# Product data sheet

Specifications



① Discontinued

### Contactor, TeSys Deca, 3P(3NO), AC-3/AC-3e, <=440V 80A, 72V DC wide voltage range coil, lugs-ring terminals

LC1D806SW

() Discontinued on: Aug 31, 2023

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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	72 V DC

### Complementary

Motor Power Kw	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)
Motor Power Hp	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
Compatibility Code	LC1D
Pole Contact Composition	3 NO
Contact Compatibility	M9
Protective Cover	With

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[Ith] Conventional Free Air Thermal Current	10 A (at 60 °C) for signalling circuit 125 A (at 60 °C) for power circuit
Irms Rated Making Capacity	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
Rated Breaking Capacity	1100 A at 440 V for power circuit conforming to IEC 60947
[Icw] Rated Short-Time Withstand Current	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
Associated Fuse Rating	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
Average Impedance	0.8 mOhm - Ith 125 A 50 Hz for power circuit
Power Dissipation Per Pole	5.1 W AC-3 12.5 W AC-1 5.1 W AC-3e
[Ui] Rated Insulation Voltage	Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Power circuit: 1000 V conforming to IEC 60947-4-1 Signalling circuit: 690 V conforming to IEC 60947-1 Signalling circuit: 600 V CSA certified Signalling circuit: 600 V UL certified
Overvoltage Category	III
Pollution Degree	3
[Uimp] Rated Impulse Withstand Voltage	8 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	10 Mcycles
Electrical Durability	0.8 Mcycles 125 A AC-1 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3e at Ue <= 440 V
Control Circuit Type	DC wide range
Coil Technology	Without built-in suppressor module
Control Circuit Voltage Limits	0.751.2 Uc (-4055 °C):operational DC 0.10.3 Uc (-4070 °C):drop-out DC 11.2 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	95130 ms closing 2035 ms opening
Time Constant	75 ms
Maximum Operating Rate	3600 cyc/h 60 °C
Connections - Terminals	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
Tightening Torque	Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm M3.5 Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5 Power circuit: 5 N.m - on lugs-ring terminals - with screwdriver flat Ø 8 mm M6 Power circuit: 5 N.m - on lugs-ring terminals hexagonal screw head 10 mm M6 Power circuit: 5 N.m - on bars - with screwdriver flat Ø 8 mm M6 Power circuit: 5 N.m - on bars - with screwdriver flat Ø 8 mm M6 Power circuit: 5 N.m - on bars hexagonal screw head 10 mm M6 Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver pozidriv No 2 M3.5

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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	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	UL
	RINA
	CCC
	DNV
	CSA
	BV
	GOST
	LROS (Lloyds register of shipping)
	GL
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	-4060 °C
Temperature Around The Device	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	186 mm
Net Weight	2.59 kg

## **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	21.0 cm
Package 1 Width	14.0 cm
Package 1 Length	10.0 cm

Package 1 Weight

### **Contractual warranty**

Warranty

18 months

### Sustainability

**Green Premium<sup>TM</sup> 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-CO<sub>2</sub> products.

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Guide to assess a product's sustainability >



Transparency RoHS/REACh

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#### Well-being performance

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

### **Certifications & Standards**

Reach Regulation	REACh Declaration
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
Circularity Profile	No need of specific recycling operations