Specifications





Contactor, TeSys Deca, 3P (3NO), AC-3/AC-3e <=440V 80 A, 115 V AC 50/60 Hz coil, ring-lug terminals

LC1D806FE7

() Discontinued

() Discontinued on: 1 Nov 2020

Main

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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: <= 300 V DC 25400 Hz Power circuit: <= 690 V AC
[le] rated operational current	125 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 80 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 80 A (at <60 °C) at <= 440 V AC AC-3e for power circuit
[Uc] control circuit voltage	115 V AC 50/60 Hz

Complementary

22 kW at 220230 V AC 50/60 Hz (AC-3)
37 kW at 380400 V AC 50/60 Hz (AC-3)
45 kW at 415440 V AC 50/60 Hz (AC-3)
55 kW at 500 V AC 50/60 Hz (AC-3)
45 kW at 660690 V AC 50/60 Hz (AC-3)
15 kW at 400 V AC 50/60 Hz (AC-4)
22 kW at 220230 V AC 50/60 Hz (AC-3e)
37 kW at 380400 V AC 50/60 Hz (AC-3e)
45 kW at 415440 V AC 50/60 Hz (AC-3e)
55 kW at 500 V AC 50/60 Hz (AC-3e)
45 kW at 660690 V AC 50/60 Hz (AC-3e)
7.5 hp at 120 V AC 50/60 Hz for 1 phase motors
15 hp at 230/240 V AC 50/60 Hz for 1 phase motors
30 hp at 200/208 V AC 50/60 Hz for 3 phases motors
30 hp at 230/240 V AC 50/60 Hz for 3 phases motors
60 hp at 460/480 V AC 50/60 Hz for 3 phases motors
60 hp at 575/600 V AC 50/60 Hz for 3 phases motors
LC1D
3 NO
With
10 A (at 60 °C) for signalling 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 1100 A at 440 V for power circuit conforming to IEC 60947	
1100 A at 440 V for power circuit conforming to IEC 60947	
640 A 40 °C - 10 s for power circuit 990 A 40 °C - 1 s for power circuit 135 A 40 °C - 10 min for power circuit 320 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 60947-5-1 200 A gG at <= 690 V coordination type 1 for power circuit 160 A gG at <= 690 V coordination type 2 for power circuit	
0.8 mOhm - Ith 125 A 50 Hz for power circuit	
5.1 W AC-3 12.5 W AC-1	
Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Power circuit: 1000 V conforming to IEC 60947-4-1 Signalling circuit: 600 V conforming to IEC 60947-1 Signalling circuit: 600 V CSA certified Signalling circuit: 600 V UL certified	
Ш	
3	
8 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	
4 Mcycles	
0.8 Mcycles 125 A AC-1 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V	
AC at 50/60 Hz	
Without built-in suppressor module	
0.851.1 Uc (-4055 °C):operational AC 60 Hz 0.30.6 Uc (-4070 °C):drop-out AC 50/60 Hz 0.81.1 Uc (-4055 °C):operational AC 50 Hz 11.1 Uc (5570 °C):operational AC 50/60 Hz	
245 VA 60 Hz cos phi 0.75 (at 20 °C) 245 VA 50 Hz cos phi 0.75 (at 20 °C)	
26 VA 60 Hz cos phi 0.3 (at 20 °C) 26 VA 50 Hz cos phi 0.3 (at 20 °C)	
610 W at 50/60 Hz	
2035 ms closing 620 ms opening	
3600 cyc/h 60 °C	
Control circuit: lugs-ring terminals - external diameter: 8 mm Power circuit: bars 1 - busbar cross section: 3 x 16 mm Power circuit: lugs-ring terminals - external diameter: 17 mm	
Power circuit: bars 1 - busbar cross section: 3 x 16 mm	
Power circuit: bars 1 - busbar cross section: 3 x 16 mm	

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	Plate Rail

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	DNV
	RINA
	GOST
	UL
	BV
	GL
	CSA
	CCC
	LROS (Lloyds register of shipping)
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
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)
	Shocks contactor open (8 Gn for 11 ms)
	Vibrations contactor closed (3 Gn, 5300 Hz)
	Shocks contactor closed (10 Gn for 11 ms)
Height	127 mm
Width	85 mm
Depth	130 mm
net weight	1.59 kg

Packing Units

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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	11 cm
Package 1 Width	16 cm
Package 1 Length	16.3 cm
Package 1 Weight	1.6 kg

Contractual warranty

Warranty

18 months

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance

Reach Free Of Svhc
Toxic Heavy Metal Free
Mercury Free
Rohs Exemption Information Yes
Pvc Free

Certifications & Standards

Eu Rohs Directive	Compliant
	EU RoHS Declaration
China Rohs Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins