# **Product datasheet**

Specifications



#### ① Discontinued

### 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-1 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	42 V AC 50/60 Hz	

() Discontinued on: 1 Nov 2020

LC1D093D7

TeSys D contactor - 3P(3 NO) -AC-3 - <= 440 V 9 A - 42 V AC coil

### 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

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
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
2.5 mOhm - Ith 16 A 50 Hz for power circuit
1.56 W AC-1 0.2 W AC-3
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
III
3
6 kV conforming to IEC 60947
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
15 Mcycles
0.6 Mcycles 25 A AC-1 at Ue <= 440 V 2 Mcycles 9 A AC-3 at Ue <= 440 V
AC at 50/60 Hz
Without built-in suppressor module
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
70 VA 60 Hz cos phi 0.75 (at 20 °C) 70 VA 50 Hz cos phi 0.75 (at 20 °C)
7.5 VA 60 Hz cos phi 0.3 (at 20 °C) 7 VA 50 Hz cos phi 0.3 (at 20 °C)
23 W at 50/60 Hz
1222 ms closing 419 ms opening
Power circuit: spring terminals 1 2.5 mm <sup>2</sup> - cable stiffness: flexible without cable end Power circuit: spring terminals 2 2.5 mm <sup>2</sup> - cable stiffness: flexible without cable end Control circuit: spring terminals 1 2.5 mm <sup>2</sup> - cable stiffness: flexible without cable end Control circuit: spring terminals 2 2.5 mm <sup>2</sup> - cable stiffness: flexible without cable end
1 NO + 1 NC
type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to IEC 60947-4-1
25400 Hz
17 V for signalling circuit
5 mA for signalling circuit
> 10 MOhm for signalling circuit
1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact

Mounting	support
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### Environment

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	RINA CCC LROS (Lloyds register of shipping) CSA BV GL DNV GOST UL
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

12 months

# Environmental Data

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**

Materials and Substances				
EU RoHS Directive	Compliant			
PVC free	Yes			
Use Again				
$^{\circlearrowright}$ Repack and remanufacture				

The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

WEEE