

① Discontinued

## contactor TeSys LC1-D - 3P - AC-3 - 440 V 40 A - coil 110 V AC

Local distributor code: 393396667

LC1D40AF7TQ

! Discontinued on: 9 Feb 2023

EAN Code: 3389118346758

### 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-4
	AC-3
	AC-2
	AC-1
	AC-3e
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
	40 A (at <60 °C) at <= 440 V AC AC-3e for power circuit
[Uc] control circuit voltage	110 V AC 50/60 Hz

### 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)
	11 kW at 220230 V AC 50 Hz (AC-3)
	9 kW at 400 V AC 50 Hz (AC-4)
	22 kW at 415440 V AC 50 Hz (AC-3e)
	18.5 kW at 380400 V AC 50 Hz (AC-3e)
	22 kW at 500 V AC 50 Hz (AC-3e)
	30 kW at 660690 V AC 50 Hz (AC-3e)
	11 kW at 220230 V AC 50 Hz (AC-3e)
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
[Ith] conventional free air thermal current	10 A (at 60 °C) for control circuit
Current	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 2.4 W AC-3e	
[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 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	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 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	
Connections - terminals	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 14 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with cable end Power circuit: EverLink BTR screw connectors 1 135 mm² - cable stiffness: rigid Power circuit: EverLink BTR screw connectors 2 125 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 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 Power circuit: EverLink BTR screw connectors 2 125 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	
ngntoning torque	Control circuit: 1.7 N.m - on screw clamp terminal - with screwdriver half by 6 mm  Control circuit: 1.7 N.m - on screw clamp terminal - with screwdriver Philips No 2	
	Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 125 mm <sup>2</sup> - 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 pozidriv No 2	
	Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 125 mm² - with	
	screwdriver pozidriv No 2	
	Power circuit: 8 N.m - on EverLink BTR screw connectors - cable 35 mm <sup>2</sup> - 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	
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	Plate	
	Rail	
Environment		

Standards	IEC 60947-5-1 EN 60947-4-1 CSA C22.2 No 14 EN 60947-5-1 UL 508 IEC 60947-4-1	
Product certifications	UL GOST LROS (pending) CSA BV	
	CCC RINA DNV GL UKCA	
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	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	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	6.200 cm
Package 1 Width	13.700 cm
Package 1 Length	15.200 cm
Package 1 Weight	1.000 kg
Unit Type of Package 2	S02
Number of Units in Package 2	10
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	10.260 kg
Unit Type of Package 3	P12
Number of Units in Package 3	160
Package 3 Height	45.000 cm
Package 3 Width	80.000 cm
Package 3 Length	120.000 cm
Package 3 Weight	176.160 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)	50
Environmental Disclosure	Product Environmental Profile

#### **Use Better**

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
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