



Product availability : Stock - Normally stocked in distribution facility



Main

Range of product	TeSys D
Range	TeSys
Product name	TeSys D
Product or component type	Contactor
Device short name	LC1D
Contactor application	Resistive load Motor control
Utilisation category	AC-3 AC-1 AC-4
Poles description	3P
Pole contact composition	3 NO
System Voltage	≤ 300 V DC power circuit ≤ 1000 V AC 25...400 Hz power circuit
[Ie] rated operational current	200 A (≤ 140 °F (60 °C)) at ≤ 440 V AC AC-1 power circuit 150 A (≤ 140 °F (60 °C)) at ≤ 440 V AC AC-3 power circuit
Motor power kW	40 kW at 220...230 V AC 50/60 Hz AC-3 75 kW at 380...400 V AC 50/60 Hz AC-3 80 kW at 415...440 V AC 50/60 Hz AC-3 90 kW at 500 V AC 50/60 Hz AC-3 100 kW at 660...690 V AC 50/60 Hz AC-3 75 kW at 1000 V AC 50/60 Hz AC-3 22 kW at 400 V AC 50/60 Hz AC-4
Motor power hp	40 hp at 200/208 V AC 50/60 Hz 3 phases motors 50 hp at 230/240 V AC 50/60 Hz 3 phases motors 100 hp at 460/480 V AC 50/60 Hz 3 phases motors 125 hp at 575/600 V AC 50/60 Hz 3 phases motors
Control circuit type	AC 50/60 Hz
[Uc] control circuit voltage	24 V AC 50/60 Hz
Auxiliary contact composition	1 NO + 1 NC

[Uimp] rated impulse withstand voltage	Conforming to IEC 60947
Overvoltage category	III
[Ith] conventional free air thermal current	200 A at ≤ 140 °F (60 °C) power circuit
Irms rated making capacity	1660 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	1400 A at 440 V power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	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 580 A ≤ 104 °F (40 °C) 1 min power circuit 1200 A ≤ 104 °F (40 °C) 10 s power circuit 1400 A ≤ 104 °F (40 °C) 1 s power circuit
Associated fuse rating	250 A gG at ≤ 690 V coordination type 2 power circuit 315 A gG at ≤ 690 V coordination type 1 power circuit 10 A gG signalling circuit conforming to IEC 60947-5-1
Average impedance	0.6 mOhm at 50 Hz - Ith 200 A power circuit
[Ui] 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	0.85 Mcycles 150 A AC-3 at Ue ≤ 440 V 1 Mcycles 200 A AC-1 at Ue ≤ 440 V
Power dissipation per pole	24 W AC-1 13.5 W AC-3
Protective cover	With
Mounting support	Rail Plate
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	GOST UL RINA CSA BV DNV GL LROS (Lloyds register of shipping) CCC
Connections - terminals	Control circuit: screw clamp terminals 2 cable(s) 0...0 in ² (1...2.5 mm ²) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 0...0 in ² (1...2.5 mm ²) - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 0...0 in ² (1...2.5 mm ²) - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 1 cable(s) 0...0 in ² (1...2.5 mm ²) - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 0...0 in ² (1...2.5 mm ²) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 0...0 in ² (1...2.5 mm ²) - cable stiffness: solid - without cable end Power circuit: connector 1 cable(s) 0.02...0.19 in ² (10...120 mm ²) - cable stiffness: flexible - without cable end Power circuit: connector 2 cable(s) 0.02...0.08 in ² (10...50 mm ²) - cable stiffness: flexible - without cable end Power circuit: connector 1 cable(s) 0.02...0.19 in ² (10...120 mm ²) - cable stiffness: flexible - with cable end Power circuit: connector 2 cable(s) 0.02...0.08 in ² (10...50 mm ²) - cable stiffness: flexible - with cable end Power circuit: connector 1 cable(s) 0.02...0.19 in ² (10...120 mm ²) - cable stiffness: solid - without cable end

Power circuit: connector 2 cable(s) 0.02...0.08 in² (10...50 mm²) - 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	20...35 ms closing 40...75 ms opening
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	1200 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 _c drop-out at 131 °F (55 °C), AC 50/60 Hz 0.8...1.15 U _c operational at 131 °F (55 °C), AC 50/60 Hz
Inrush power in VA	280...350 VA at 68 °F (20 °C) (cos φ 0.9) 60 Hz 280...350 VA at 68 °F (20 °C) (cos φ 0.9) 50 Hz
Hold-in power consumption in VA	2...18 VA at 68 °F (20 °C) (cos φ 0.9) 60 Hz 2...18 VA at 68 °F (20 °C) (cos φ 0.9) 50 Hz
Heat dissipation	3...4.5 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
Power range	30...50 kW 200...240 V 3 phases 55...100 kW 380...440 V 3 phases 55...100 kW 480...500 V 3 phases
Motor starter type	Direct on-line contactor
Contactor coil voltage	24 V AC standard

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	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 _c
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
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Discount Schedule	I12
GTIN	00785901475996
Nbr. of units in pkg.	1
Package weight(Lbs)	5.429999999999997
Returnability	Y
Country of origin	CZ

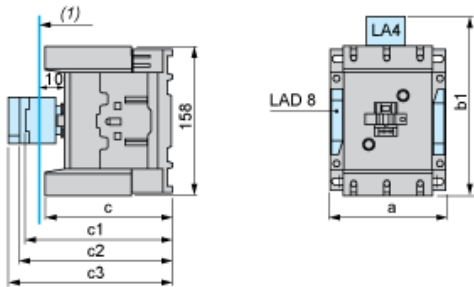
Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0927 - Schneider Electric declaration of conformity 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

Contractual warranty

Warranty period	18 months
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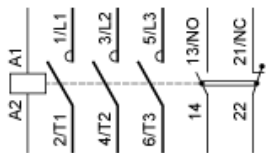
Dimensions





(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	130
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



Our Proposal - Type 1 : Circuit Breaker + Contactor for Motor Power 75 kW and 415 VAC

Motor Power (kW)	Icu (kA)	Breaker	Contactor
75	35	 GV7RE150	 LC1D150B7

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.