

contactor TeSys LC1-D - 3 poles-AC-3 - 440 V 50 A - coil 110 V AC

Local distributor code: 393507948

LC1D50AF7TQ

! Discontinued on: 9 Feb 2023

EAN Code: 3389118346918

Main

Range	TeSys TeSys Deca
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-2 AC-3e AC-4 AC-2
Poles description	3P
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25400 Hz
[le] rated operational current	50 A (at <60 °C) at <= 440 V AC AC-3e for power circuit 50 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 80 A (at <60 °C) at <= 440 V AC AC-1 for power circuit
[Uc] control circuit voltage	120 V AC 60 Hz

Complementary

Motor power kW	30 kW at 440 V AC 50 Hz (AC-3)
·	30 kW at 500 V AC 50 Hz (AC-3)
	33 kW at 660690 V AC 50 Hz (AC-3)
	15 kW at 220230 V AC 50 Hz (AC-3)
	11 kW at 400 V AC 50 Hz (AC-4)
	22 kW at 380400 V AC 50 Hz (AC-3e)
	25 kW at 415 V AC 50 Hz (AC-3e)
	30 kW at 440 V AC 50 Hz (AC-3e)
	30 kW at 500 V AC 50 Hz (AC-3e)
	33 kW at 660690 V AC 50 Hz (AC-3e)
	15 kW at 220230 V AC 50 Hz (AC-3e)
	22 kW at 380400 V AC 50 Hz (AC-3)
	25 kW at 415 V AC 50 Hz (AC-3)
Motor power hp	15 hp at 200/208 V AC 60 Hz for 3 phases motors
	15 hp at 230/240 V AC 60 Hz for 3 phases motors
	40 hp at 460/480 V AC 60 Hz for 3 phases motors
	40 hp at 575/600 V AC 60 Hz for 3 phases motors
	3 hp at 115 V AC 60 Hz for 1 phase motors
	7.5 hp at 230/240 V AC 60 Hz for 1 phase 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 80 A (at 60 °C) for power circuit
Irms rated making capacity	900 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	900 A at 440 V for power circuit conforming to IEC 60947
Associated fuse rating	100 A gG at <= 690 V coordination type 2 for power circuit 10 A gG for control circuit conforming to IEC 60947-5-1 100 A gG at <= 690 V coordination type 1 for power circuit
Power dissipation per pole	3.7 W AC-3e 3.7 W AC-3 9.6 W AC-1
[Ui] rated insulation voltage	Power circuit: 600 V CSA 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 Control circuit: 600 V CSA certified Control circuit: 600 V UL certified
overvoltage category	III
[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	6000000 cycles
Control circuit type	AC at 60 Hz
Coil technology	Without built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.851.1 Uc (-4060 °C):operational AC 60 Hz 11.1 Uc (6070 °C):operational AC 50/60 Hz 0.30.6 Uc (-4070 °C):drop-out AC 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 60 Hz for control circuit
Operating time	419 ms opening 1226 ms closing
Connections - terminals	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 14 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with cable end Control circuit: EverLink BTR screw connectors 1 135 mm² - cable stiffness: rigid Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: rigid Power circuit: EverLink BTR screw connectors 1 135 mm² - cable stiffness: flexible without cable end Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: flexible without cable end Power circuit: EverLink BTR screw connectors 1 135 mm² - cable stiffness: flexible with cable end Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: rigid Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: rigid
Tightening torque	Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 125 mm² - with screwdriver hex (Allen key)4 mm Power circuit: 8 N.m - on EverLink BTR screw connectors - cable 35 mm² - with screwdriver hex (Allen key)4 mm 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

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	
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	1.5 ms on de-energisation between NC and NO contacts 1.5 ms on energisation between NC and NO contacts	
Mounting support	Rail Plate	
Environment		
Standards	IEC 60947-4-1	
	EN 60947-5-1 UL 508	
	IEC 60947-5-1	
Product certifications	GL	
	DNV	
	GOST RINA	
	CSA	
	CCC LROS (pending)	
	UKCA	
	DNV GL	
	OL	
IP degree of protection	IP2X conforming to IEC 60529 IP2X conforming to VDE 0106	
Climatic withstand	conforming to IACS E10 exposure to damp heat conforming to IEC 60947-1 Annex Q category D 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	Vibrations contactor opened (2 Gn, 5300 Hz)	
	Vibrations contactor closed (4 Gn, 5300 Hz) Shocks contactor opened (10 Gn for 11 ms)	
	Shocks contactor closed (15 Gn for 11 ms)	
Height	122 mm	
Width	55 mm	
Depth	120 mm	
Product weight	1.4 kg	
Quantity per set	Set of 10	
Packing Units		
Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	6.2 cm	
Package 1 Width	13.7 cm	
Package 1 Length	15.2 cm	
Package 1 Weight	845.0 g	

S02

Unit Type of Package 2

Number of Units in Package 2	10
Number of Offics III Fackage 2	10
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	10.455 kg

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 >

☑ Environmental footprint	
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	56
Environmental Disclosure	Product Environmental Profile

Use Better

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant
REACh Regulation	REACh Declaration
China RoHS Regulation	China RoHS declaration
PVC free	Yes

Use Again

○ Repack and remanufacture	
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
Take-back	No