

TeSys Deca contactor - 4P(4 NO) - AC-1 - <= 440 V 20 A - 220 V AC 50/60 Hz coil

LC1DT20M7

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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	4 NO
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC
[le] rated operational current	20 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	III
[Ith] conventional free air thermal current	10 A (at 60 °C) for signalling circuit 20 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 60947-5-1 250 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	250 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	30 A 40 °C - 10 min for power circuit 61 A 40 °C - 1 min for power circuit 105 A 40 °C - 10 s for power circuit 210 A 40 °C - 1 s 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 25 A gG at <= 690 V coordination type 1 for power circuit 20 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	2.5 mOhm - Ith 20 A 50 Hz for power circuit
[Ui] rated insulation voltage	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 Power circuit: 690 V conforming to IEC 60947-4-1

Power dissipation per pole	1.56 W AC-1
Front cover	With
Mounting support	Rail Plate
Standarda	CSA C22.2 No 14
Standards	EN 60947-4-1
	EN 60947-5-1
	IEC 60947-4-1
	IEC 60947-5-1
	UL 508
	IEC 60335-1
Product certifications	GOST
	BV
	UL
	CCC GL
	CSA
	RINA
	LROS (Lloyds register of shipping)
	DNV
Connections - terminals	Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end
	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 1 cable(s) 14 mm²solid without cable end
	Control circuit: screw clamp terminals 2 cable(s) 14 mm²solid without cable end
	Power circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end
	Power circuit: screw clamp terminals 2 cable(s) 14 mm²flexible without cable end
	Power circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with cable end
	Power circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 14 mm²solid without cable end
	Power circuit: screw clamp terminals 1 cable(s) 14 mm 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: 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 pozidriv No 2
	Power circuit: 2.5 N.m - on screw clamp terminals - with screwdriver pozidriv No 2
Operating time	419 ms opening
-p-: amig milo	1222 ms closing
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

Without built-in suppressor module	
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	
70 VA 60 Hz cos phi 0.75 (at 20 °C) 70 VA 50 Hz cos phi 0.75 (at 20 °C)	
7.5 VA 60 Hz cos phi 0.3 (at 20 °C) 7 VA 50 Hz cos phi 0.3 (at 20 °C)	
23 W at 50/60 Hz	
type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to IEC 60947-4-1	
25400 Hz	
5 mA for signalling circuit	
17 V for signalling circuit	
1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact	
	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 70 VA 60 Hz cos phi 0.75 (at 20 °C) 70 VA 50 Hz cos phi 0.75 (at 20 °C) 7.5 VA 60 Hz cos phi 0.3 (at 20 °C) 7 VA 50 Hz cos phi 0.3 (at 20 °C) 23 W at 50/60 Hz type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to IEC 60947-4-1 25400 Hz 5 mA for signalling circuit 1.5 ms on de-energisation between NC and NO contact

Environment IP degree of protection Protective treatment Pollution degree 3 Ambient air temperature for operation Ambient air temperature for storage Operating altitude 0.	20 front face conforming to IEC 60529 H conforming to IEC 60068-2-30 1060 °C 070 °C with derating 3080 °C	
IP degree of protection Protective treatment Pollution degree 3 Ambient air temperature for operation Ambient air temperature for storage Operating altitude Operating altitude	H conforming to IEC 60068-2-30 1060 °C 070 °C with derating 5080 °C	
IP degree of protection Protective treatment Pollution degree 3 Ambient air temperature for operation Ambient air temperature for storage Operating altitude Operation IP -4 -6 -6 Operating altitude Operation Operation	H conforming to IEC 60068-2-30 1060 °C 070 °C with derating 5080 °C	
Pollution degree 3 Ambient air temperature for operation 60 Ambient air temperature for storage -6 Operating altitude 0.	1060 °C 070 °C with derating 5080 °C	
Ambient air temperature for operation 60 Ambient air temperature for storage -6 Operating altitude 0.	1060 °C 070 °C with derating 5080 °C	
Ambient air temperature for operation 60 Ambient air temperature for storage -6 Operating altitude 0.	070 °C with derating	
Ambient air temperature for storage Operating altitude 0.	5080 °C	
Operating altitude 0.		
	3000 m	
Fire resistance 85		
	50 °C conforming to IEC 60695-2-1	
Vi Sł	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: 10 Gn for 11 ms	
Height 85	5 mm	
Width 45	5 mm	
Depth 92	2 mm	
Net weight 0.	365 kg	
Packing Units		
	CE	
Number of Units in Package 1 1		
	89 g	
	5 cm	
	.5 cm	
	1.8 cm	
	02	
Number of Units in Package 2		
Package 2 Weight 6.	604 kg	
Package 2 Height 15	5 cm	
Package 2 width 30	0 cm	
Package 2 Length 40	0 cm	
Offer Sustainability		
Offer Sustainability Sustainable offer status Gi	reen Premium product	
	EACh Declaration	
	es	
	compliant	
	U RoHS Declaration	
Toxic heavy metal free	es	
Mercury free Ye	es	
RoHS exemption information Ye	es	
•	hina RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)	
Environmental Disclosure	roduct 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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