



Main

Range of product	TeSys D
Product or component type	Contacteur
Device short name	LC1D
Contacteur application	Motor control Resistive load
Utilisation category	AC-1 AC-3
Control circuit type	DC
Coil type	Low consumption
Poles description	3P
Pole contact composition	3 NO
[Ie] rated operational current	18 A ≤ 60 °C AC AC-3 power circuit 25 A ≤ 60 °C AC AC-1 power circuit
Motor power kW	4 kW 220...240 V AC 50/60 Hz 7,5 kW 380...400 V AC 50/60 Hz 9 kW 415 V AC 50/60 Hz 9 kW 440 V AC 50/60 Hz 10 kW 500 V AC 50/60 Hz 10 kW 660...690 V AC 50/60 Hz
Motor power hp	1 hp 115 V 1P AC 60 Hz UL 1 hp 115 V 1P AC 60 Hz CSA 3 hp 230/240 V 1P AC 60 Hz UL 3 hp 230/240 V 1P AC 60 Hz CSA 5 hp 230/240 V 3P AC 60 Hz CSA 5 hp 230/240 V 3P AC 60 Hz UL 5 hp 200/208 V 3P AC 60 Hz CSA 5 hp 200/208 V 3P AC 60 Hz UL 10 hp 460/480 V 3P AC 60 Hz CSA 10 hp 460/480 V 3P AC 60 Hz UL 15 hp 575/600 V 3P AC 60 Hz CSA 15 hp 575/600 V 3P AC 60 Hz UL
Control circuit voltage	24 V DC
Connections - terminals	Spring terminal power circuit 1 4 mm ² flexible without Spring terminal power circuit 2 4 mm ² flexible without Spring terminal control circuit 1 2,5 mm ² flexible without Spring terminal control circuit 2 2,5 mm ² flexible without

Complementary

Coil technology	Built-in bidirectional peak limiting diode suppressor
Protective cover	With
Auxiliary contacts type	Mechanically linked IEC 60947-5-1 1 NO + 1 NC Mirror contact IEC 60947-4-1 1 NC
Auxiliary contact composition	1 NO + 1 NC
Control circuit voltage limits	0.1...0.3 U _c ≤ 60 °C drop-out 0.8...1.25 U _c ≤ 60 °C operational
Time constant	40 ms
[Ui] rated insulation voltage	600 V UL power circuit 600 V CSA power circuit 600 V UL control circuit 600 V CSA control circuit 690 V IEC 60947-1 power circuit 690 V IEC 60947-1 control circuit

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[Uimp] rated impulse withstand voltage	6 kV IEC 60947
Overvoltage category	III
Mounting support	Plate Rail
Flame retardance	V1 UL 94
[Ue] rated operational voltage	<= 690 V AC 25...400 Hz power circuit
[Ith] conventional free air thermal current	10 A ≤ 60 °C control circuit 25 A ≤ 60 °C power circuit
Irms rated making capacity	250 A DC control circuit IEC 60947-5-1 300 A 440 V power circuit IEC 60947
Rated breaking capacity	300 A 440 V power circuit IEC 60947
Permissible short-time rating	40 A ≤ 40 °C 10 min power circuit 84 A ≤ 40 °C 1 min power circuit 100 A 1 s control circuit 120 A 500 ms control circuit 140 A 100 ms control circuit 145 A ≤ 40 °C 10 s power circuit 240 A ≤ 40 °C 1 s power circuit
Associated fuse rating	10 A gG control circuit IEC 60947-5-1 35 A gG <= 690 V type 2 power circuit 50 A gG <= 690 V type 1 power circuit
Average impedance	2,5 mOhm 50 Hz 25 A power circuit
Power dissipation per pole	0,8 W AC-3 2,5 W AC-1
Inrush power in W	2,4 W 20 °C
Hold-in power consumption in W	5,4 W 20 °C
Operating time	25 ms opening 77 ms closing
Mechanical durability	30000000 cycles
Operating rate	3600 cyc/h ≤ 60 °C
Minimum switching current	5 mA control circuit
Minimum switching voltage	17 V 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 control circuit
Rated operational power in W	14 W 24 V DC-13 10000000 cycles control circuit 48 W 24 V DC-13 3000000 cycles control circuit 96 W 24 V DC-13 1000000 cycles control circuit
Height	99 mm
Width	45 mm
Depth	99 mm 101 mm
Product weight	0,49 kg 0,495 kg

Environment

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 (Det Norske Veritas) GL GOST LROS RINA UL
IP degree of protection	IP2x VDE 0106 IP2x IEC 60529
Protective treatment	TH IEC 60068 3
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 IEC 60695-2-1
Shock resistance	10 gn contactor opened 15 gn contactor closed
Vibration resistance	2 gn contactor opened 5...300 Hz 4 gn contactor closed 5...300 Hz
RoHS EUR conformity date	0721
RoHS EUR status	Compliant