

Contactor, TeSys Deca, 3P(3NO), AC-3/AC-3e, <=440V 80A, 24V AC 50/60Hz coil, lugs-ring terminals

LC1D806B7

Main

Range	TeSys
Range Of Product	TeSys Deca
Product Or Component Type	Contactor
Device Short Name	LC1D
Contactor Application	Motor control Resistive load
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	24 V AC 50/60 Hz

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	
ŕ	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	
Protective Cover	With	
[Ith] Conventional Free Air	10 A (at 60 °C) for signalling circuit	
Thermal Current	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	

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Rated Breaking Capacity	1100 A at 440 V for power circuit conforming to IEC 60947
[Icw] Rated Short-Time Withstand	640 A 40 °C - 10 s for power circuit
Current	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
	140 A - 100 His 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
A	
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
Ulima Detect Imported Mithestered	011/ / 1 150 000/7
[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	4 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	AC at 50/60 Hz
Coil Technology	Without built is suppressed module
	Without built-in suppressor module
Control Circuit Voltage Limits	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
nrush Power In Va	245 VA 60 Hz coc phi 0.75 (et 20 °C)
III USII FUWEI III VÄ	245 VA 60 Hz cos phi 0.75 (at 20 °C)
	245 VA 50 Hz cos phi 0.75 (at 20 °C)
Hold-In Power Consumption In Va	26 VA 60 Hz cos phi 0.3 (at 20 °C)
·	26 VA 50 Hz cos phi 0.3 (at 20 °C)
Heat Dissipation	610 W at 50/60 Hz
Onerating Time	20. 25 ma alagina
Operating Time	2035 ms closing 620 ms opening
Maximum Operating Bata	· -
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
Fightoning Torrus	Control simult 4 ON as an lune size transfer to with 11 O C C C 110 T
Fightening 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 hexagonal screw head 10 mm M6
	Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver pozidriv No 2 M3.5
Auxiliary Contact Composition	1 NO + 1 NC
J Composition	THOTTHO

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	GOST
	BV
	RINA
	CSA
	UL
	CCC
	DNV
	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	130 mm
Net Weight	1.59 kg

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	11.0 cm
Package 1 Width	16.0 cm
Package 1 Length	16.3 cm
Package 1 Weight	1.6 kg

Contractual warranty

Warranty

18 months

Sustainability

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.

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Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

Ø	Reach Free Of Svhc	
Ø	Toxic Heavy Metal Free	
⊘	Mercury Free	
Ø	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
California Proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov