Specifications





TeSys Deca contactor, 3P(3 NO), AC-3, <= 440V, 150 A, 220V AC 50/60 Hz coil

LC1D150M7



Main

Main			
Range	TeSys		
Product name	TeSys D TeSys Deca		
Product or component type	Contactor		
Device short name	LC1D		
Contactor application	Motor control Resistive load		
Utilisation category	AC-3 AC-4 AC-1		
Poles description	3P		
Power pole contact composition	3 NO		
[Ue] rated operational voltage	Power circuit: <= 1000 V AC 25400 Hz Power circuit: <= 300 V DC		
[le] rated operational current	200 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 150 A (at <60 °C) at <= 440 V AC AC-3 for power circuit		
Motor power kW	40 kW at 220230 V AC 50/60 Hz (AC-3) 75 kW at 380400 V AC 50/60 Hz (AC-3) 80 kW at 415440 V AC 50/60 Hz (AC-3) 90 kW at 500 V AC 50/60 Hz (AC-3) 100 kW at 660690 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 (UL / CSA)	40 hp at 200/208 V AC 50/60 Hz for 3 phases motors 50 hp at 230/240 V AC 50/60 Hz for 3 phases motors 100 hp at 460/480 V AC 50/60 Hz for 3 phases motors 125 hp at 575/600 V AC 50/60 Hz for 3 phases motors		
Control circuit type	AC at 50/60 Hz		
[Uc] control circuit voltage	220 V AC 50/60 Hz		
Auxiliary contact composition	1 NO + 1 NC		
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947		
Overvoltage category	TII .		
[Ith] conventional free air thermal current	200 A (at 60 °C) for power circuit		
Irms rated making capacity	140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1 1660 A at 440 V for power circuit conforming to IEC 60947		
Rated breaking capacity	1400 A at 440 V for power circuit conforming to IEC 60947		
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[lcw] rated short-time withstand current	250 A 40 °C - 10 min for power circuit 580 A 40 °C - 1 min for power circuit 1200 A 40 °C - 10 s for power circuit 1400 A 40 °C - 1 s for power circuit 1400 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit		
Associated fuse rating	10 A gG for signalling circuit conforming to IEC 60947-5-1 315 A gG at <= 690 V coordination type 1 for power circuit 250 A gG at <= 690 V coordination type 2 for power circuit		
Average impedance	0.6 mOhm - Ith 200 A 50 Hz for power circuit		
[Ui] rated insulation voltage	Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Power circuit: 1000 V conforming to IEC 60947-4-1 Signalling circuit: 690 V conforming to IEC 60947-1 Signalling circuit: 600 V CSA certified Signalling circuit: 600 V UL certified		
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		
Front 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	CCC LROS (Lloyds register of shipping) GL GOST RINA CSA BV UL DNV UKCA		
Connections - terminals	Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 12.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 12.5 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 12.5 mm²solid without cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²solid without cable end Power circuit: connector 1 cable(s) 10120 mm²flexible without cable end Power circuit: connector 2 cable(s) 1050 mm²flexible without cable end Power circuit: connector 1 cable(s) 10120 mm²flexible with cable end Power circuit: connector 2 cable(s) 1050 mm²flexible with cable end Power circuit: connector 1 cable(s) 10120 mm²solid without cable end Power circuit: connector 2 cable(s) 10120 mm²solid without cable end		
Tightening torque	Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 12 N.m - on connector hexagonal screw head 4 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver pozidriv No 2		
Operating time	2035 ms closing 4075 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		
Maximum operating rate	1200 cyc/h 60 °C		
Complementary			
Coil technology	Built-in bidirectional peak limiting diode suppressor		
Control circuit voltage limits	0.30.5 Uc (-4070 °C):drop-out AC 50/60 Hz 0.81.15 Uc (-4055 °C):operational AC 50/60 Hz 11.15 Uc (5570 °C):operational AC 50/60 Hz		
Inrush power in VA	280350 VA 60 Hz cos phi 0.9 (at 20 °C) 280350 VA 50 Hz cos phi 0.9 (at 20 °C)		

Hold-in power consumption in VA	218 VA 60 Hz cos phi 0.9 (at 20 °C) 218 VA 50 Hz cos phi 0.9 (at 20 °C)		
Heat dissipation	34.5 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	25400 Hz		
Minimum switching current	5 mA for signalling circuit		
Minimum switching voltage	17 V for 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 for 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	-4060 °C 6070 °C with derating		
Ambient air temperature for storage	-6080 °C		
Operating altitude	03000 m		
Fire resistance	850 °C conforming to IEC 60695-2-1		
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: 6 Gn for 11 ms		
Height	158 mm		
Width	120 mm		
Depth	136 mm		
Net weight	2.5 kg		
Packing Units			
Unit Type of Package 1	PCE		
Number of Units in Package 1	1		
Package 1 Weight	2.49 kg		
Package 1 Height	21 cm		
Package 1 width	20 cm		
Package 1 Length	23.5 cm		
Unit Type of Package 2	P06		
Number of Units in Package 2	27		
Package 2 Weight	79.819 kg		
Package 2 Height	73.5 cm		
	80 cm		
Package 2 width			
Package 2 width Package 2 Length	60 cm		

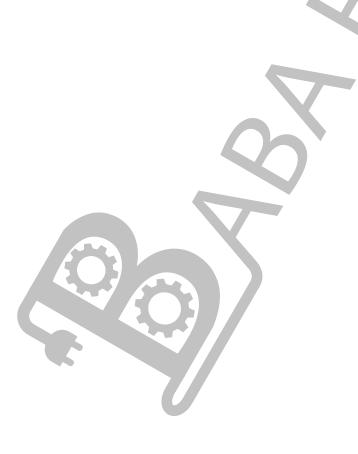
Green Premium product

Sustainable offer status

REACh Declaration		
Compliant EU RoHS Declaration		
Yes		
Yes		
China RoHS declaration Product out of China RoHS scope. Substance declaration for your information		
Product Environmental Profile		
End of Life Information /		
The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins		
Yes		
WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov		

Contractual warranty

Warranty	18 months)
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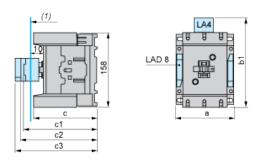


Product data sheet

LC1D150M7

Dimensions Drawings

Dimensions





(1) Minimum electrical clearance

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LC1		D115 and D150 (3-pole)
а		120
b1	with LA4 DA2	174
	with LA4 DF, DT	185
	with LA4 DM, DL	188
	with LA4 DW	188
С	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
с3	with LAD T, R, S	168
	with LAD T, R, S and sealing cover	172
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Wiring



