



(!) Discontinued

# contactor TeSys LC1-D - 3 poles - AC-3 440V 95 A - coil 48 V DC

LC1D956FD

! Discontinued on: 3 Dec 2020

EAN Code: 3389110453225

### 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-3 AC-3e AC-4 AC-1	
Poles description	3P	
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25400 Hz	
[le] rated operational current	95 A (at <60 °C) at <= 440 V AC-3 for power circuit 125 A (at <60 °C) at <= 1000 V AC-1 for power circuit 95 A (at <60 °C) at <= 440 V AC-3e for power circuit	
[Uc] control circuit voltage	110 V DC	

## Complementary

Motor power kW	25 kW at 220230 V AC 50 Hz (AC-3)
	45 kW at 380400 V AC 50 Hz (AC-3)
	45 kW at 415440 V AC 50 Hz (AC-3)
	55 kW at 500 V AC 50 Hz (AC-3)
	45 kW at 660690 V AC 50 Hz (AC-3)
	15 kW at 400 V AC 50 Hz (AC-4)
	25 kW at 220230 V AC 50 Hz (AC-3e)
	45 kW at 380400 V AC 50 Hz (AC-3e)
	45 kW at 415440 V AC 50 Hz (AC-3e)
	55 kW at 500 V AC 50 Hz (AC-3e)
	45 kW at 660690 V AC 50 Hz (AC-3e)
	45 kW at 1000 V AC 50 Hz (AC-3e)
Motor power hp	7.5 hp at 115 V AC 60 Hz for 1 phase motors
	15 hp at 230/240 V AC 60 Hz for 1 phase motors
	25 hp at 200/208 V AC 60 Hz for 3 phases motors
	30 hp at 230/240 V AC 60 Hz for 3 phases motors
	60 hp at 460/480 V AC 60 Hz for 3 phases motors
	60 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	10 A (at 60 °C) for signalling circuit
current	125 A (at 60 °C) for power circuit

Irms rated making capacity	1100 A at 440 V AC 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	1100 A at 440 V for power circuit conforming to IEC 60947	
[Icw] rated short-time withstand current	1100 A 40 °C - 1 s for power circuit 800 A 40 °C - 10 s for power circuit 400 A 40 °C - 1 min for power circuit 135 A 40 °C - 10 min for power circuit 140 A - 100 ms for signalling circuit 120 A - 500 ms for signalling circuit 100 A - 1 s for signalling circuit	
Associated fuse rating	10 A gG for signalling circuit conforming to IEC 60947-5-1 160 A gG at <= 690 V coordination type 2 for power circuit 200 A gG at <= 690 V coordination type 1 for power circuit	
Average impedance	0.8 mOhm - Ith 125 A 50 Hz for power circuit	
Power dissipation per pole	12.5 W AC-1 7.2 W AC-3 7.2 W AC-3e	
[Ui] rated insulation voltage	Power circuit: 1000 V conforming to IEC 60947-1 Signalling 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 = 1.3 Mcycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20 Mcycles contactor with mechanical load conforming to EN/ISO 13849-1	
Mechanical durability	10 Mcycles	
Electrical durability	1.2 Mcycles 95 A AC-3 1.3 Mcycles 125 A AC-1 1.2 Mcycles 95 A AC-3e	
Control circuit type	DC standard	
Coil technology	Without built-in suppressor module	
Control circuit voltage limits	0.10.3 Uc (-4070 °C):drop-out DC 0.851.1 Uc (-4055 °C):operational DC 11.1 Uc (5570 °C):operational DC	
Inrush power in W	22 W (at 20 °C)	
Hold-in power consumption in W	22 W at 20 °C	
Operating time	2035 ms opening 95130 ms closing	
Time constant	75 ms	
Maximum operating rate	3600 cyc/h at 60 °C	
Connections - terminals	Control circuit: lugs - external diameter: 8 mm Power circuit: lugs - external diameter: 17 mm Power circuit: bars - busbar cross section: 3 x 16 mm	
Tightening torque	Control circuit: 1.2 N.m - on lugs - with screwdriver Philips No 2 Control circuit: 1.2 N.m - on lugs - with screwdriver flat Ø 6 mm Power circuit: 12 N.m - with screwdriver flat Ø 8 mm Power circuit: 12 N.m hexagonal screw head 10 mm Control circuit: 1.2 N.m - on lugs - 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 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 contacts 1.5 ms on energisation between NC and NO contacts
Mounting support	Rail Plate

## **Environment**

Standards	EN/IEC 60947-4-1 EN/IEC 60947-5-1 GB/T 14048.4	
Product certifications	IECEE CB Scheme CCC EAC LROS (Lloyds register of shipping) RINA BV DNV-GL	
IP degree of protection	IP20 conforming to IEC 60529	
Protective treatment	TH (pollution degree 3) conforming to IEC 60068-2-30	
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 (8 Gn for 11 ms) Shocks contactor closed (10 Gn for 11 ms) Vibrations contactor opened (2 Gn, 5300 Hz) Vibrations contactor closed (3 Gn, 5300 Hz)	
Height	127 mm	
Width	85 mm	
Depth	186 mm	
Net weight	2.61 kg	

# **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	10.0 cm
Package 1 Width	14.0 cm
Package 1 Length	21.0 cm
Package 1 Weight	2.544 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 >

<b>⊘</b> Environmental footprint	
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	105
Environmental Disclosure	Product Environmental Profile

### **Use Better**

<b>⊗</b> Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant
REACh Regulation	REACh Declaration

### **Use Again**

○ Repack and remanufacture	
Circularity Profile	No need of specific recycling operations
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins