# **Product datasheet**

Specifications





# Contactor, TeSys Deca, 4P(4NO),AC-3/AC-3e/, <=440V, 40A,120V AC 50/60Hz coil, screw clamp terminal

LC1D65004G7

(!) Discontinued

### Main

range of product	TeSys 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: 690 V AC 25400 Hz
[le] rated operational current	80 A (at <60 °C) at 440 V AC AC-1 for power circuit
[Uc] control circuit voltage	120 V AC 50/60 Hz

### Complementary

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Compatibility code	LC1D
Pole contact composition	4 NO
Protective cover	With
[Ith] conventional free air thermal current	10 A (at 60 °C) for control circuit 80 A (at 60 °C) for power circuit
Irms rated making capacity	1000 A at 440 V AC for power circuit conforming to IEC 60947 140 A AC for control circuit conforming to IEC 60947-5-1
Rated breaking capacity	1000 kA at 440 V for power circuit conforming to IEC 60947
Associated fuse rating	10 A gG for control circuit conforming to IEC 60947-5-1 125 A at 690 V coordination type 1 for power circuit 125 A at 690 V coordination type 2 for power circuit
Average impedance	1 mOhm - Ith 80 A 50 Hz for power circuit
Power dissipation per pole	6.3 W AC-3 9.6 W AC-1
[Ui] rated insulation voltage	Control circuit: 600 V CSA certified Control circuit: 600 V UL certified Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Control circuit: 690 V conforming to IEC 60947-4-1 Power circuit: 690 V conforming to IEC 60947-4-1
Overvoltage category	III
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947

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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	6000000 cycles
Control circuit type	AC at 50/60 Hz standard
Coil technology	Without built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.30.6 Uc (60 °C):drop-out AC 50/60 Hz 0.81.1 Uc (60 °C):operational AC 50/60 Hz
Inrush power in VA	140 VA 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 for control circuit
Operating time	1226 ms closing 419 ms opening
Maximum operating rate	3600 cyc/h 60 °C
Connections - terminals	Control circuit: screw clamp terminal 1 14 mm <sup>2</sup> - cable stiffness: solid without cable end Control circuit: screw clamp terminal 2 14 mm <sup>2</sup> - cable stiffness: flexible without cable end Control circuit: screw clamp terminal 2 14 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminal 1 135 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminal 2 135 mm <sup>2</sup> - cable stiffness: solid without cable end
Tightening torque	Control circuit: 1.7 N.m - on screw clamp terminal - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - on screw clamp terminal - with screwdriver Philips No 2 Power circuit: 5 N.m - on screw clamp terminal - with screwdriver flat Ø 6 mm hexagonal screw head Power circuit: 5 N.m - on screw clamp terminal - with screwdriver Philips No 2 hexagonal screw head Control circuit: 1.7 N.m - on screw clamp terminal - with screwdriver pozidriv No 2 Power circuit: 5 N.m - on screw clamp terminal - with screwdriver pozidriv No 2
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
Minimum switching voltage	17 V for control circuit
Minimum switching current	5 mA for control circuit
Insulation resistance	> 10 MOhm for control circuit
Non-overlap time	1.5 ms on de-energisation between NC and NO contacts 1.5 ms on energisation between NC and NO contacts
mounting support	Rail Plate

### Environment

Standards	EN/IEC 60947-5-1 CSA C22.2 No 14 UL 508 EN/IEC 60947-4-1
Product certifications	RINA CCC UL CSA GL DNV LROS (Lloyds register of shipping) BV UKCA
IP degree of protection	IP2X conforming to VDE 0106

Protective treatment	TH conforming to IEC 60068-2-30
Permissible ambient air temperature around the device	-560 °C -4070 °C at Uc
Operating altitude	3000 m without derating
Fire resistance	850 °C conforming to IEC 60695-2-1
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Shocks contactor open (8 Gn for 11 ms) Shocks contactor closed (10 Gn for 11 ms) Vibrations contactor opened (2 Gn, 5300 Hz) Vibrations contactor closed (3 Gn, 5300 Hz)
Height	122 mm
Width	85 mm
Depth	130 mm

# **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	9.100 cm
Package 1 Width	12.600 cm
Package 1 Length	13.200 cm
Package 1 Weight	1.420 kg
Unit Type of Package 2	P06
Number of Units in Package 2	128
Package 2 Height	75.000 cm
Package 2 Width	80.000 cm
Package 2 Length	60.000 cm
Package 2 Weight	189.760 kg

## **Contractual warranty**

Warranty

18 months

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# Sustainability Screen Premium

**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.

**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**

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

#### Offer Marketing Illustration

#### **Product benefits / Features**



#### Offer Marketing Illustration

#### **Product benefits / Features**



#### Offer Marketing Illustration

**Product benefits / Features** 

