Product data sheet

Specification





Contactor, TeSys Deca, 4P(4NO), AC-1, <=440V, 125A, 120V AC 60Hz coil, screw clamp terminal

LC1D80004G6

Main

Range	TeSys	
Range of product	TeSys Deca	
	Tedys Deca	
Product or component type	Contactor	
Device short name	LC1D	
contactor application	Resistive load	
Utilisation category	AC-1	
	AC-3	
	AC-3e	
	AC-4	
poles description	4P	
[Ue] rated operational voltage	Power circuit <= 300 V DC 25400 Hz	
	Power circuit <= 690 V AC	
[le] rated operational current	125 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit	
	80 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit	
	80 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit	
	55 A (at <140 $^{\circ}$ F (60 $^{\circ}$ C)) at <= 400 V AC AC-4 for power circuit	
[Uc] control circuit voltage	120 V AC 60 Hz	

Complementary

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Motor power kW	22 kW at 220230 V AC 50/60 Hz 37 kW at 380400 V AC 50/60 Hz 45 kW at 660690 V AC 50/60 Hz 55 kW at 500 V AC 50/60 Hz 45 kW at 415440 V AC 50/60 Hz
Compatibility code	LC1D
Pole contact composition	4 NO
Protective cover	Without
[Ith] conventional free air thermal current	125 A (at 140 °F (60 °C)) for power circuit
Irms rated making capacity	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
[lcw] rated short-time withstand current	640 A 104 °F (40 °C) - 10 s for power circuit 990 A 104 °F (40 °C) - 1 s for power circuit 135 A 104 °F (40 °C) - 10 min for power circuit 320 A 104 °F (40 °C) - 1 min for power circuit
Associated fuse rating	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	12.5 W AC-1

[Ui] rated insulation voltage	Power circuit 600 V CSA Power circuit 600 V UL Power circuit 1000 V IEC 60947-4-1
Overvoltage category	III
Pollution degree	3
[Uimp] rated impulse withstand voltage	8 kV IEC 60947
Safety reliability level	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
Mechanical durability	10 Mcycles
Electrical durability	0.8 Mcycles 125 A AC-1 <= 440 V
Control circuit type	AC 60 Hz
Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.851.1 Uc -40131 °F (-4055 °C) operational AC 60 Hz 0.30.6 Uc -40158 °F (-4070 °C) drop-out AC 60 Hz 11.1 Uc 131158 °F (5570 °C) operational AC 60 Hz
Inrush power in VA	220 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C))
Hold-in power consumption in VA	22 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C))
Heat dissipation	610 W at 60 Hz
Operating time	2035 ms closing 620 ms opening
Maximum operating rate	3600 cyc/h 140 °F (60 °C)
Maximum operating rate	3600 cyc/h at 60 °C
Connections - terminals	Control circuit: screw clamp terminals 2 0.0020.004 in² (12.5 mm²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 0.0020.004 in² (12.5 mm²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable stiffness: flexible without cable end Power circuit: connector 1 0.0060.08 in² (450 mm²) - cable stiffness: flexible without cable end Power circuit: connector 1 0.0060.08 in² (450 mm²) - cable stiffness: flexible with cable end Power circuit: connector 2 0.0060.02 in² (416 mm²) - cable stiffness: flexible with cable end Power circuit: connector 2 0.0060.02 in² (416 mm²) - cable stiffness: flexible with cable end Power circuit: connector 1 0.0060.08 in² (450 mm²) - cable stiffness: flexible with cable end
	without cable end Power circuit: connector 2 0.0060.04 in² (425 mm²) - cable stiffness: solid without cable end
Tightening torque	Power circuit: connector 2 0.0060.04 in² (425 mm²) - cable stiffness: solid

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 IEC 60529
Protective treatment	THIEC 60068-2-30
Climatic withstand	IACS E10 exposure to damp heat
Permissible ambient air	-40140 °F (-4060 °C)
temperature around the device	140158 °F (6070 °C) with derating
	140136 F (0070 G) with defating
Operating altitude	03000 m
Fire resistance	1562 °F (850 °C) IEC 60695-2-1
Flame retardance	V1 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	5.0000000000 in (127 mm)
Width	3.8 in (96 mm)
Depth	4.9 in (125 mm)
Net weight	3.88 lb(US) (1.76 kg)

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.1 in (15.5 cm)
Package 1 Width	5.5 in (14.0 cm)
Package 1 Length	4.3 in (11.0 cm)
Package 1 Weight	3.90 lb(US) (1.77 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 >







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 Yes

Pvc Free

Certifications & Standards

Reach Regulation

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