

## Product data sheet Characteristics

# LC1D40N7

EAN Code: 3389110417425

contactor TeSys Deca - 3 poles - AC-3 440V 40 A - coil 415 V AC



Pre



Main	
Range	TeSys
Range of product	TeSys Deca
Product or component type	Contactor
Device short name	LC1D
Contactor application	Resistive load Motor control
Utilisation category	AC-4 AC-3 AC-1 AC-2
Poles description	3P
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25400 Hz
[le] rated operational current	40 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 60 A (at <60 °C) at <= 440 V AC AC-1 for power circuit
[Uc] control circuit voltage	415 V AC 50/60 Hz

#### Complementary

Complementary		
Motor power kW	18.5 KW at 380400 V AC 50 Hz (AC-3) 22 KW at 500 V AC 50 Hz (AC-3) 30 KW at 660690 V AC 50 Hz (AC-3) 22 KW at 1000 V AC 50 Hz (AC-3) 22 KW at 415 V AC 50 Hz (AC-3) 22 KW at 440 V AC 50 Hz (AC-3) 11 KW at 220230 V AC 50 Hz (AC-3) 9 kW at 400 V AC 50 Hz (AC-4)	
Motor power hp	3 Hp at 115 V AC 60 Hz for 1 phase motors 5 Hp at 230/240 V AC 60 Hz for 1 phase motors 10 Hp at 200/208 V AC 60 Hz for 3 phases motors 10 Hp at 230/240 V AC 60 Hz for 3 phases motors 30 Hp at 460/480 V AC 60 Hz for 3 phases motors 30 hp at 575/600 V AC 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 control circuit 60 A (at 60 °C) for power circuit	
Irms rated making capacity	800 A at 440 V for power circuit conforming to IEC 60947 140 A AC for control circuit conforming to IEC 60947-5-1	
Rated breaking capacity	800 A at 440 V for power circuit conforming to IEC 60947	
Associated fuse rating	10 A gG for control circuit conforming to IEC 60947-5-1 80 A gG at <= 690 V coordination type 1 for power circuit 80 A gG at <= 690 V coordination type 2 for power circuit	
Power dissipation per pole	5.4 W AC-1 2.4 W AC-3	

[Ui] rated insulation voltage	Control circuit: 600 V CSA certified Control circuit: 600 V UL certified Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Power circuit: 600 V UL certified Control circuit: 690 V conforming to IEC 60947-1 Power circuit: 690 V conforming to IEC 60947-1	
Overvoltage category	III	
[Uimp] rated impulse withstand voltage	8 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	6000000 cycles	
Control circuit type	AC at 50/60 Hz	
Coil technology	Without built-in bidirectional peak limiting diode suppressor	
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	
Inrush power in VA	140 VA cos phi 0.75 (at 20 °C) 160 VA cos phi 0.75 (at 20 °C)	
Hold-in power consumption in VA	13 VA 60 Hz cos phi 0.3 (at 20 °C) 15 VA 50 Hz cos phi 0.3 (at 20 °C)	
Heat dissipation	45 W at 50/60 Hz for control circuit	
Operating time	419 ms opening 1226 ms closing	
Maximum operating rate	3600 cyc/h 60 °C	
Connections - terminals  Tightening torque	Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: rigid Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: rigid 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 12.5 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with cable end Power circuit: screw terminals 1 2.525 mm² - cable stiffness: rigid Power circuit: screw terminals 2 2.516 mm² - cable stiffness: flexible without cable end Power circuit: screw terminals 1 2.525 mm² - cable stiffness: flexible without cable end Power circuit: screw terminals 2 2.516 mm² - cable stiffness: flexible without cable end Power circuit: screw terminals 1 2.525 mm² - cable stiffness: flexible with cable end Power circuit: screw terminals 2 2.510 mm² - cable stiffness: flexible with cable end Power circuit: screw terminals 2 2.510 mm² - cable stiffness: flexible with cable end	
Tightening torque	Control circuit: 1.7 N.m - on screw clamp terminal - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - on screw clamp terminal - with screwdriver Philips No 2 Power circuit: 5 N.m - on screw terminal - with screwdriver flat Ø 6 to Ø 8 mm Control circuit: 1.7 N.m - on screw clamp terminal - 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	
Terminals description ISO n°1	(21-22)NC (A1-A2)CO (13-14)NO	
Minimum switching voltage	17 V for control circuit	
Minimum switching current	5 mA for control circuit	
Insulation resistance	> 10 MOhm for control circuit	
Non-overlap time	<ul><li>1.5 Ms on de-energisation between NC and NO contacts</li><li>1.5 ms on energisation between NC and NO contacts</li></ul>	
Mounting support	Rail Plate	

### Environment

Standards	IEC 60947-4-1 EN 60947-4-1 CSA C22.2 No 14 IEC 60947-5-1 UL 508 EN 60947-5-1
Product certifications	CSA[RETURN]LROS (Lloyds register of ship-ping)[RETURN]BV[RETURN]RINA[RETURN]CCC[RETURN]GL[RETURN]UL[RETURN]GOS
IP degree of protection	IP2X conforming to IEC 60529 IP2X conforming to VDE 0106
Climatic withstand	Conforming to IACS E10 exposure to damp heat
Operating altitude	03000 m
Fire resistance	850 °C conforming to IEC 60695-2-1
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Shocks contactor opened (10 Gn for 11 ms) Shocks contactor closed (15 Gn for 11 ms) Vibrations contactor opened (2 Gn, 5300 Hz) Vibrations contactor closed (4 Gn, 5300 Hz)
Height	127 mm
Width	75 mm
Depth	119 mm
Net weight	1.4 kg

## Packing Units

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Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	14 cm	
Package 1 Width	13.3 cm	
Package 1 Length	9.5 cm	
Package 1 Weight	1.442 kg	

## Offer Sustainability

Sustainable offer status	Green Premium product
REACh free of SVHC	Yes
EU RoHS Directive	Compliant EEU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	☑ China RoHS Declaration
RoHS exemption information	₫Yes
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

### Contractual warranty

Warranty	18 months