### LC1D150P7

Contactor, TeSys Deca, 3P(3NO), AC-3/AC-3e, <=440V, 150A, 230V AC 50/60Hz coil, screw clamp terminals





#### Main Range **TeSys** Range of product TeSys Deca Product or component Contactor type LC1D Device short name Contactor application Motor control Resistive load AC-3 Utilisation category AC-4 AC-1 AC-3e 3P Poles description [Ue] rated operational Power circuit: <= 1000 V AC 25...400 Hz voltage Power circuit: <= 300 V DC [le] rated operational 200 A (at <60 °C) at <= 440 V AC AC-1 for power current 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 [Uc] control circuit 230 V AC 50/60 Hz

#### 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)	
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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	
Compatibility code	LC1D	
Pole contact composition	3 NO	
Contact compatibility	M13	
Protective cover	With	
[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	

voltage

[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 100 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	
Power dissipation per pole	24 W AC-1 13.5 W AC-3 13.5 W AC-3e	
[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	
Overvoltage category	III	
Pollution degree	3	
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947	
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	
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	
Control circuit type	AC at 50/60 Hz standard	
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	
Operating time	2035 ms closing 4075 ms opening	
Maximum operating rate	1200 cyc/h 60 °C	
Connections - terminals	Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 12.5 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 12.5 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 12.5 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 1 12.5 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: solid without cable end Power circuit: connector 1 10120 mm² - cable stiffness: flexible without cable end Power circuit: connector 2 1050 mm² - cable stiffness: flexible with cable end Power circuit: connector 2 1050 mm² - cable stiffness: solid without cable end Power circuit: connector 1 10120 mm² - cable stiffness: solid without cable end Power circuit: connector 2 1050 mm² - cable stiffness: solid 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	

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 voltage	17 V for signalling circuit	
Minimum switching current	5 mA for signalling circuit	
Insulation resistance	> 10 MOhm for signalling circuit	
Non-overlap time	<ul><li>1.5 Ms on de-energisation between NC and NO contact</li><li>1.5 ms on energisation between NC and NO contact</li></ul>	
Mounting support	Plate Rail	

#### Environment

LIMIOHHEHL	
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	DNV GOST RINA UL CSA LROS (Lloyds register of shipping) GL CCC BV UKCA CE
IP degree of protection	IP20 front face conforming to IEC 60529
Protective treatment	TH conforming to IEC 60068-2-30
Climatic withstand	Conforming to IACS E10 exposure to damp heat
Permissible ambient air temperature around the device	-4060 °C 6070 °C with derating
Operating altitude	03000 m
Fire resistance	850 °C conforming to IEC 60695-2-1
Flame retardance	V1 conforming to UL 94
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

Facking Units	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	17.000 cm
Package 1 Width	18.500 cm
Package 1 Length	20.500 cm
Package 1 Weight	2.491 kg
Unit Type of Package 2	S04
Number of Units in Package 2	6
Package 2 Height	30.000 cm
Package 2 Width	40.000 cm
Package 2 Length	60.000 cm
Package 2 Weight	15.596 kg
Unit Type of Package 3	P06
Number of Units in Package 3	27
Package 3 Height	75.000 cm

Package 3 Width	80.000 cm	
Package 3 Length	60.000 cm	
Package 3 Weight	77.857 kg	

### Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	☑ REACh Declaration	
EU RoHS Directive	Compliant E EU RoHS Declaration	
Mercury free	Yes	
China RoHS Regulation	☐ China RoHS Declaration	
RoHS exemption information	₽¥Yes	
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	

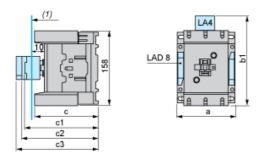
#### Contractual warranty

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Warranty	18 months

# Product data sheet Dimensions Drawings

## LC1D150P7

#### **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	

#### Wiring

