## Product data sheet Characteristics

LC1D32G7 TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 32 A - 120 V AC coil



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	50 A (<= 60 °C) at <= 440 V AC AC-1 for power cir- cuit 32 A (<= 60 °C) at <= 440 V AC AC-3 for power cir- cuit
Motor power kW	18.5 kW at 660690 V AC 50/60 Hz 18.5 kW at 500 V AC 50/60 Hz 15 kW at 415440 V AC 50/60 Hz 15 kW at 380400 V AC 50/60 Hz 7.5 kW at 220230 V AC 50/60 Hz
Motor power HP (UL / CSA)	<ul> <li>30 hp at 575/600 V AC 50/60 Hz for 3 phases motors</li> <li>20 hp at 460/480 V AC 50/60 Hz for 3 phases motors</li> <li>10 hp at 230/240 V AC 50/60 Hz for 3 phases motors</li> <li>7.5 hp at 200/208 V AC 50/60 Hz for 3 phases motors</li> <li>5 hp at 230/240 V AC 50/60 Hz for 1 phase motors</li> <li>2 hp at 115 V AC 50/60 Hz for 1 phase motors</li> </ul>
Control circuit type	AC 50/60 Hz
Control circuit voltage	120 V AC 50/60 Hz
Auxiliary contact com- position	1 NO + 1 NC
[Uimp] rated impulse withstand voltage	6 kV 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 ca- pacity	<ul> <li>550 A at 440 V for power circuit conforming to IEC 60947</li> <li>250 A DC for signalling circuit conforming to IEC 60947-5-1</li> <li>140 A AC for signalling circuit conforming to IEC 60947-5-1</li> </ul>
Rated breaking capac- ity	550 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	138 A <= 40 °C 1 min power circuit 60 A <= 40 °C 10 min power circuit 430 A <= 40 °C 1 s power circuit 260 A <= 40 °C 10 s power circuit 140 A 100 ms signalling circuit 120 A 500 ms signalling circuit 100 A 1 s signalling circuit

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining virtuality of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for musics or the information contained herein.

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Electrical durability       1.4 Mcycles 50 A AC-1 at Ue <= 440 V         1.65 Mcycles 32 A AC-3 at Ue <= 440 V         Power dissipation per pole       5 W AC-1         Safety cover       With         Mounting support       Plate Rail         Standards       EN 60947-6-1         EC 60947-5-1       EC 60947-5-1         EC 60947-5-1       EC 60947-6-1         UL 508       CSA C22.2 n°14         Product certifications       BV         CCC       CSA         DNV       GL         GOST       RINA         UL       Standards         Envortice Colocitations       Power circuit: screw clamp terminals 2 cable(s)         2.510 mm² - cable stiffness: solid - without cable end         Power circuit: screw clamp terminals 1 cable(s)         1.50 mm² - cable stiffness: flexible - with cable end         Power circuit: screw clamp terminals 1 cable(s)         1.50 mm² - cable stiffness: flexible - without cable end         Power circuit: screw clamp terminals 1 cable(s)         1.50 mm² - cable stiffness: flexible - without cable end         Power circuit: screw clamp terminals 1 cable(s)         1.510 mm² - cable stiffness: flexible - without cable end         Power circuit: screw clamp terminals 1 cable(s)         12.5		
60947-5-1           Average impedance         2 mOhm at 50 Hz - Ith 50 A for power circuit           [UI] rated insulation         600 V for signalling circuit certifications CSA 880 V for power circuit certifications UL 600 V 62 A AC-1 at Ue <= 440 V	Associated fuse rating	circuit 63 A gG at <= 690 V coordination type 1 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 certifications UL 600 V for power circuit certifications CSA 690 V for power circuit certifications UL 600 V for power circuit certifications CSA 690 V for power circuit certifications UL 600 V for power circuit certifications U A 40 V 1.65 Mcycles 32 A A C-3 at U = <= 440 V		
voltage         600 V for signaling circuit certifications CSA 600 V for signaling circuit certifications CSA 600 V for power circuit certifications CSA 600 V for power circuit certifications CSA 600 V for power circuit conforming to IEC 60947-4-1           Electrical durability         1.4 Mcycles 50 A AC-1 at Ue <= 440 V	Average impedance	2 mOhm at 50 Hz - Ith 50 A for power circuit
1.65 Moycles 32 A AC-3 at Ue <= 440 V		600 V for signalling circuit certifications CSA 690 V for signalling circuit conforming to IEC 60947-1 600 V for power circuit certifications UL
pole         2 W AC-3           Safety cover         With           Mounting support         Plate Rail           Standards         EN 60947-4-1 EC 60947-5-1 UL 508           Standards         EN 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) 2.510 mm² - cable stiffness: solid - without cable end Power circuit: screw clamp terminals 1 cable(s) 1.510 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 1 cable(s) 1.56 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 1 cable(s) 110 mm² - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 1 cable(s) 2.510 mm² - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 1 cable(s) 2.510 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - without cable end           Tightening torque         Power circuit: 2.5 N.m - on screw clamp termi	Electrical durability	
Mounting support         Plate Rail           Standards         EN 60947-4-1 EC 60947-5-1 IEC 60947-5-1 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) 2.510 mm² - cable stiffness: solid - without cable end Power circuit: screw clamp terminals 1 cable(s) 1.510 mm² - cable stiffness: fiexible - with cable end Power circuit: screw clamp terminals 1 cable(s) 1.56 mm² - cable stiffness: fiexible - with cable end Power circuit: screw clamp terminals 1 cable(s) 1.56 mm² - cable stiffness: fiexible - with cable end Power circuit: screw clamp terminals 1 cable(s) 110 mm² - cable stiffness: fiexible - with cable end Power circuit: screw clamp terminals 2 cable(s) 110 mm² - cable stiffness: fiexible - with cable end Power circuit: screw clamp terminals 1 cable(s) 2.510 mm² - cable stiffness: fiexible - without cable end Power circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: fiexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: fiexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: fiexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: fiexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: fiexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: fiexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: fiexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: fiexible - without cable end           Tightening torque		
Rail         Standards       EN 60947-4-1 EC 60947-5-1 IEC 60947-5-1 UL 508 CSA C22.2 n°14         Product certifications       BV CCC CCC CCC CCC CSA DNV GL GOST RINA UL LROS         Connections - terminals       Power circuit: screw clamp terminals 2 cable(s) 2.510 mm² - cable stiffness: solid - without cable end Power circuit: screw clamp terminals 1 cable(s) 1.510 mm² - cable stiffness: foll - without cable end Power circuit: screw clamp terminals 1 cable(s) 1.510 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 1 cable(s) 1.510 mm² - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 1 cable(s) 110 mm² - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 1 cable(s) 2.510 mm² - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 1 cable(s) 2.510 mm² - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - without cable end         Tightening torque       Power circu	Safety cover	With
EN 60947-5-1         IEC 60947-5-1         IEC 60947-5-1         UL 508         CSA C22.2 n°14         Product certifications         BV         CCC         CSA         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)         1.50 mm² - cable stiffness: flexible - with cable end         Power circuit: screw clamp terminals 2 cable(s)         1.510 mm² - cable stiffness: flexible - with cable end         Power circuit: screw clamp terminals 1 cable(s)         2.510 mm² - cable stiffness: solid - without cable end         Power circuit: screw clamp terminals 1 cable(s)         2.510 mm² - cable stiffness: solid - without cable end         Control circuit: screw clamp terminals 2 cable(s)         14 mm² - cable stiffness: solid - without cable end         Control circuit: screw clamp terminals 1 cable(s)         14 mm² - cable stiffness: flexible - with cable end         Control circuit: screw clamp terminals 1 cable(s)	Mounting support	
CCC       CSA         DNV       GL         GOST       RINA         UL       LROS         Connections - terminals       Power circuit: screw clamp terminals 2 cable(s)         2.510 mm² - cable stiffness: solid - without cable end       Power circuit: screw clamp terminals 1 cable(s)         1.510 mm² - cable stiffness: flexible - with cable end       Power circuit: screw clamp terminals 1 cable(s)         1.56 mm² - cable stiffness: flexible - with cable end       Power circuit: screw clamp terminals 1 cable(s)         110 mm² - cable stiffness: flexible - with cable end       Power circuit: screw clamp terminals 2 cable(s)         2.510 mm² - cable stiffness: flexible - without cable end       Power circuit: screw clamp terminals 1 cable(s)         2.510 mm² - cable stiffness: flexible - without cable end       Control circuit: screw clamp terminals 2 cable(s)         14 mm² - cable stiffness: solid - without cable end       Control circuit: screw clamp terminals 2 cable(s)         14 mm² - cable stiffness: solid - without cable end       Control circuit: screw clamp terminals 1 cable(s)         14 mm² - cable stiffness: flexible - with cable end       Control circuit: screw clamp terminals 1 cable(s)         14 mm² - cable stiffness: flexible - with cable end       Control circuit: screw clamp terminals 1 cable(s)         14 mm² - cable stiffness: flexible - without cable end       Control circuit: screw clamp terminals 1	Standards	EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508
2.510 mm² - cable stiffness: solid - without cable end         Power circuit: screw clamp terminals 1 cable(s)         1.510 mm² - cable stiffness: solid - without cable end         Power circuit: screw clamp terminals 2 cable(s)         1.56 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 1 cable(s)         110 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 2 cable(s)         2.510 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 1 cable(s)         2.510 mm² - cable stiffness: flexible - without cable end         Power circuit: screw clamp terminals 2 cable(s)         14 mm² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s)         14 mm² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 1 cable(s)         12.5 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s)         14 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s)         14 mm² - cable stiffness: flexible - without cable end         Control circuit: screw clamp terminals 1 cable(s)         14 mm² - cable stiffness: flexible - without cable end         Control circuit: screw clamp terminals 1 cable(s)         14 mm² - cable stiffness: flexible - without cable end         Control circuit: screw clamp terminals 1 cable(s) <t< td=""><td>Product certifications</td><td>CCC CSA DNV GL GOST RINA UL</td></t<>	Product certifications	CCC CSA DNV GL GOST RINA UL
with screwdriver Philips No 2         Power circuit: 2.5 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         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         Control circuit: 1.7 N.m - on screw clamp terminals -         with screwdriver flat Ø 6 mm         Operating time       419 ms opening	Connections - terminals	<ul> <li>2.510 mm<sup>2</sup> - cable stiffness: solid - without cable end</li> <li>Power circuit: screw clamp terminals 1 cable(s)</li> <li>1.510 mm<sup>2</sup> - cable stiffness: solid - without cable end</li> <li>Power circuit: screw clamp terminals 2 cable(s)</li> <li>1.56 mm<sup>2</sup> - cable stiffness: flexible - with cable end</li> <li>Power circuit: screw clamp terminals 1 cable(s)</li> <li>110 mm<sup>2</sup> - cable stiffness: flexible - with cable end</li> <li>Power circuit: screw clamp terminals 1 cable(s)</li> <li>110 mm<sup>2</sup> - cable stiffness: flexible - with cable end</li> <li>Power circuit: screw clamp terminals 2 cable(s)</li> <li>2.510 mm<sup>2</sup> - cable stiffness: flexible - without cable end</li> <li>Power circuit: screw clamp terminals 1 cable(s)</li> <li>2.510 mm<sup>2</sup> - cable stiffness: flexible - without cable end</li> <li>Control circuit: screw clamp terminals 2 cable(s)</li> <li>14 mm<sup>2</sup> - cable stiffness: solid - without cable end</li> <li>Control circuit: screw clamp terminals 1 cable(s)</li> <li>14 mm<sup>2</sup> - cable stiffness: flexible - with cable end</li> <li>Control circuit: screw clamp terminals 1 cable(s)</li> <li>14 mm<sup>2</sup> - cable stiffness: flexible - with cable end</li> <li>Control circuit: screw clamp terminals 1 cable(s)</li> <li>14 mm<sup>2</sup> - cable stiffness: flexible - with cable end</li> <li>Control circuit: screw clamp terminals 1 cable(s)</li> <li>14 mm<sup>2</sup> - cable stiffness: flexible - with cable end</li> <li>Control circuit: screw clamp terminals 2 cable(s)</li> <li>14 mm<sup>2</sup> - cable stiffness: flexible - with cable end</li> <li>Control circuit: screw clamp terminals 1 cable(s)</li> <li>14 mm<sup>2</sup> - cable stiffness: flexible - with cable end</li> <li>Control circuit: screw clamp terminals 1 cable(s)</li> <li>14 mm<sup>2</sup> - cable stiffness: flexible - without cable</li> <li>end</li> </ul>
	Tightening torque	with screwdriver Philips No 2 Power circuit: 2.5 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 Control circuit: 1.7 N.m - on screw clamp terminals -
<b>.</b>	Operating time	



Safety reliability level	B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1 B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1
Mechanical durability	15 Mcycles
Operating rate	3600 cyc/h at <= 60 °C

## Complementary

Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.851.1 Uc at 60 °C operational 60 Hz
	0.81.1 Uc at 60 °C operational 50 Hz
	0.30.6 Uc at 60 °C drop-out 50/60 Hz
Inrush power in VA	70 VA at 20 °C (cos φ 0.75) 50 Hz
	70 VA at 20 °C (cos φ 0.75) 60 Hz
Hold-in power consumption in VA	7 VA at 20 °C (cos φ 0.3) 50 Hz
	7.5 VA at 20 °C (cos φ 0.3) 60 Hz
Heat dissipation	23 W at 50/60 Hz
Auxiliary contacts type	Type mirror contact (1 NC) conforming to IEC 60947-4-1
	Type mechanically linked (1 NO + 1 NC) conforming to IEC 60947-5-1
Signalling circuit frequency	25400 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)
Insulation resistance	> 10 MOhm for signalling circuit

## 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 open 8 Gn for 11 ms Shocks contactor closed 15 Gn for 11 ms Vibrations contactor closed 4 Gn, 5300 Hz Vibrations contactor open 2 Gn, 5300 Hz
Height	85 mm
Width	45 mm
Depth	92 mm
Product weight	0.375 kg

## Offer Sustainability

Not Green Premium product
Compliant - since 0627 - 🚰 download declaration of conformity
Reference not containing SVHC above the threshold
Available
Need no specific recycling operations