Contactor, TeSys Deca, 3P(3NO), AC-3/AC-3e, <=440V, 150A, 220V AC 50/60Hz coil, screw clamp terminals

LC1D150M7

Range	TeSys	
Range of product	TeSys D	
Product or component type	Contactor	
Device short name	LC1D	
Contactor application	Motor control Resistive load	
Utilisation category	AC-3 AC-4 AC-1 AC-3e	
Poles description	3P	
[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 150 A (at <60 °C) at <= 440 V AC AC-3e for power circuit	

Complementary		
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) 40 kW at 220230 V AC 50/60 Hz (AC-3e) 75 kW at 380400 V AC 50/60 Hz (AC-3e) 80 kW at 415440 V AC 50/60 Hz (AC-3e) 90 kW at 500 V AC 50/60 Hz (AC-3e) 100 kW at 660690 V AC 50/60 Hz (AC-3e) 75 kW at 1000 V AC 50/60 Hz (AC-3e)	
Motor power hp	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	
Pole contact composition	3 NO	
Contact compatibility	M13	
Protective cover	With	
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	
Auxiliary contact composition	sition 1 NO + 1 NC	
[Ui] rated insulation voltage	ated 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

[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947	
Overvoltage category	III	
[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	
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	
Control circuit type	AC at 50/60 Hz	
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	
Average impedance	0.6 mOhm - Ith 200 A 50 Hz for power circuit	
Power dissipation per pole	24 W AC-1 13.5 W AC-3 13.5 W AC-3e	
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	
Maximum operating rate	1200 cyc/h 60 °C	
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)	
Insulation resistance	> 10 MOhm for signalling circuit	
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	
Mounting support	Rail Plate	
Electrical durability	0.85 Mcycles 150 A AC-3 at Ue <= 440 V 1 Mcycles 200 A AC-1 at Ue <= 440 V 0.85 Mcycles 150 A AC-3e at Ue <= 440 V	
Mechanical durability	8 Mcycles	
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	
Operating altitude	03000 m	
Compatibility code	LC1D	
Product certifications	CCC LROS (Lloyds register of shipping) GL GOST RINA CSA BV UL DNV UKCA CE	

Environment

Climatic withstand	conforming to IACS E10
Ambient air temperature for storage	-6080 °C
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	75 cm
Package 2 width	60 cm
Package 2 Length	80 cm
Package 3 Height	80 cm

Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
EU RoHS Directive	Compliant EU RoHS Declaration	
Mercury free	Yes	
RoHS exemption information	Yes	
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End of Life Information	
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	
PVC free	Yes	
California proposition 65	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

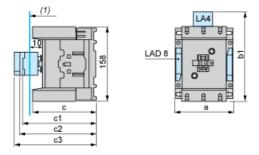
18 months

Product data sheet

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Dimensions Drawings

Dimensions



(1) Minimum electrical clearance

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

Product data sheet

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Connections and Schema

Wiring

