Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications



TeSys Deca contactor - 3P(3 NO) - AC-3 - <= 440 V 9 A - 380 V AC coil

LC1D093Q7

! Discontinued on: 23 Jan 2021

(!) Discontinued

Main

Range	TeSys	
Range of product	TeSys Deca	
Product or component type	Contactor	
Device short name	LC1D	
Contactor application	Motor control Resistive load	
Utilisation category	AC-1 AC-4 AC-3	
Poles description	3P	
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC	
[le] rated operational current	9 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 20 A (at <60 °C) at <= 440 V AC AC-1 for power circuit	
[Uc] control circuit voltage	380 V AC 50/60 Hz	

Complementary

Motor power kW	2.2 kW at 220230 V AC 50/60 Hz (AC-3)	
	4 kW at 380400 V AC 50/60 Hz (AC-3)	
	4 kW at 415440 V AC 50/60 Hz (AC-3)	
	5.5 kW at 500 V AC 50/60 Hz (AC-3)	
	5.5 kW at 660690 V AC 50/60 Hz (AC-3)	
	2.2 kW at 400 V AC 50/60 Hz (AC-4)	
Motor power hp	1 hp at 230/240 V AC 50/60 Hz for 1 phase motors	
	2 hp at 200/208 V AC 50/60 Hz for 3 phases motors	
	2 hp at 230/240 V AC 50/60 Hz for 3 phases motors	
	5 hp at 460/480 V AC 50/60 Hz for 3 phases motors	
	7.5 hp at 575/600 V AC 50/60 Hz for 3 phases motors	
	0.33 hp at 115 V AC 50/60 Hz for 1 phase motors	
Compatibility code	LC1D	
Pole contact composition	3 NO	
Protective cover	With	
[Ith] conventional free air thermal	10 A (at 60 °C) for signalling circuit	
current	16 A (at 60 °C) for power circuit	
Irms rated making capacity	250 A at 440 V for power circuit conforming to IEC 60947	
	140 A AC for signalling circuit conforming to IEC 60947-5-1	
	250 A DC for signalling circuit conforming to IEC 60947-5-1	
Rated breaking capacity	250 A at 440 V for power circuit conforming to IEC 60947	

[lcw] rated short-time withstand current	105 A 40 °C - 10 s for power circuit 210 A 40 °C - 1 s for power circuit 30 A 40 °C - 10 min for power circuit 61 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 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 16 A 50 Hz for power circuit	
Power dissipation per pole	1.56 W AC-1 0.2 W AC-3	
[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	15 Mcycles	
Electrical durability	0.6 Mcycles 25 A AC-1 at Ue <= 440 V 2 Mcycles 9 A AC-3 at Ue <= 440 V	
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	
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	
Operating time	1222 ms closing 419 ms opening	
Connections - terminals	Power circuit: spring terminals 1 2.5 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end Control circuit: spring terminals 1 2.5 mm² - cable stiffness: flexible without cable end Control circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end	
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	Rail Plate	
Environment		
Standards	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508	
Product certifications	CSA LROS (Lloyds register of shipping) GL DNV RINA BV CCC UL GOST	
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 device	-4060 °C 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 open (10 Gn for 11 ms) Shocks contactor closed (15 Gn for 11 ms)	
Height	80 mm	
Width	45 mm	
Depth	86 mm	
Net weight	0.32 kg	
Packing Units		
Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	11.4 cm	
Package 1 Width	10.5 cm	
Package 1 Length	5.4 cm	
Package 1 Weight	330 g	

Contractual warranty

Warranty 18 months



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability

Use Better

EU RoHS Directive	Compliant	
PVC free	Yes	
Use Again		
○ Repack and remanufacture		
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	