

Product data sheet Characteristics

LC1D656BD

contactor TeSys LC1-D - 3 poles - AC-3 440V 65 A - coil 24 V DC





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-3 AC-4 AC-2 AC-1
Poles description	3P
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25400 Hz
[le] rated operational current	80 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 65 A (at <60 °C) at <= 440 V AC AC-3 for power circuit
[Uc] control circuit voltage	24 V DC

Complementary

Complementary		
Motor power kW	30 KW at 440 V AC 50 Hz	
	30 KW at 380400 V AC 50 Hz	
	37 KW at 500 V AC 50 Hz	
	37 KW at 660690 V AC 50 Hz	
	18.5 KW at 220230 V AC 50 Hz	
	30 KW at 415 V AC 50 Hz	
	37 kW at 1000 V AC 50 Hz	
Motor power hp	5 Hp at 115 V AC 60 Hz for 1 phase motors	
	10 Hp at 230/240 V AC 60 Hz for 1 phase motors	
	20 Hp at 200/208 V AC 60 Hz for 3 phases motors	
	20 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	
	50 hp at 575/600 V AC 60 Hz for 3 phases 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	250 A DC for control circuit conforming to IEC 60947-5-1	
	1000 A at 440 V for power circuit conforming to IEC 60947	
Rated breaking capacity	1000 A at 440 V for power circuit conforming to IEC 60947	
Associated fuse rating	10 A gG for control circuit conforming to IEC 60947-5-1	
	125 A gG at <= 690 V coordination type 1 for power circuit	
	125 A gG at <= 690 V coordination type 2 for power circuit	
Power dissipation per pole	4.2 W AC-3	
	6.4 W AC-1	

[Ui] rated insulation voltage	Control circuit: 600 V CSA certified Control circuit: 600 V UL certified 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	
Overvoltage category	III	
[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/ISC 13849-1	
Mechanical durability	10000000 cycles	
Control circuit type	DC standard	
Coil technology	Built-in bidirectional peak limiting diode suppressor	
Control circuit voltage limits	0.10.3 Uc (-4070 °C):drop-out DC 0.751.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC	
Inrush power in W	19 W (at 20 °C)	
Hold-in power consumption in W	7.4 W at 20 °C	
Rated operational power in W	14 W at 24 V DC-13 - electrical durability: 10000000 cycles - for control circulum 48 W at 24 V DC-13 - electrical durability: 3000000 cycles - for control circuit 96 W at 24 V DC-13 - electrical durability: 1000000 cycles - for control circuit	
Operating time	20 ms opening 50 ms closing	
Time constant	34 ms	
Maximum operating rate	3600 cyc/h 60 °C	
Connections - terminals	Control circuit: lugs - external diameter: 8 mm Power circuit: lugs - external diameter: 16 mm	
Tightening torque	Control circuit: 1.7 N.m - on lugs - with screwdriver Philips No 2 Control circuit: 1.7 N.m - on lugs - with screwdriver flat Ø 6 mm Power circuit: 2.5 N.m - on lugs - with screwdriver flat Ø 8 mm Control circuit: 1.7 N.m - on lugs - with screwdriver pozidriv No 2	
Auxiliary contact composition	1 NO + 1 NC	
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	> 10 MOhm for control circuit	
Non-overlap time	1.5 Ms on de-energisation between NC and NO contacts1.5 ms on energisation between NC and NO contacts	
Mounting support	Plate Rail	
Environment		
Standards	CSA C22.2 No 14	
	IEC 60947-5-1 UL 508 EN 60947-4-1 IEC 60947-4-1	

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	IEC 60947-5-1	
	UL 508	
	EN 60947-4-1	
	IEC 60947-4-1	
	EN 60947-5-1	
Product certifications	BV[RETURN]CCC[RETURN]GL[RETURN]CSA[RETURN]LROS (Lloyds register of shipping)[RETURN]RINA[RETURN]GOST[RETURN]DNV[RETURN]UL	
IP degree of protection	IP2X conforming to IEC 60529	
	IP2X conforming to VDE 0106	
Climatic withstand	Conforming to IACS E10 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	Shocks contactor opened (10 Gn for 11 ms)	
	Shocks contactor closed (15 Gn for 11 ms)	
	Vibrations contactor opened (2 Gn, 5300 Hz)	
	Vibrations contactor closed (4 Gn, 5300 Hz)	
Height	127 mm	
Width	85 mm	

Depth	176 mm	
Net weight	2.185 kg	
Packing Units		
Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	9 cm	
Package 1 Width	14.5 cm	
Package 1 Length	18 cm	
Package 1 Weight	2.175 kg	
Sustainable offer status REACh free of SVHC	Green Premium product Yes	
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EU RoHS Directive	Compliant EEU 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

Outractual warranty		
Warranty	18 months	