



TeSys D contactor - 3P(3 NO) -AC-3 - <= 440 V 18 A - 24 V DC coil

Local distributor code: 381803052 LC1D18BD

EAN Code: 3389110354775

Main

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	18 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 32 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 18 A (at <60 °C) at <= 440 V AC AC-3e for power circuit

4 kW at 220230 V AC 50/60 Hz (AC-3)	
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10 kW at 660690 V AC 50/60 Hz (AC-3e)	
1 hp at 115 V AC 50/60 Hz for 1 phase motors	
3 hp at 230/240 V AC 50/60 Hz for 1 phase motors	
5 hp at 200/208 V AC 50/60 Hz for 3 phases motors	
5 hp at 230/240 V AC 50/60 Hz for 3 phases motors	
10 hp at 460/480 V AC 50/60 Hz for 3 phases motors	
15 hp at 575/600 V AC 50/60 Hz for 3 phases motors	
3 NO	
M4	
With	
type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1	
type mirror contact 1 NC conforming to IEC 60947-4-1	
1 NO + 1 NC	
	7.5 kW at 380400 V AC 50/60 Hz (AC-3) 9 kW at 415440 V AC 50/60 Hz (AC-3) 10 kW at 500 V AC 50/60 Hz (AC-3) 10 kW at 660690 V AC 50/60 Hz (AC-3) 4 kW at 400 V AC 50/60 Hz (AC-4) 4 kW at 220230 V AC 50/60 Hz (AC-3e) 7.5 kW at 380400 V AC 50/60 Hz (AC-3e) 9 kW at 415440 V AC 50/60 Hz (AC-3e) 10 kW at 500 V AC 50/60 Hz (AC-3e) 10 kW at 660690 V AC 50/60 Hz (AC-3e) 11 hp at 115 V AC 50/60 Hz for 1 phase motors 3 hp at 230/240 V AC 50/60 Hz for 1 phase motors 5 hp at 200/208 V AC 50/60 Hz for 3 phases motors 10 hp at 460/480 V AC 50/60 Hz for 3 phases motors 10 hp at 460/480 V AC 50/60 Hz for 3 phases motors 15 hp at 575/600 V AC 50/60 Hz for 3 phases motors 3 NO M4 With type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to IEC 60947-4-1

[Ui] rated insulation voltage	Power circuit: 690 V conforming to IEC 60947-4-1 Power circuit: 600 V CSA certified		
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947		
Overvoltage category	III		
[Ith] conventional free air thermal current	10 A (at 60 °C) for signalling circuit 32 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 60947-5-1 300 A at 440 V for power circuit conforming to IEC 60947		
Rated breaking capacity	300 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 50 A gG at <= 690 V coordination type 1 for power circuit 35 A gG at <= 690 V coordination type 2 for power circuit		
Time constant	28 ms		
Control circuit type	DC standard		
Coil technology	With integral suppression device		
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 32 A 50 Hz for power circuit		
Power dissipation per pole	2.5 W AC-1 0.8 W AC-3 0.8 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	1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1 Mcycles 32 A AC-1 at Ue <= 440 V 1.65 Mcycles 18 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) DNV GL RINA BV CCC UL CSA		

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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
Mechanical robustness	Vibrations contactor open: 2 Gn, 5300 Hz Vibrations contactor closed: 4 Gn, 5300 Hz Shocks contactor open: 10 Gn for 11 ms Shocks contactor closed: 15 Gn for 11 ms
Height	77 mm
Width	45 mm
Depth	95 mm
Net weight	0.49 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	522.5 g
Package 1 Height	5 cm
Package 1 width	9 cm
Package 1 Length	11 cm
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Weight	8.068 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm
Package 3 Height	75.0 cm

Offer Sustainability

Green Premium product
REACh Declaration
Compliant EU RoHS Declaration
Yes
Yes
China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
Product Environmental Profile
End of Life Information
Yes

Contractual warranty

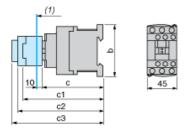
Warranty	18 months

Product datasheet

LC1D18BD

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 datasheetConnections and Schema

LC1D18BD

Wiring

