

# TeSys Deca contactor, 3P(3NO), AC-3/AC-3e, 440V, 95 A, 110V AC 50/60 Hz coil

LC1D95F7

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Main	
Range	TeSys
Product name	TeSys D TeSys Deca
Product or component type	Contactor
Device short name	LC1D
Contactor application	Motor control Resistive load
Utilisation category	AC-1 AC-4 AC-3 AC-3e
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	Power circuit: 1000 V AC 25400 Hz
[le] rated operational current	95 A (at <60 °C) at <= 440 V AC-3 for power circuit 125 A (at <60 °C) at <= 690 V AC-1 for power circuit 95 A (at <60 °C) at <= 440 V AC-3e for power circuit
Motor power kW	25 kW at 220230 V AC 50 Hz (AC-3) 45 kW at 380400 V AC 50 Hz (AC-3) 45 kW at 415440 V AC 50 Hz (AC-3) 55 kW at 500 V AC 50 Hz (AC-3) 45 kW at 660690 V AC 50 Hz (AC-3) 45 kW at 1000 V AC 50 Hz (AC-3)
Motor power HP (UL / CSA)	7.5 hp at 120 V AC 60 Hz for 1 phase motors 15 hp at 230/240 V AC 60 Hz for 1 phase motors 30 hp at 200/208 V AC 60 Hz for 3 phases motors 30 hp at 230/240 V AC 60 Hz for 3 phases motors 60 hp at 460/480 V AC 60 Hz for 3 phases motors 60 hp at 575/600 V AC 60 Hz for 3 phases motors
Control circuit type	AC at 50/60 Hz
[Uc] control circuit voltage	110 V AC 50/60 Hz
Auxiliary contact composition	1 NO + 1 NC
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947
Overvoltage category	III
[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	1100 A at 440 V AC for power circuit conforming to IEC 60947 140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1

Rated breaking capacity	1100 A at 440 V for power circuit conforming to IEC 60947
[lcw] rated short-time withstand current	1100 A 40 °C - 1 s for power circuit 800 A 40 °C - 10 s for power circuit 400 A 40 °C - 1 min for power circuit 135 A 40 °C - 10 min for power circuit 140 A - 100 ms for signalling circuit 120 A - 500 ms for signalling circuit 100 A - 1 s 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
[Ui] rated insulation voltage	Power circuit: 1000 V conforming to IEC 60947-4-1 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
Electrical durability	1.2 Mcycles 95 A AC-3 1.3 Mcycles 125 A AC-1 1.2 Mcycles 95 A AC-3e
Power dissipation per pole	12.5 W AC-1 7.2 W AC-3 7.2 W AC-3e
Front cover	With
Mounting support	Rail Plate
Standards	EN/IEC 60947-1 EN/IEC 60947-4-1 EN/IEC 60947-5-1 UL 60947-4-1 UL 60947-5-1 CSA C22.2 No 60947-4-1 CSA C22.2 No 60947-5-1 GB/T 14048.4
Product certifications	IECEE CB Scheme UL CSA CCC EAC LROS (Lloyds register of shipping) RINA BV DNV-GL
Connections - terminals	Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 12.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²solid without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²solid without cable end Power circuit: connector 1 cable(s) 450 mm²flexible without cable end Power circuit: connector 2 cable(s) 425 mm²flexible without cable end Power circuit: connector 1 cable(s) 450 mm²flexible with cable end Power circuit: connector 2 cable(s) 416 mm²flexible with cable end Power circuit: connector 1 cable(s) 450 mm²solid without cable end Power circuit: connector 2 cable(s) 450 mm²solid without cable end Power circuit: connector 2 cable(s) 450 mm²solid without cable end
Tightening torque	Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 12 N.m - on connector - with screwdriver flat Ø 6 to Ø 8 mm Power circuit: 12 N.m - on connector hexagonal screw head 4 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver pozidriv No 2
Operating time	2035 ms closing 620 ms opening
Safety reliability level	B10d = 1.3 Mcycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20 Mcycles contactor with mechanical load conforming to EN/ISO 13849-1
Mechanical durability	4 Mcycles
Maximum operating rate	3600 cyc/h 60 °C
Complementary	
Coil technology	Without built-in suppressor module

0.85...1.1 Uc (-40...55 °C):operational AC 60 Hz 0.3...0.6 Uc (-40...70 °C):drop-out AC 50/60 Hz 1...1.1 Uc (55...70 °C):operational AC 50/60 Hz

245 VA 60 Hz cos phi 0.75 (at 20 °C)	
245 VA 50 Hz cos phi 0.75 (at 20 °C)	
26 VA 60 Hz cos phi 0.3 (at 20 °C)	
26 VA 50 Hz cos phi 0.3 (at 20 °C)	
610 W at 50/60 Hz	
type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1	
type mirror contact 1 NC conforming to IEC 60947-4-1	
25400 Hz	
5 mA for signalling circuit	
17 V for signalling circuit	
1.5 ms on de-energisation between NC and NO contact	
1.5 ms on energisation between NC and NO contact	
> 10 MOhm for signalling circuit	

## **Environment**

IP degree of protection	IP20 front face conforming to IEC 60529	
Climatic withstand	conforming to IACS E10	
Protective treatment	TH conforming to IEC 60068-2-30	
Pollution degree	3	
Ambient air temperature for operation	-4060 °C 6070 °C with derating	
Ambient air temperature for storage	-6080 °C	
Operating altitude	03000 m	
Fire resistance	850 °C conforming to IEC 60695-2-1	
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	1.61 kg	

# **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	1.554 kg
Package 1 Height	14.0 cm
Package 1 width	13.5 cm
Package 1 Length	10.0 cm
Unit Type of Package 2	S02
Number of Units in Package 2	5
Package 2 Weight	8.11 kg
Package 2 Height	15.0 cm
Package 2 width	30.0 cm

Package 2 Length	40.0 cm
Unit Type of Package 3	P06
Number of Units in Package 3	80
Package 3 Weight	133.7 kg
Package 3 Height	77.0 cm
Package 3 width	60.0 cm
Package 3 Length	80.0 cm

# Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
REACh free of SVHC	Yes	
EU RoHS Directive	Compliant EU RoHS Declaration	
Toxic heavy metal free	Yes	
Mercury free	Yes	
RoHS exemption information	Yes	
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	
PVC free	Yes	
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	

## **Contractual warranty**

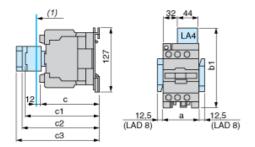
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Warranty	18 months

# **Product data sheet**

# LC1D95F7

Dimensions Drawings

### **Dimensions**



#### (1) Minimum electrical clearance

LC1		D80	D95
а		85	85
b1	with LA4 D●2	135	135
	with LA4 DB3 or LAD 4BB3	135	-
	with LA4 DF, DT	142	142
	with LA4 DM, DW, DL	150	150
С	without cover or add-on blocks	125	125
	with cover, without add-on blocks	130	130
c1	with LAD N (1 contact)	150	150
	with LAD N or C (2 or 4 contacts)	158	158
c2	with LA6 DK10, LAD 6DK	170	170
с3	with LAD T, R, S	178	178
	with LAD T, R, S and sealing cover	182	182

# **Product data sheet**

LC1D95F7

Connections and Schema

## Wiring

