# LC1D150T7

IEC contactor, TeSys Deca, nonreversing, 150A, 100HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 480VAC 50/60Hz coil, open





Main	
Range	TeSys
Range of Product	TeSys Deca
Product or Component Type	Contactor
Device short name	LC1D
Contactor application	Motor control Resistive load
Utilisation category	AC-4 AC-3 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 <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 150 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 150 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit
[Uc] control circuit voltage	480 V AC 50/60 Hz

#### Complementary

114/	(2.14) (2.22 2.23) (4.2.2)	_
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)	
Maximum Horse Power Rating	40 Hp at 200/208 V AC 50/60 Hz for 3 phase motors	
-	50 Hp at 230/240 V AC 50/60 Hz for 3 phase motors	
	100 Hp at 460/480 V AC 50/60 Hz for 3 phase motors	
	125 hp at 575/600 V AC 50/60 Hz for 3 phase motors	
Compatibility code	LC1D	
Pole contact composition	3 NO	
Contact compatibility	M13	
Protective cover	With	
[Ith] conventional free air thermal current	200 A (at 140 °F (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 104 °F (40 °C) - 10 min for power circuit 580 A 104 °F (40 °C) - 1 min for power circuit 1200 A 104 °F (40 °C) - 10 s for power circuit 1400 A 104 °F (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
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[RETURN]Power circuit 600 V UL[RETURN]Power circuit 1000 V IEC 60947-4-1[RETURN]Signalling circuit 690 V IEC 60947-1[RETURN]Signalling circuit 600 V CSA[RETURN]Signalling circuit 600 V UL
Overvoltage category	III
Pollution degree	3
[Uimp] rated impulse withstand voltage	8 kV IEC 60947
Safety reliability level	B10d = 684932 cycles contactor with nominal load EN/ISO 13849-1 B10d = 10000000 cycles contactor with mechanical load EN/ISO 13849-1
Mechanical durability	8 Mcycles
Electrical durability	0.85 Mcycles 150 A AC-3 <= 440 V 1 Mcycles 200 A AC-1 <= 440 V 0.85 Mcycles 150 A AC-3e <= 440 V
Control circuit type	AC 50/60 Hz
Coil technology	Built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.30.5 Uc -40158 °F (-4070 °C) drop-out AC 50/60 Hz 0.81.15 Uc -40131 °F (-4055 °C) operational AC 50/60 Hz 11.15 Uc 131158 °F (5570 °C) operational AC 50/60 Hz
Inrush power in VA	280350 VA 60 Hz cos phi 0.9 (at 68 °F (20 °C)) 280350 VA 50 Hz cos phi 0.9 (at 68 °F (20 °C))
Hold-in power consumption in VA	218 VA 60 Hz cos phi 0.9 (at 68 °F (20 °C)) 218 VA 50 Hz cos phi 0.9 (at 68 °F (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 140 °F (60 °C)
Connections - terminals  Tightoning torque	Control circuit: screw clamp terminals 2 0.000.00 in² (12.5 mm²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 0.000.00 in² (12.5 mm²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 0.000.00 in² (12.5 mm²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 0.000.00 in² (12.5 mm²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 0.000.00 in² (12.5 mm²) - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 0.000.00 in² (12.5 mm²) - cable stiffness: solid without cable end Power circuit: connector 1 0.020.19 in² (10120 mm²) - cable stiffness: flexible without cable end Power circuit: connector 2 0.020.08 in² (1050 mm²) - cable stiffness: flexible with cable end Power circuit: connector 2 0.020.19 in² (10120 mm²) - cable stiffness: flexible with cable end Power circuit: connector 1 0.020.19 in² (10120 mm²) - cable stiffness: solid without cable end Power circuit: connector 2 0.020.08 in² (1050 mm²) - cable stiffness: solid without cable end Power circuit: connector 1 0.020.19 in² (10120 mm²) - cable stiffness: solid without cable end
Tightening torque	Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals flat Ø 6 mm Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 106.21 lbf.in (12 N.m) connector hexagonal 0.16 in (4 mm) Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals pozidriv No 2
Auxiliary contact composition	1 NO + 1 NC
Auxiliary contacts type	Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC 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	1.5 Ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact
Mounting Support	Rail Plate

#### Environment

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[RETURN]LROS (Lloyds register of shipping) [RETURN]GL[RETURN]UL[RETURN]GOST[RETURN]BV[RETURN]RINA[RETURN]CCC[RE
IP degree of protection	IP20 front face IEC 60529
Protective treatment	THIEC 60068-2-30
Climatic withstand	IACS E10 exposure to damp heat
Permissible ambient air temperature around the device	-40…140 °F (-40…60 °C) 140…158 °F (60…70 °C) with derating
Operating altitude	09842.52 ft (03000 m)
Fire resistance	1562 °F (850 °C) 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	6.22 in (158 mm)
Width	4.72 in (120 mm)
Depth	5.35 in (136 mm)
Net Weight	5.51 lb(US) (2.5 kg)

# Ordering and shipping details

Category	US10I1222359
Discount Schedule	0112
GTIN	3389110479287
Returnability	Yes
Country of origin	CZ

# Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.61 in (16.8 cm)
Package 1 Width	8.19 in (20.8 cm)
Package 1 Length	7.28 in (18.5 cm)
Package 1 Weight	5.38 lb(US) (2.44 kg)

### Offer Sustainability

Sustainable offer status	Green Premium product
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
REACh Regulation	☐ REACh Declaration
EU RoHS Directive	Compliant with Exemptions
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	
Warranty	18 months