

TeSys Deca contactor,3P(3NO),AC-3/ AC-3e,<=440V 18A,220V AC coil

LC1D18M7

Range	TeSys TeSys Deca
Range of product	TeSys D TeSys Deca
Product or component type	Contactor
Device short name	LC1D
Contactor application	Resistive load Motor control
Utilisation category	AC-1 AC-4 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

Complementary		
Motor power kW	4 kW at 220230 V AC 50/60 Hz (AC-3)	
•	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)	
Motor power hp	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	
Pole contact composition	3 NO	
Contact compatibility	M2	
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			
[lth] 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			
Control circuit type	AC at 50/60 Hz			
Coil technology	Without built-in suppressor module			
Control circuit voltage limits	0.30.6 Uc (-4070 °C):drop-out AC 50/60 Hz 0.81.1 Uc (-4060 °C):operational AC 50 Hz 0.851.1 Uc (-4060 °C):operational AC 60 Hz 11.1 Uc (6070 °C):operational AC 50/60 Hz			
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 VA	70 VA 60 Hz cos phi 0.75 (at 20 °C) 70 VA 50 Hz cos phi 0.75 (at 20 °C)			
Hold-in power consumption in VA	7.5 VA 60 Hz cos phi 0.3 (at 20 °C) 7 VA 50 Hz cos phi 0.3 (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	15 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	GOST UL RINA CCC DNV BV GL CSA LROS (Lloyds register of shipping)			

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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	86 mm	
Net weight	0.33 kg	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	352.0 g
Package 1 Height	5.0 cm
Package 1 width	9.2 cm
Package 1 Length	11.2 cm
Unit Type of Package 2	S02
Number of Units in Package 2	20
Package 2 Weight	7.338 kg
Package 2 Height	15.0 cm
Package 2 width	30.0 cm
Package 2 Length	40.0 cm
Unit Type of Package 3	P06
Number of Units in Package 3	320
Package 3 Weight	124.976 kg
Package 3 Height	75.0 cm
Package 3 width	60.0 cm
Package 3 Length	80.0 cm

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
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration

Pro-active China RoHS declaration (out of China RoHS legal scope)

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		
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

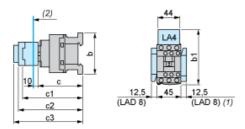
Warranty	18 months
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Product data sheet

LC1D18M7

Dimensions Drawings

Dimensions



Including LAD 4BB Minimum electrical clearance (1) (2)

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	D09D18	D093D123	D099D129
without add-on blocks	77	99	80
with LAD 4BB	94	107	95.5
with LA4 D●2	110 ⁽¹⁾	123 ⁽¹⁾	111.5 ⁽¹⁾
with LA4 DF, DT	119 ⁽¹⁾	132 ⁽¹⁾	120.5 ⁽¹⁾
with LA4 DW, DL	126 ⁽¹⁾	139 ⁽¹⁾	127.5 ⁽¹⁾
without cover or add-on blocks	84	84	84
with cover, without add-on blocks	86	86	86
with LAD N or C (2 or 4 contacts)	117	117	117
with LA6 DK10, LAD 6K10	129	129	129
with LAD T, R, S	137	137	137
with LAD T, R, S and sealing cover	141	141	141
Including LAD 4BB.	·		
	with LAD 4BB with LA4 D●2 with LA4 DF, DT with LA4 DW, DL without cover or add-on blocks with cover, without add-on blocks with LAD N or C (2 or 4 contacts) with LA6 DK10, LAD 6K10 with LAD T, R, S with LAD T, R, S and sealing cover	without add-on blocks77with LAD 4BB94with LA4 D●2110(1)with LA4 DF, DT119(1)with LA4 DW, DL126(1)without cover or add-on blocks84with cover, without add-on blocks86with LAD N or C (2 or 4 contacts)117with LA6 DK10, LAD 6K10129with LAD T, R, S137with LAD T, R, S and sealing cover141	with out add-on blocks 77 99 with LAD 4BB 94 107 with LA4 D●2 110(1) 123(1) with LA4 DF, DT 119(1) 132(1) with LA4 DW, DL 126(1) 139(1) without cover or add-on blocks 84 84 with cover, without add-on blocks 86 86 with LAD N or C (2 or 4 contacts) 117 117 with LAB DK10, LAD 6K10 129 129 with LAD T, R, S 137 137 with LAD T, R, S and sealing cover 141 141

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Connections and Schema

Wiring

