LC1D32BL

Contactor, TeSys Deca, 3P(3NO), AC-3/AC-3e, <=440V, 32A, 24V DC low consumption coil, screw clamp terminals





Main

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-1 AC-4 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	32 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 50 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 32 A (at <60 °C) at <= 440 V AC AC-3e for power circuit
[Uc] control circuit voltage	24 V DC

Complementary

Motor power kW	7.5 KW at 220230 V AC 50/60 Hz (AC-3)	
•	15 KW at 380400 V AC 50/60 Hz (AC-3)	
	15 KW at 415440 V AC 50/60 Hz (AC-3)	
	18.5 KW at 500 V AC 50/60 Hz (AC-3)	
	18.5 KW at 660690 V AC 50/60 Hz (AC-3)	
	7.5 KW at 400 V AC 50/60 Hz (AC-4)	
	7.5 KW at 220230 V AC 50/60 Hz (AC-3e)	
	15 KW at 380400 V AC 50/60 Hz (AC-3e)	
	15 KW at 415440 V AC 50/60 Hz (AC-3e)	
	18.5 KW at 500 V AC 50/60 Hz (AC-3e)	
	18.5 kW at 660690 V AC 50/60 Hz (AC-3e)	
Motor power hp	2 Hp at 115 V AC 50/60 Hz for 1 phase motors	
	5 Hp at 230/240 V AC 50/60 Hz for 1 phase motors	
	10 Hp at 200/208 V AC 50/60 Hz for 3 phases motors	
	10 Hp at 230/240 V AC 50/60 Hz for 3 phases motors	
	20 Hp at 460/480 V AC 50/60 Hz for 3 phases motors	
	25 hp at 575/600 V AC 50/60 Hz for 3 phases motors	
Compatibility code	LC1D	
Pole contact composition	3 NO	
Protective cover	With	
[lth] conventional free air thermal current	10 A (at 60 °C) for signalling circuit	
	50 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	
	550 A at 440 V for power circuit conforming to IEC 60947	
Rated breaking capacity	550 A at 440 V for power circuit conforming to IEC 60947	-

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[Icw] rated short-time withstand current	260 A 40 °C - 10 s for power circuit 430 A 40 °C - 1 s for power circuit 60 A 40 °C - 10 min for power circuit 138 A 40 °C - 1 min for power circuit 100 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 63 A gG at <= 690 V coordination type 1 for power circuit 63 A gG at <= 690 V coordination type 2 for power circuit	
Average impedance	2 mOhm - Ith 50 A 50 Hz for power circuit	
Power dissipation per pole	2 W AC-3 5 W AC-1 2 W AC-3e	
[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	
Overvoltage category	III	
Pollution degree	3	
[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	30 Mcycles	
Electrical durability	1.65 Mcycles 32 A AC-3 at Ue <= 440 V 1.4 Mcycles 50 A AC-1 at Ue <= 440 V 1.65 Mcycles 32 A AC-3e at Ue <= 440 V	
Control circuit type	DC low consumption	
Coil technology	Built-in bidirectional peak limiting diode suppressor	
Control circuit voltage limits	0.10.3 Uc (-4070 °C):drop-out DC 0.81.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC	
Inrush power in W	2.4 W (at 20 °C)	
Hold-in power consumption in W	2.4 W at 20 °C	
Operating time	77 ±15 % ms closing 25 ±20 % ms opening	
Time constant	40 ms	
Maximum operating rate Connections - terminals	3600 cyc/h 60 °C Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible	
	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 Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 2.510 mm² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 110 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 1.56 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 1.510 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 2.510 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 2.510 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 2.510 mm² - cable stiffness: solid without cable end	

Tightening torque	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	
	Power circuit: 2.5 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm	
	Power circuit: 2.5 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: 2.5 N.m - on screw clamp terminals - 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	
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	Plate	
	Rail	

Environment

Standards	CSA C22.2 No 14	
- C.	EN 60947-4-1	
	EN 60947-5-1	
	IEC 60947-4-1	
	IEC 60947-5-1	
	UL 508	
	IEC 60335-1	
Product certifications	GL[RETURN]BV[RETURN]DNV[RETURN]LROS (Lloyds register of shipping) [RETURN]RINA[RETURN]UL[RETURN]CCC[RETURN]CSA[RETURN]GOST[RETURN]UL	
IP degree of protection	IP20 front face conforming to IEC 60529	
Protective treatment	TH conforming to IEC 60068-2-30	
Climatic withstand	Conforming to IACS E10 exposure to damp heat	
	Conforming to IEC 60947-1 Annex Q category D exposure to damp heat	
Permissible ambient air temperature around the	-4060 °C	
device	6070 °C with derating	
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 open (2 Gn, 5300 Hz)	
	Vibrations contactor closed (4 Gn, 5300 Hz)	
	Shocks contactor closed (15 Gn for 11 ms)	
	Shocks contactor open (8 Gn for 11 ms)	
Height	85 mm	
Width	45 mm	
Depth	101 mm	
Net weight	0.535 kg	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.000 cm
Package 1 Width	9.300 cm
Package 1 Length	11.300 cm
Package 1 Weight	590.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	9.144 kg
Unit Type of Package 3	P06
Number of Units in Package 3	240

Package 3 Height	75.000 cm	
Package 3 Width	60.000 cm	
Package 3 Length	80.000 cm	
Package 3 Weight	154.576 kg	

Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
EU RoHS Directive	Compliant with Exemptions	
China RoHS Regulation	China RoHS Declaration	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End Of Life Information	
WEEE	The product must be disposed on European Union markets following specif waste collection and never end up in rubbish bins	
PVC free	Yes	

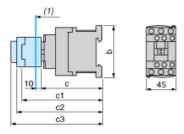
Contractual warranty

Warranty	10
warranty	18 months
Transfer	10 months

Product data sheet Dimensions Drawings

LC1D32BL

Dimensions



(1) Minimum electrical clearance

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LC1		D25D38	D183D323
b		85	99
С	without cover or add-on blocks	99	99
with cover, without add- on blocks	101	101	
c1	with LAD N or C (2 or 4 contacts)	132	132
c2	with LA6 DK10	144	144
c3	with LAD T, R, S	152	152
with LAD T, R, S and sealing cover	156	156	

Wiring

