

Product data sheet Characteristics

LC1D50AG7TQ

contactor TeSys LC1-D - 3 poles- AC-3 - 440 V 50 A - coil 120 V AC





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-1 AC-3 AC-3e AC-3 AC-2
Poles description	3P
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25400 Hz
[le] rated operational current	50 A (at <60 °C) at <= 440 V AC AC-3e for power circuit 50 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 80 A (at <60 °C) at <= 440 V AC AC-1 for power circuit
[Uc] control circuit voltage	220 V AC 50/60 Hz

Complementary

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Motor power kW	30 KW at 440 V AC 50 Hz (AC-3)	
	30 KW at 500 V AC 50 Hz (AC-3)	
	33 KW at 660690 V AC 50 Hz (AC-3)	
	15 KW at 220230 V AC 50 Hz (AC-3)	
	11 KW at 400 V AC 50 Hz (AC-4)	
	22 KW at 380400 V AC 50 Hz (AC-3e)	
	25 KW at 415 V AC 50 Hz (AC-3e)	
	30 KW at 440 V AC 50 Hz (AC-3e)	
	30 KW at 500 V AC 50 Hz (AC-3e)	
	33 KW at 660690 V AC 50 Hz (AC-3e)	
	15 KW at 220230 V AC 50 Hz (AC-3e)	
	22 KW at 380400 V AC 50 Hz (AC-3)	
	25 kW at 415 V AC 50 Hz (AC-3)	
Motor power hp	15 Hp at 200/208 V AC 60 Hz for 3 phases motors	
	15 Hp at 230/240 V AC 60 Hz for 3 phases motors	
	40 Hp at 460/480 V AC 60 Hz for 3 phases motors	
	40 Hp at 575/600 V AC 60 Hz for 3 phases motors	
	3 Hp at 115 V AC 60 Hz for 1 phase motors	
	7.5 hp at 230/240 V AC 60 Hz for 1 phase motors	
Compatibility code	LC1D	
Pole contact composition	3 NO	
Protective cover	With	
[Ith] conventional free air thermal current	10 A (at 60 °C) for control circuit	
	80 A (at 60 °C) for power circuit	
Irms rated making capacity	900 A at 440 V for power circuit conforming to IEC 60947	
3 , 1 , 3	140 A AC for control circuit conforming to IEC 60947-5-1	
Rated breaking capacity	900 A at 440 V for power circuit conforming to IEC 60947	

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Associated fuse rating	100 A gG at <= 690 V coordination type 2 for power circuit 10 A gG for control circuit conforming to IEC 60947-5-1 100 A gG at <= 690 V coordination type 1 for power circuit	
Power dissipation per pole	3.7 W AC-3e 3.7 W AC-3 9.6 W AC-1	
[Ui] rated insulation voltage	Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Control circuit: 690 V conforming to IEC 60947-1 Power circuit: 690 V conforming to IEC 60947-1 Control circuit: 600 V CSA certified Control circuit: 600 V UL certified	
Overvoltage category	III	
[Uimp] rated impulse withstand voltage	6 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	6000000 cycles	
Control circuit type	AC at 50/60 Hz	
Coil technology	Without built-in bidirectional peak limiting diode suppressor	
Control circuit voltage limits	11.1 Uc (6070 °C):operational AC 60 Hz 0.30.6 Uc (-4070 °C):drop-out AC 50/60 Hz 0.81.1 Uc (-4060 °C):operational AC 50 Hz	
Inrush power in VA	140 VA cos phi 0.75 (at 20 °C) 160 VA cos phi 0.75 (at 20 °C)	
Hold-in power consumption in VA	13 VA 60 Hz cos phi 0.3 (at 20 °C) 15 VA 50 Hz cos phi 0.3 (at 20 °C)	
Heat dissipation	45 W at 50/60 Hz for control circuit	
Operating time	419 ms opening 1226 ms closing	
Maximum operating rate	3600 cyc/h 60 °C	
Tightening torque	without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with cable end Power circuit: EverLink BTR screw connectors 1 135 mm² - cable stiffness: rigid Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: rigid Power circuit: EverLink BTR screw connectors 1 135 mm² - cable stiffness: flexible without cable end Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: flexible without cable end Power circuit: EverLink BTR screw connectors 1 135 mm² - cable stiffness: flexible with cable end Power circuit: EverLink BTR screw connectors 1 135 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: rigid Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: rigid Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 125 mm² - with screwdriver hex (Allen key)4 mm Power circuit: 8 N.m - on EverLink BTR screw connectors - cable 35 mm² - with	
Auxiliary contact composition	screwdriver hex (Allen key)4 mm Control circuit: 1.7 N.m - on screw clamp terminal - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - on screw clamp terminal - with screwdriver Philips No 2 1 NO + 1 NC	
Auxiliary contact composition 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	
Minimum switching voltage	17 V for control circuit	
Minimum switching current	5 mA for control circuit	
Insulation resistance Non-overlap time	> 10 MOhm for control circuit 1.5 Ms on de-energisation between NC and NO contacts	
Mounting gunner	1.5 ms on energisation between NC and NO contacts Plate	
Mounting support		

Environment

Standards	UL 508 EN 60947-4-1 CSA C22.2 No 14 IEC 60947-5-1	
Product certifications	RINA[RETURN]CCC[RETURN]GOST[RETURN]BV[RETURN]LROS (pending) [RETURN]UL[RETURN]CSA[RETURN]UKCA[RETURN]GL[RETURN]LROS (pending)	
IP degree of protection	IP2X conforming to IEC 60529 IP2X conforming to VDE 0106	
Climatic withstand	Conforming to IACS E10 exposure to damp heat Conforming to IEC 60947-1 Annex Q category D exposure to damp heat	
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 opened (2 Gn, 5300 Hz) Vibrations contactor closed (4 Gn, 5300 Hz) Shocks contactor opened (10 Gn for 11 ms) Shocks contactor closed (15 Gn for 11 ms)	
Height	122 mm	
Width	55 mm	
Depth	120 mm	
Net weight	1.4 kg	
Quantity per set	Set of 10	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.2 cm
Package 1 Width	13.7 cm
Package 1 Length	15.2 cm
Package 1 Weight	1.046 kg

Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	☑REACh Declaration	
REACh free of SVHC	Yes	
EU RoHS Directive	Compliant EU RoHS Declaration	
Toxic heavy metal free	Yes	
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

- Contractadi Warranty		
Warranty	18 months	