

TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 18 A - 12 V DC coil

LC1D18JD

! Discontinued on: Nov 1, 2020

(!) Discontinued

Main

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 AC-3e	
Poles description	3P	
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC	
[le] rated operational current	18 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 32 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 18 A (at <60 °C) at <= 440 V AC AC-3e for power circuit	
[Uc] control circuit voltage	12 V DC	

Complementary

Motor power kW	4 kW at 220230 V AC 50/60 Hz (AC-3) 7.5 kW at 380400 V AC 50/60 Hz (AC-3) 9 kW at 415440 V AC 50/60 Hz (AC-3) 10 kW at 500 V AC 50/60 Hz (AC-3) 10 kW at 600690 V AC 50/60 Hz (AC-3) 4 kW at 400 V AC 50/60 Hz (AC-4) 4 kW at 220230 V AC 50/60 Hz (AC-3e) 7.5 kW at 380400 V AC 50/60 Hz (AC-3e) 9 kW at 415440 V AC 50/60 Hz (AC-3e) 10 kW at 500 V AC 50/60 Hz (AC-3e)
Motor power hp	1 hp at 115 V AC 50/60 Hz for 1 phase motors 3 hp at 230/240 V AC 50/60 Hz for 1 phase motors 5 hp at 200/208 V AC 50/60 Hz for 3 phases motors 5 hp at 230/240 V AC 50/60 Hz for 3 phases motors 10 hp at 460/480 V AC 50/60 Hz for 3 phases motors 15 hp at 575/600 V AC 50/60 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 signalling circuit 32 A (at 60 °C) for power circuit

140 A AC for signalling circuit conforming to IEC 60947-5-1
250 A DC for signalling circuit conforming to IEC 60947-5-1
300 A at 440 V for power circuit conforming to IEC 60947
300 A at 440 V for power circuit conforming to IEC 60947
145 A 40 °C - 10 s for power circuit
240 A 40 °C - 1 s for power circuit
40 A 40 °C - 10 min for power circuit
84 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
50 A gG at <= 690 V coordination type 1 for power circuit
35 A gG at <= 690 V coordination type 2 for power circuit
2.5 mOhm - Ith 32 A 50 Hz for power circuit
2.5 W AC-1
0.8 W AC-3
0.8 W AC-3e
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
Signaling Circuit. 000 V OL Certined
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
13649-1
30 Mcycles
1.65 Mcycles 18 A AC-3 at Ue <= 440 V
1 Mcycles 32 A AC-1 at Ue <= 440 V
1.65 Mcycles 18 A AC-3e at Ue <= 440 V
DC standard
With integral suppression device
0.10.25 Uc (-4070 °C):drop-out DC
, ,
0.71.25 Uc (-4060 °C):operational DC
11.25 Uc (6070 °C):operational DC
5.4 W (at 20 °C)
5.4 W at 20 °C
63 ±15 % ms closing
20 ±20 % ms opening
28 mc
28 ms

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: screw clamp terminals 1 14 mm² - cable stiffness: solid without	
	cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without	
	cable end Power circuit: screw clamp terminals 1 1.56 mm² - cable stiffness: flexible without cable end	
	Power circuit: screw clamp terminals 2 1.56 mm ² - cable stiffness: flexible without cable end	
	Power circuit: screw clamp terminals 1 16 mm² - cable stiffness: flexible with cable end	
	Power circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible with cable end	
	Power circuit: screw clamp terminals 1 1.56 mm² - cable stiffness: solid without cable end	
	Power circuit: screw clamp terminals 2 1.56 mm² - cable stiffness: solid without cable end	
Tightening torque	Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 Power circuit: 1.7 N.m - on screw clamp terminals - 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	
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 60947-4-1	
	IEC 60335-1:Clause 30.2	
	IEC 60335-2-40:Annex JJ UL 60335-2-40:Annex JJ	
	CSA C22.2 No 60947-4-1	
Product certifications	UL CCC	
	CSA	
	Marine	
	UKCA	
	EAC CB Scheme	
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	
	J. J	

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	77 mm	
Width	45 mm	
Depth	95 mm	
Net weight	0.49 kg	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.500 cm
Package 1 Width	9.500 cm
Package 1 Length	11.800 cm
Package 1 Weight	528.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	8.248 kg

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.

How this information helps you >

Carbon footprint (kg CO2 eq, Total Life cycle)	39
Environmental Disclosure	Product Environmental Profile

Use Better

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant with Exemptions
SCIP Number	50ae7612-fd2e-41e4- a369-50d0dea6e592
REACh Regulation	REACh Declaration
China RoHS Regulation	China RoHS declaration
PVC free	Yes

Use Again

○ Repack and remanufacture	
Circularity Profile	End of Life Information

Take-back No

Nov 29, 2024

LC1D18JD

Offer Marketing Illustration

Product benefits / Features



Offer Marketing Illustration

Product benefits / Features



Offer Marketing Illustration

Product benefits / Features



Product datasheet

LC1D18JD

Image of product / Alternate images

Alternative





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