Tightening torque	Control circuit: screw clamp terminals 1 cable(s) 14 mm <sup>2</sup> - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm <sup>2</sup> - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm <sup>2</sup> - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm <sup>2</sup> - cable stiffness: flexible - without cable end Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 1.7 N.m - on screw clamp terminals -
	Control circuit: screw clamp terminals 1 cable(s) 14 mm <sup>2</sup> - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm <sup>2</sup> - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm <sup>2</sup> - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm <sup>2</sup> - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm <sup>2</sup> - cable stiffness: flexible - without cable end Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm 419 ms opening
Operating time	Control circuit: screw clamp terminals 1 cable(s) 14 mm <sup>2</sup> - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm <sup>2</sup> - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm <sup>2</sup> - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm <sup>2</sup> - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm <sup>2</sup> - cable stiffness: flexible - without cable end Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm 419 ms opening 1222 ms closing B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1 B10d = 1369863 cycles contactor with nominal load

## Complementary Coil technology Without built-in suppressor module 0.85...1.1 Uc at 60 °C operational 60 Hz 0.8...1.1 Uc at 60 °C operational 50 Hz 0.3...0.6 Uc at 60 °C drop-out 50/60 Hz Control circuit voltage limits 70 VA at 20 °C (cos \$\$\phi\$ 0.75) 50 Hz Inrush power in VA 70 VA at 20 °C (cos \u00f3 0.75) 60 Hz 7 VA at 20 °C (cos $\varphi$ 0.3) 50 Hz 7.5 VA at 20 °C (cos $\varphi$ 0.3) 60 Hz Hold-in power consumption in VA Heat dissipation 2...3 W at 50/60 Hz Type mirror contact (1 NC) conforming to IEC 60947-4-1 Type mechanically linked (1 NO + 1 NC) conforming to IEC 60947-5-1 Auxiliary contacts type 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 energisation (between NC and NO contact) 1.5 ms on de-energisation (between NC and NO contact) > 10 MOhm for signalling circuit Insulation resistance

## Environment

IP degree of protection	IP2x front face conforming to IEC 60529
Protective treatment	TH conforming to IEC 60068-2-30
Pollution degree	3
Ambient air temperature for operation	-560 °C
Ambient air temperature for storage	-6080 °C
Permissible ambient air temperature around the de- vice	-4070 °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	Shocks contactor closed 15 Gn for 11 ms Shocks contactor open 10 Gn for 11 ms Vibrations contactor closed 4 Gn, 5300 Hz Vibrations contactor open 2 Gn, 5300 Hz
Height	77 mm
Width	45 mm
Depth	86 mm
Product weight	0.33 kg

## Offer Sustainability

Sustainable offer status	Green Premium product
RoHS	Compliant - since 0627 - 🚰 download declaration of conformity
REACh	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instruction	Need no specific recycling operations

