LC1D18P7TQ

contactor TeSys LC1-D - 3 poles - AC-3 440 V 18 A - coil 230 V AC 50/60 Hz





Main

Range of product	TeSys D
Range	TeSys
Product or component type	Contactor
Device short name	LC1D
Contactor application	Motor control Resistive load
Utilisation category	AC-1 AC-3
Control circuit type	AC 50/60 Hz
Poles description	3P
Pole contact composition	3 NO
[le] rated operational current	18 A (<= 60 °C) at <= 440 V AC AC-3 for power circuit 32 A (<= 60 °C) at <= 440 V AC AC-1 for power circuit
Motor power kW	10 kW at 500 V AC 50/60 Hz AC-3 10 kW at 660690 V AC 50/60 Hz AC-3 4 kW at 220230 V AC 50/60 Hz AC-3 7.5 kW at 380400 V AC 50/60 Hz AC-3 9 kW at 415440 V AC 50/60 Hz AC-3 4 kW at 400 V AC 50/60 Hz AC-4
Motor power hp	1 hp at 115 V AC 50/60 Hz for 1P motors conforming to CSA 1 hp at 115 V AC 50/60 Hz for 1P motors conforming to UL 10 hp at 460/480 V AC 50/60 Hz for 3P motors conforming to CSA 10 hp at 460/480 V AC 50/60 Hz for 3P motors conforming to UL 15 hp at 575/600 V AC 50/60 Hz for 3P motors conforming to CSA 15 hp at 575/600 V AC 50/60 Hz for 3P motors conforming to UL 3 hp at 230240 V AC 50/60 Hz for 1P motors conforming to CSA 3 hp at 230240 V AC 50/60 Hz for 1P motors conforming to UL 5 hp at 200/208 V AC 50/60 Hz for 3P motors conforming to CSA 5 hp at 200/208 V AC 50/60 Hz for 3P motors conforming to UL 5 hp at 230240 V AC 50/60 Hz for 3P motors conforming to UL 5 hp at 230240 V AC 50/60 Hz for 3P motors conforming to UL 5 hp at 230240 V AC 50/60 Hz for 3P motors conforming to CSA 5 hp at 230240 V AC 50/60 Hz for 3P motors conforming to CSA 5 hp at 230240 V AC 50/60 Hz for 3P motors conforming to UL
[Uc] control circuit voltage	230 V AC 50/60 Hz
O	

Connections - terminals

Control circuit: screw clamp terminal 1 cable 1...4 mm² - cable stiffness: solid - without cable end Control circuit: screw clamp terminal 2 cable 1...4 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminal 2 cable 1...4 mm² - cable stiffness: solid - without cable end Control circuit: spring terminal 1 cable 2.5 mm² - cable stiffness: flexible - without cable end Control circuit: spring terminal 2 cable 2.5 mm² - cable stiffness: flexible - without cable end Power circuit: screw clamp terminal 1 cable 1...6 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminal 1 cable 1...6 mm² - cable stiffness: flexible - without cable end Power circuit: screw clamp terminal 1 cable 1.5...6 mm² - cable stiffness: flexible - without

cable end Power circuit: screw clamp terminal 1 cable 1.5...6 mm² - cable stiffness: solid - without cable Power circuit: screw clamp terminal 2 cable 1.5...6 mm² - cable stiffness: solid - without cable end Power circuit: spring terminal 1 cable 4 mm² cable stiffness: flexible - without cable end Control circuit: screw clamp terminal 2 cable 1...2.5 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminal 1 cable 1...4 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminal 1 cable 1...4 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminal 2 cable 1.5...6 mm² - cable stiffness: flexible - without cable end Power circuit: screw clamp terminal 2 cable 1...4 mm² - cable stiffness: flexible - with cable end Power circuit: spring terminal 2 cable 4 mm² Control circuit: ring lugs - external diameter: 8 mm Power circuit: ring lugs - external diameter: 8 mm Power circuit: ring lugs - external diameter: 8 mm Quantity per set Set of 10

Complementary

Coil technology	Without built-in bidirectional peak limiting diode suppressor
Protective cover	With
Auxiliary contact composition	1 NO + 1 NC
Control circuit voltage limits	0.30.6 Uc at 60 °C drop-out 50/60 Hz 0.81.1 Uc at 60 °C operational 50 Hz 0.851.1 Uc at 60 °C operational 60 Hz
[Ui] rated insulation voltage	600 V for control circuit certifications CSA 600 V for control circuit certifications UL 600 V for power circuit certifications CSA 600 V for power circuit certifications UL 690 V for control circuit conforming to IEC 60947-4-1 690 V for power circuit conforming to IEC 60947-4-1
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947
Overvoltage category	III
Mounting support	Plate Rail
Flame retardance	V1 conforming to UL 94
Tightening torque	Power circuit: 1.7 N.m - with screwdriver Philips No 2 Control circuit: 1.7 N.m - with screwdriver Philips No 2 Control circuit: 1.7 N.m - with screwdriver flat Ø 6 mm Power circuit: 1.7 N.m - with screwdriver flat Ø 6 mm
[Ue] rated operational voltage	<= 690 V AC 25400 Hz for power circuit
[lth] conventional free air thermal current	10 A at <= 60 °C for control circuit 32 A at <= 60 °C for power circuit
Irms rated making capacity	140 A AC for control circuit conforming to IEC 60947-5-1 300 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	300 kA 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 35 A at <= 690 V coordination type 2 for power circuit 50 A at <= 690 V coordination type 1 for power circuit
Average impedance	2.5 mOhm at 50 Hz - Ith 32 A for power circuit
Power dissipation per pole	0.8 W AC-3 2.5 W AC-1
Inrush power in VA	70 VA at 20 °C (cos f 0.75)
Hold-in power consumption in VA	7 VA at 20 °C (cos f 0.3) 50/60 Hz
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	15000000 cycles
Operating rate	3600 cyc/h at <= 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
Height	77 mm
Width	45 mm
Depth	86 mm
Product weight	3.3 kg

Environment

standards	EN/IEC 60947-4-1 EN/IEC 60947-5-1 UL 508
	CSA C22.2 No 14
product certifications	BV CCC
	CSA
	DNV
	GL
	GOST
	LROS (Lloyds register of shipping)
	RINA
	UL
IP degree of protection	IP2x conforming to IEC 60529
-	IP2x conforming to VDE 0106
ambient air temperature for operation	-560 °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
fire resistance	850 °C conforming to IEC 60695-2-1
shock resistance	10 gn contactor opened
	15 gn contactor closed
vibration resistance	2 gn 5300 Hz contactor opened
	4 gn 5300 Hz contactor closed
heat dissipation	23 W at 50/60 Hz for control circuit

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
Product environmental profile	Available
Product end of life instructions	Available

