Product data sheet Characteristics

LC1D32M7 TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 32 A - 220 V AC coil





Main

27 412 512		
Main		
Range of product	TeSys D	
Range	TeSys	
Product name	TeSys D	
Product or component type	Contactor	
Device short name	LC1D	
Contactor application	Motor control Resistive load	
Utilisation category	AC-1 AC-3 AC-4	
Poles description	3P	
Pole contact composition	3 NO	
[Ue] rated operational voltage	<= 300 V DC for power circuit <= 690 V AC 25400 Hz for power circuit	
[le] rated operational current	32 A (<= 60 °C) at <= 440 V AC AC-3 for power circuit 50 A (<= 60 °C) at <= 440 V AC AC-1 for power circuit	
Motor power kW	15 kW at 380400 V AC 50/60 Hz AC-3 7.5 kW at 220230 V AC 50/60 Hz AC-3 18.5 kW at 500 V AC 50/60 Hz AC-3 18.5 kW at 660690 V AC 50/60 Hz AC-3 15 kW at 415440 V AC 50/60 Hz AC-3 7.5 kW at 400 V AC 50/60 Hz AC-4	
Motor power hp	2 hp at 115 V AC 50/60 Hz for 1 phase motors 5 hp at 230/240 V AC 50/60 Hz for 1 phase motors 7.5 hp at 200/208 V AC 50/60 Hz for 3 phases motors 10 hp at 230/240 V AC 50/60 Hz for 3 phases motors 20 hp at 460/480 V AC 50/60 Hz for 3 phases motors 30 hp at 575/600 V AC 50/60 Hz for 3 phases motors	
Control circuit type	AC 50/60 Hz	
Control circuit voltage	220 V AC 50/60 Hz	
Auxiliary contact composition	1 NO + 1 NC	
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947	



Overvoltage category		
[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 capacity	550 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	
Rated breaking capacity	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 260 A <= 40 °C 10 s power circuit 430 A <= 40 °C 1 s power circuit 60 A <= 40 °C 10 min power circuit 100 A 1 s signalling circuit 120 A 500 ms signalling circuit 140 A 100 ms signalling circuit	
Associated fuse rating	63 A gG at <= 690 V coordination type 1 for power circuit 63 A gG at <= 690 V coordination type 2 for power circuit 10 A gG for signalling circuit conforming to IEC 60947-5-1	
Average impedance	2 mOhm at 50 Hz - Ith 50 A for power circuit	
[Ui] rated insulation voltage	 600 V for power circuit certifications CSA 600 V for power circuit certifications UL 690 V for power circuit conforming to IEC 60947-4-1 690 V for signalling circuit conforming to IEC 60947-1 600 V for signalling circuit certifications CSA 600 V for signalling circuit certifications UL 	
Electrical durability	1.65 Mcycles 32 A AC-3 at Ue <= 440 V 1.4 Mcycles 50 A AC-1 at Ue <= 440 V	
Power dissipation per pole	2 W AC-3 5 W AC-1	
Protective 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 RINA UL LROS	
Connections - terminals	Control circuit : screw clamp terminals 2 cable(s) 12.5 mm ² - cable stiffness: flexible - with cable end	
	Power circuit : screw clamp terminals 1 cable(s) 1.510 mm ² - cable stiffness: solid - without cable end Control circuit : screw clamp terminals 1 cable(s) 14 mm ² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 2 cable(s) 14 mm ² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 1 cable(s) 14 mm ² - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 1 cable(s) 14 mm ² - cable stiffness: solid - without cable end Control circuit : screw clamp terminals 2 cable(s) 14 mm ² - cable stiffness: solid - without cable end Control circuit : screw clamp terminals 2 cable(s) 2.510 mm ² - cable stiffness: flexible - without cable end Power circuit : screw clamp terminals 2 cable(s) 2.510 mm ² - cable stiffness: flexible - without cable end Power circuit : screw clamp terminals 1 cable(s) 110 mm ² - cable stiffness: flexible - without cable end Power circuit : screw clamp terminals 1 cable(s) 110 mm ² - cable stiffness: flexible - without cable end Power circuit : screw clamp terminals 2 cable(s) 110 mm ² - cable stiffness: flexible - with cable end Power circuit : screw clamp terminals 2 cable(s) 110 mm ² - cable stiffness: flexible - with cable end Power circuit : screw clamp terminals 2 cable(s) 110 mm ² - cable stiffness: flexible - with cable end Power circuit : screw clamp terminals 2 cable(s) 1.56 mm ² - cable stiffness: solid - without cable end	
Tightening torque	Control circuit : 1.7 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 Power circuit : 2.5 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Power circuit : 2.5 N.m - on screw clamp terminals - with screwdriver Philips No 2	

Operating time	419 ms opening 1222 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	15 Mcycles	
Operating rate	3600 cyc/h at <= 60 °C	

Complementary

Without built-in suppressor module	
0.30.6 Uc drop-out at 60 °C, AC 50/60 Hz 0.81.1 Uc operational at 60 °C, AC 50 Hz 0.851.1 Uc operational at 60 °C, AC 60 Hz	
70 VA at 20 °C (cos φ 0.75) 60 Hz 70 VA at 20 °C (cos φ 0.75) 50 Hz	
7.5 VA at 20 °C (cos φ 0.3) 60 Hz 7 VA at 20 °C (cos φ 0.3) 50 Hz	
23 W at 50/60 Hz	
Type mechanically linked (1 NO + 1 NC) conforming to IEC 60947-5-1 Type mirror contact (1 NC) conforming to IEC 60947-4-1	
25400 Hz	
5 mA for signalling circuit	
17 V for signalling circuit	
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	
711 kW 200240 V 3 phases 1525 kW 380440 V 3 phases 1525 kW 480500 V 3 phases	
Direct on-line contactor	
220 V AC	

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	-2060 °C
Ambient air temperature for storage	-6080 °C
Permissible ambient air temperature around the device	-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	Vibrations contactor open 2 Gn, 5300 Hz Vibrations contactor closed 4 Gn, 5300 Hz Shocks contactor closed 15 Gn for 11 ms Shocks contactor open 8 Gn for 11 ms
Height	85 mm
Width	45 mm
Depth	92 mm
Product weight	0.375 kg

Offer Sustainability	
Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0627 - 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	
	Provide the manual	

18 months

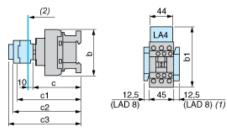
Contractual warranty

Warranty period

Product data sheet Dimensions Drawings

LC1D32M7

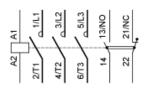
Dimensions



(1) Including LAD 4BB

Minimum electrical clearance (2) LC1 D25...D38 (3-pole) b without add-on blocks 85 with LAD 4BB 98 b1 with LA4 D•2 114⁽¹⁾ with LA4 DF, DT 123⁽¹⁾ with LA4 DW, DL $130^{(1)}$ с without cover or add-on blocks 90 with cover, without 2add-on blocks c1 with LAD N or C (2 or 4 contacts) 123 c2 with LA6 DK10, LAD 6K10 135 c3 with LAD T, R, S 143 with LAD T, R, S and sealing cover (1) Including LAD 4BB.

Wiring



<!-- File : MPC-LC1D32M7-BOM.xml , Range ID : 664, Reference ID : LC1D32M7 -->

Our Proposal - Type 1 : Circuit Breaker + Contactor for Motor Power 15 kW and 415 VAC -->

Motor Power (kW)	lcu (kA)	Breaker	Contactor
15	15		
		GV2ME32	LC1D32M7

Non contractual pictures. Type 1 coordination requires that in a short-circuit condition, the contactor or starter must not present any danger to personnel or installations and must not be able to resume operation without repair or the replacement of parts.

<!-- DataBOM 2 Template END --> <!-- No Variants -->