



Price\* : 479.00 USD



## Main

Range	TeSys
Product name	TeSys D
Product or component type	Contacteur
Device short name	LC1D
Contacteur application	Motor control Resistive load
Utilisation category	AC-1 AC-3 AC-4
Poles description	3P
Power pole contact composition	3 NO
System Voltage	$\leq 300$ V DC power circuit $\leq 1000$ V AC 25...400 Hz power circuit
[Ie] rated operational current	200 A ( $\leq 140$ °F (60 °C)) at $\leq 440$ V AC AC-1 power circuit 115 A ( $\leq 140$ °F (60 °C)) at $\leq 440$ V AC AC-3 power circuit
Motor power kW	55 kW at 380...400 V AC 50/60 Hz AC-3 75 kW at 500 V AC 50/60 Hz AC-3 80 kW at 660...690 V AC 50/60 Hz AC-3 30 kW at 220...230 V AC 50/60 Hz AC-3 59 kW at 415...440 V AC 50/60 Hz AC-3 65 kW at 1000 V AC 50/60 Hz AC-3 18.5 kW at 400 V AC 50/60 Hz AC-4
Motor power HP (UL / CSA)	30 hp at 200/208 V AC 50/60 Hz 3 phases motors 40 hp at 230/240 V AC 50/60 Hz 3 phases motors 75 hp at 460/480 V AC 50/60 Hz 3 phases motors 100 hp at 575/600 V AC 50/60 Hz 3 phases motors
Control circuit type	AC 50/60 Hz
[Uc] control circuit voltage	230 V AC 50/60 Hz
Auxiliary contact composition	1 NO + 1 NC
[Uimp] rated impulse withstand voltage	Conforming to IEC 60947

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Overvoltage category	III
[I <sub>th</sub> ] conventional free air thermal current	200 A at ≤ 140 °F (60 °C) power circuit
I <sub>rms</sub> rated making capacity	1260 A at 440 V power circuit conforming to IEC 60947 140 A AC signalling circuit conforming to IEC 60947-5-1 250 A DC signalling circuit conforming to IEC 60947-5-1
Rated breaking capacity	1100 A at 440 V power circuit conforming to IEC 60947
[I <sub>cw</sub> ] rated short-time withstand current	1100 A ≤ 104 °F (40 °C) 1 s power circuit 100 A 1 s signalling circuit 120 A 500 ms signalling circuit 140 A 100 ms signalling circuit 250 A ≤ 104 °F (40 °C) 10 min power circuit 550 A ≤ 104 °F (40 °C) 1 min power circuit 950 A ≤ 104 °F (40 °C) 10 s power circuit
Associated fuse rating	200 A gG at ≤ 690 V coordination type 2 power circuit 250 A gG at ≤ 690 V coordination type 1 power circuit 10 A gG signalling circuit
Average impedance	0.6 mOhm at 50 Hz - I <sub>th</sub> 200 A power circuit
[U <sub>i</sub> ] rated insulation voltage	1000 V power circuit conforming to IEC 60947-4-1 600 V power circuit certifications CSA 600 V power circuit certifications UL 690 V signalling circuit conforming to IEC 60947-1 600 V signalling circuit certifications CSA 600 V signalling circuit certifications UL
Electrical durability	0.8 Mcycles 200 A AC-1 at U <sub>e</sub> ≤ 440 V 0.95 Mcycles 115 A AC-3 at U <sub>e</sub> ≤ 440 V
Power dissipation per pole	24 W AC-1 7.9 W AC-3
Safety 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 LROS (Lloyds register of shipping) RINA UL
Connections - terminals	Control circuit: screw clamp terminals 2 cable(s) 0...0 in <sup>2</sup> (1...2.5 mm <sup>2</sup> ) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 0...0 in <sup>2</sup> (1...2.5 mm <sup>2</sup> ) - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 0...0 in <sup>2</sup> (1...2.5 mm <sup>2</sup> ) - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 1 cable(s) 0...0 in <sup>2</sup> (1...2.5 mm <sup>2</sup> ) - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 0...0 in <sup>2</sup> (1...2.5 mm <sup>2</sup> ) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 0...0 in <sup>2</sup> (1...2.5 mm <sup>2</sup> ) - cable stiffness: solid - without cable end Power circuit: connector 1 cable(s) 0.02...0.19 in <sup>2</sup> (10...120 mm <sup>2</sup> ) - cable stiffness: flexible - without cable end Power circuit: connector 2 cable(s) 0.02...0.08 in <sup>2</sup> (10...50 mm <sup>2</sup> ) - cable stiffness: flexible - without cable end Power circuit: connector 1 cable(s) 0.02...0.19 in <sup>2</sup> (10...120 mm <sup>2</sup> ) - cable stiffness: flexible - with cable end Power circuit: connector 2 cable(s) 0.02...0.08 in <sup>2</sup> (10...50 mm <sup>2</sup> ) - cable stiffness: flexible - with cable end Power circuit: connector 1 cable(s) 0.02...0.19 in <sup>2</sup> (10...120 mm <sup>2</sup> ) - cable stiffness: solid - without cable end

	Power circuit: connector 2 cable(s) 0.02...0.08 in <sup>2</sup> (10...50 mm <sup>2</sup> ) - cable stiffness: solid - without cable end
Tightening torque	Control circuit: 10.62 lbf.in (1.2 N.m) - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 10.62 lbf.in (1.2 N.m) - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 106.19 lbf.in (12 N.m) - on connector hexagonal 0.16 in (4 mm)
Operating time	6...20 ms opening 20...50 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	8 Mcycles
Operating rate	2400 cyc/h at ≤ 140 °F (60 °C)

## Complementary

Coil technology	Built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.3...0.5 U <sub>c</sub> drop-out at 131 °F (55 °C), AC 50/60 Hz 0.8...1.15 U <sub>c</sub> operational at 131 °F (55 °C), AC 50/60 Hz
Inrush power in VA	280...350 VA at 68 °F (20 °C) (cos φ 0.8) 60 Hz 280...350 VA at 68 °F (20 °C) (cos φ 0.8) 50 Hz
Hold-in power consumption in VA	2...18 VA at 68 °F (20 °C) (cos φ 0.3) 60 Hz 2...18 VA at 68 °F (20 °C) (cos φ 0.3) 50 Hz
Heat dissipation	3...8 W at 50/60 Hz
Auxiliary contacts type	Type mechanically linked (1 NO + 1 NC) conforming to IEC 60947-5-1 Type mirror contact (1 NC) conforming to IEC 60947-4-1
Signalling circuit frequency	25...400 Hz
Minimum switching current	5 mA signalling circuit
Minimum switching voltage	17 V signalling circuit
Non-overlap time	1.5 ms on de-energisation (between NC and NO contact) 1.5 ms on energisation (between NC and NO contact)
Insulation resistance	> 10 MOhm signalling circuit

## Environment

IP degree of protection	IP20 front face conforming to IEC 60529
Protective treatment	TH conforming to IEC 60068-2-30
Pollution degree	3
Ambient air temperature for operation	23...140 °F (-5...60 °C)
Ambient air temperature for storage	-76...176 °F (-60...80 °C)
Permissible ambient air temperature around the device	-40...158 °F (-40...70 °C) at U <sub>c</sub>
Operating altitude	9842.52 ft (3000 m) without derating in temperature
Fire resistance	1562 °F (850 °C) conforming to IEC 60695-2-1
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Vibrations contactor open 2 Gn, 5...300 Hz Vibrations contactor closed 4 Gn, 5...300 Hz Shocks contactor closed 15 Gn for 11 ms Shocks contactor open 6 Gn for 11 ms
Height	6.22 in (158 mm)
Width	4.72 in (120 mm)
Depth	5.35 in (136 mm)
Product weight	5.51 lb(US) (2.5 kg)

## Ordering and shipping details

Category	22345 - CTR,D-LINE,OPEN,NONREV-NEW
Discount Schedule	I12
GTIN	00785901840794
Nbr. of units in pkg.	1
Package weight(Lbs)	5.480000000000004

Returnability	Y
Country of origin	CZ

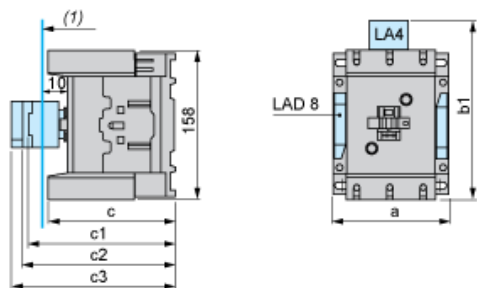
**Offer Sustainability**

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0742 - Schneider Electric declaration of conformity <a href="#">Schneider Electric declaration of conformity</a>
REACH	Reference contains SVHC above the threshold - Go to CaP for more details <a href="#">Go to CaP for more details</a>
Product environmental profile	Available <a href="#">Product Environmental Profile</a>
Product end of life instructions	Available
California proposition 65	WARNING: This product can expose you to chemicals including:
----- Substance 1	Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer.
----- More information	For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>

**Contractual warranty**

Warranty period	18 months
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Dimensions



(1) Minimum electrical clearance

LC1		D115 and D150 (3-pole)
a		120
b1	with LA4 DA2	174
	with LA4 DF, DT	185
	with LA4 DM, DL	188
	with LA4 DW	188
c	without cover or add-on blocks	132
	with cover, without add-on blocks	136
c1	with LAD N or C (2 or 4 contacts)	150
c2	with LA6 DK20	155
c3	with LAD T, R, S	168
	with LAD T, R, S and sealing cover	172

Wiring

