

TeSys Deca contactor,3P(3NO),AC-3/ AC-3e,<=440V 9A,24V DC coil

LC1D09BD

Range	TeSys TeSys Deca
Range of product	TeSys D TeSys Deca
Product or component type	Contactor
Device short name	LC1D
Contactor application	Motor control Resistive load
Utilisation category	AC-4 AC-1 AC-3 AC-3e
Poles description	3P
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC
[le] rated operational current	9 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 25 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 9 A (at <60 °C) at <= 440 V AC AC-3e for power circuit

Complementary

Motor power kW	2.2 kW at 220230 V AC 50/60 Hz (AC-3)	
	4 kW at 380400 V AC 50/60 Hz (AC-3)	
	4 kW at 415440 V AC 50/60 Hz (AC-3)	
	5.5 kW at 500 V AC 50/60 Hz (AC-3)	
	5.5 kW at 660690 V AC 50/60 Hz (AC-3)	
	2.2 kW at 400 V AC 50/60 Hz (AC-4)	
	2.2 kW at 220230 V AC 50/60 Hz (AC-3e)	
	4 kW at 380400 V AC 50/60 Hz (AC-3e)	
	4 kW at 415440 V AC 50/60 Hz (AC-3e)	
	5.5 kW at 500 V AC 50/60 Hz (AC-3e)	
	5.5 kW at 660690 V AC 50/60 Hz (AC-3e)	
Motor power hp	1 hp at 230/240 V AC 50/60 Hz for 1 phase motors	
·	2 hp at 200/208 V AC 50/60 Hz for 3 phases motors	
	2 hp at 230/240 V AC 50/60 Hz for 3 phases motors	
	5 hp at 460/480 V AC 50/60 Hz for 3 phases motors	
	7.5 hp at 575/600 V AC 50/60 Hz for 3 phases motors	
	0.33 hp at 115 V AC 50/60 Hz for 1 phase motors	
Pole contact composition	3 NO	
Contact compatibility	M4	
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	1 NO + 1 NC	

[Ui] rated insulation voltage	Power circuit: 690 V conforming to IEC 60947-4-1 Power circuit: 600 V CSA certified Power circuit: 600 V UL certified 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	6 kV conforming to IEC 60947			
Overvoltage category	III			
[Ith] conventional free air thermal current	25 A (at 60 °C) for power circuit 10 A (at 60 °C) for signalling circuit			
Irms rated making capacity	250 A at 440 V for power circuit conforming to IEC 60947 140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1			
Rated breaking capacity	250 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 25 A gG at <= 690 V coordination type 1 for power circuit 20 A gG at <= 690 V coordination type 2 for power circuit			
Time constant	28 ms			
Control circuit type	DC standard			
Coil technology	Built-in bidirectional peak limiting diode suppressor			
Control circuit voltage limits	0.10.25 Uc (-4070 °C):drop-out DC 0.71.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC			
Average impedance	2.5 mOhm - Ith 25 A 50 Hz for power circuit			
Power dissipation per pole	1.56 W AC-1 0.2 W AC-3 0.2 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	3600 cyc/h 60 °C			
Inrush power in W	5.4 W (at 20 °C)			
Hold-in power consumption in W	5.4 W at 20 °C			
Insulation resistance	> 10 MOhm for signalling circuit			
Tightening torque	Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2			
Mounting support	Plate Rail			
Electrical durability	0.6 Mcycles 25 A AC-1 at Ue <= 440 V 2 Mcycles 9 A AC-3 at Ue <= 440 V 2 Mcycles 9 A AC-3e at Ue <= 440 V			
Mechanical durability	30 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	LROS (Lloyds register of shipping) CSA UL GOST DNV CCC GL BV			

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Climatic withstand	conforming to IACS E10 conforming to IEC 60947-1 Annex Q category D	
Ambient air temperature for storage	-6080 °C	
Fire resistance	850 °C conforming to IEC 60695-2-1	
Height	77 mm	
Width	45 mm	
Depth	95 mm	
Net weight	0.48 kg	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	519 g
Package 1 Height	5 cm
Package 1 width	9.2 cm
Package 1 Length	11.1 cm
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Weight	8.08 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm
Unit Type of Package 3	P06
Number of Units in Package 3	240
Package 3 Weight	137.28 kg
Package 3 Height	75 cm
Package 3 width	60 cm
Package 3 Length	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
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

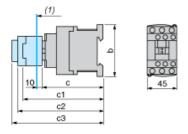
18 months

Product data sheet

LC1D09BD

Dimensions Drawings

Dimensions



(1) Minimum electrical clearance

LC1		D09D18	D093D123	D099D129
b		77	99	80
С	without cover or add-on blocks	93	93	93
	with cover, without add-on blocks	95	95	95
c1	with LAD N or C (2 or 4 contacts)	126	126	126
c2	with LA6 DK10	138	138	138
с3	with LAD T, R, S	146	146	146
	with LAD T, R, S and sealing cover	150	150	150

Product data sheet

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Connections and Schema

Wiring

