



## TeSys Deca contactor - 4P(2 NO + 2 NC) - AC-1 - <= 440 V 32 A - 220 V AC coil

LC1D188M7



Main						
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Main	
Range	TeSys TeSys Deca
Product name	TeSys D TeSys Deca
Product or component type	Contactor
Device short name	LC1D
Contactor application	Resistive load
Utilisation category	AC-1
Poles description	4P
Power pole contact composition	2 NO + 2 NC
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25400 Hz
[le] rated operational current	32 A (at <60 °C) at <= 440 V AC AC-1 for power circuit
Control circuit type	AC at 50/60 Hz
[Uc] control circuit voltage	220 V AC 50/60 Hz
Auxiliary contact composition	1 NO + 1 NC
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947
Overvoltage category	
[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
[Icw] rated short-time withstand current	145 A 40 °C - 10 s for power circuit 240 A 40 °C - 1 s for power circuit 40 A 40 °C - 10 min for power circuit 84 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 50 A gG at <= 690 V coordination type 1 for power circuit 35 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	2.5 mOhm - Ith 32 A 50 Hz for power circuit
[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
Electrical durability	1 Mcycles 32 A AC-1 at Ue <= 440 V
Power dissipation per pole	2.5 W AC-1
Front cover	With
Mounting support	Rail Plate
Standards	EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 60947-5-1 CSA C22.2 No 60947-4-1 CSA C22.2 No 60947-5-1 GB/T 14048.4
Product certifications	UL CSA CCC EAC UKCA CB EU-RO-MR by DNV-GL
Connections - terminals	Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²solid without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²solid without cable end Power circuit: connector 1 cable(s) 2.510 mm²flexible without cable end Power circuit: connector 2 cable(s) 2.510 mm²flexible with cable end Power circuit: connector 2 cable(s) 2.510 mm²flexible with cable end Power circuit: connector 2 cable(s) 2.510 mm²flexible with cable end Power circuit: connector 1 cable(s) 2.516 mm²solid without cable end Power circuit: connector 2 cable(s) 2.516 mm²solid 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: 1.7 N.m - on connector - with screwdriver flat Ø 6 mm Power circuit: 1.7 N.m - on connector - 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
Operating time	1222 ms closing 419 ms opening
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	15 Mcycles
Maximum operating rate	3600 cyc/h 60 °C
Complementary	
Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.30.6 Uc (-4060 °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
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)
Heat dissipation	23 W at 50/60 Hz
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 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

Environment  IP degree of protection  Climatic withstand  Protective treatment  Pollution degree  Ambient air temperature for operation  Ambient air temperature for storage  Operating altitude  Fire resistance	0 MOhm for signalling circuit  0 front face conforming to IEC 60529  Informing to IACS E10 Informing to IEC 60947-1 Annex Q category D  conforming to IEC 60068-2-30 60 °C70 °C with derating
IP degree of protection  Climatic withstand  Concord  Protective treatment  TH  Pollution degree  Ambient air temperature for operation  Ambient air temperature for storage  Operating altitude  Fire resistance	informing to IACS E10 informing to IEC 60947-1 Annex Q category D  conforming to IEC 60068-2-30 60 °C70 °C with derating
IP degree of protection  Climatic withstand  Concord  Protective treatment  TH  Pollution degree  Ambient air temperature for operation  Ambient air temperature for storage  Operating altitude  Fire resistance	informing to IACS E10 informing to IEC 60947-1 Annex Q category D  conforming to IEC 60068-2-30 60 °C70 °C with derating
Climatic withstand concon  Protective treatment TH  Pollution degree 3  Ambient air temperature for operation 60.  Ambient air temperature for storage -60  Operating altitude 0	informing to IACS E10 informing to IEC 60947-1 Annex Q category D  conforming to IEC 60068-2-30 60 °C70 °C with derating
Protective treatment TH Pollution degree 3 Ambient air temperature for operation 60. Ambient air temperature for storage Operating altitude 60 Fire resistance 850	conforming to IEC 60947-1 Annex Q category D  conforming to IEC 60068-2-30 60 °C70 °C with derating
Pollution degree 3  Ambient air temperature for operation 60.  Ambient air temperature for storage -60  Operating altitude 0	60 °C 70 °C with derating
Ambient air temperature for operation 60.  Ambient air temperature for storage -60  Operating altitude 0	70 °C with derating
operation 60.  Ambient air temperature for storage  Operating altitude 0  Fire resistance 850	70 °C with derating
Storage Operating altitude 0 Fire resistance 850	80 °C
Fire resistance 850	
	3000 m
	0 °C conforming to IEC 60695-2-1
Vib Sho	rations contactor open: 2 Gn, 5300 Hz rations contactor closed: 4 Gn, 5300 Hz pocks contactor open: 10 Gn for 11 ms pocks contactor closed: 15 Gn for 11 ms
Height 105	5 mm
Width 45	mm
Depth 99	mm
Net weight 0.43	25 kg
Packing Units	
Unit Type of Package 1 PC	E
Number of Units in Package 1 1	
Package 1 Weight 364	1.0 g
Package 1 Height 4.9	cm
Package 1 width 11.	1 cm
Package 1 Length 8.9	cm
Unit Type of Package 2 S02	2
Number of Units in Package 2 15	
Package 2 Weight 5.9	15 kg
Package 2 Height 15 of	cm
Package 2 width 30	cm
Package 2 Length 40	cm
Unit Type of Package 3	3
Number of Units in Package 3 240	
Package 3 Weight 103	3.14 kg
Package 3 Height 77	cm
Package 3 width 80 c	cm
Package 3 Length 60 o	cm
Offer Sustainability	
Sustainable offer status Gre	een Premium product
REACh Regulation REACH	ACh Declaration
REACh free of SVHC	S

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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