Specifications





Contactor, TeSys Deca, 3P(3 NO), AC-3/AC-3e, <=400V, 65A, 24V AC 50/60Hz coil, spring terminals

LC1D65A3B7

Main

Range	TeSys TeSys Deca	
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	ted operational current80 A (at <60 °C) at <= 440 V AC AC-1 for power circuit65 A (at <60 °C) at <= 440 V AC AC-3 for power circuit	
[Uc] control circuit voltage	24 V AC 50/60 Hz	

Complementary

Motor power kW	11 kW at 400 V AC 50/60 Hz (AC-4) 18.5 kW at 220230 V AC 50/60 Hz (AC-3) 30 kW at 380400 V AC 50/60 Hz (AC-3) 37 kW at 500 V AC 50/60 Hz (AC-3) 37 kW at 660690 V AC 50/60 Hz (AC-3) 18.5 kW at 220230 V AC 50/60 Hz (AC-3e) 30 kW at 380400 V AC 50/60 Hz (AC-3e) 37 kW at 500 V AC 50/60 Hz (AC-3e) 37 kW at 600 V AC 50/60 Hz (AC-3e) 37 kW at 660690 V AC 50/60 Hz (AC-3e)	
Motor power hp	40 hp at 460/480 V AC 50/60 Hz for 3 phases motors 5 hp at 115 V AC 50/60 Hz for 1 phase motors 10 hp at 230/240 V AC 50/60 Hz for 1 phase motors 20 hp at 200/208 V AC 50/60 Hz for 3 phases motors 20 hp at 230/240 V AC 50/60 Hz for 3 phases motors 50 hp at 575/600 V AC 50/60 Hz for 3 phases motors	
Compatibility code	LC1D	
Pole contact composition	3 NO	
Protective cover	ive cover With	
[Ith] conventional free air thermal current		
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 1000 A at 440 V for power circuit conforming to IEC 60947	

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

Rated breaking capacity	1000 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	900 A 40 °C - 1 s for power circuit	
	110 A 40 °C - 10 min for power circuit	
	260 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	
	125 A gG at <= 690 V coordination type 1 for power circuit	
	125 A gG at <= 690 V coordination type 2 for power circuit	
Average impedance	1.5 mOhm - Ith 80 A 50 Hz for power circuit	
Power dissipation per pole	9.6 W AC-1	
	6.3 W AC-3	
	6.3 W AC-3e	
[Ui] rated insulation voltage	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	
	Power circuit: 690 V conforming to IEC 60947-4-1	
Overvoltage category	ervoltage category	
Pollution degree	3	
[Uimp] rated impulse withstand voltage	6 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	6 Mcycles	
Electrical durability	1.4 Mcycles 80 A AC-1 at Ue <= 440 V	
	1.45 Mcycles 65 A AC-3 at Ue <= 440 V	
	1.45 Mcycles 50 A AC-3e at Ue <= 440 V	
Control circuit type	AC at 50/60 Hz	
Coil technology	Without built-in suppressor module	
Control airquit voltage limite		
Control circuit voltage limits	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	
Inrush power in VA	140 VA 60 Hz cos phi 0.75 (at 20 °C)	
•	160 VA 50 Hz cos phi 0.75 (at 20 °C)	
Hold-in power consumption in VA	13 VA 60 Hz cos phi 0.3 (at 20 °C) 15 VA 50 Hz cos phi 0.3 (at 20 °C)	
Heat dissipation	45 W at 50/60 Hz	
Operating time	419 ms opening	
	1226 ms closing	
Maximum operating rate	-	
	3600 cyc/h 60 °C	
Maximum operating rate	3600 cyc/h at 60 °C	

Connections - terminals	Control circuit: spring terminals 1 2.5 mm ² - cable stiffness: flexible without cable end Control circuit: spring terminals 2 2.5 mm ² - cable stiffness: flexible without cable end Power circuit: EverLink BTR screw connectors 1 135 mm ² - cable stiffness: flexible without cable end Power circuit: EverLink BTR screw connectors 2 125 mm ² - cable stiffness: flexible without cable end Power circuit: EverLink BTR screw connectors 1 135 mm ² - cable stiffness: flexible with cable end Power circuit: EverLink BTR screw connectors 2 125 mm ² - cable stiffness: flexible with cable end Power circuit: EverLink BTR screw connectors 2 125 mm ² - cable stiffness: flexible with cable end Power circuit: EverLink BTR screw connectors 2 125 mm ² - cable stiffness: solid with cable end Power circuit: EverLink BTR screw connectors 1 135 mm ² - cable stiffness: solid without cable end Power circuit: EverLink BTR screw connectors 2 125 mm ² - cable stiffness: solid without cable end Power circuit: EverLink BTR screw connectors 2 125 mm ² - cable stiffness: solid without cable end Power circuit: EverLink BTR screw connectors 2 125 mm ² - cable stiffness: solid without cable end	
Tightening torque	Power circuit: 8 N.m - on screw clamp terminals - cable 2535 mm ² hexagonal screw head 4 mm Power circuit: 5 N.m - on screw clamp terminals - cable 2.525 mm ² hexagonal screw head 4 mm Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 Power circuit: 2.5 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	ng 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	EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 CSA C22.2 No 14 UL 60947-4-1 IEC 60335-2-40:Annex JJ UL 60335-2-40:Annex JJ IEC 60335-1:Clause 30.2	
Product certifications	CCC UL CB Scheme CSA CE UKCA Marine EAC	
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		
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 closed (15 Gn for 11 ms) Shocks contactor open (10 Gn for 11 ms)	
Height	122 mm	
Width	55 mm	
Depth	120 mm	
net weight	0.86 kg	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.2 cm
Package 1 Width	13.7 cm
Package 1 Length	15.2 cm
Package 1 Weight	950 g

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.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Sustainable Packaging Transparency RoHS/REACh

Resource performance

Sustainable Packaging

Well-being performance

Reach Free Of Svhc	
Toxic Heavy Metal Free	
Mercury Free	
Rohs Exemption Information Ye	25
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	End of Life Information