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

LC1D95F7

M	a	İ	r	1	

·····	
Range	TeSys
Range of product	TeSys D
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
[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
[Uc] control circuit voltage	110 V AC 50/60 Hz
Complementary	
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	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
Compatibility code	LC1D
Pole contact composition	3 NO
Contact compatibility	M11
Protective cover	With
[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
[Icw] 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
Power dissipation per pole	12.5 W AC-1 7.2 W AC-3 7.2 W AC-3e
[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: 600 V conforming to IEC 60947-1 Signalling circuit: 600 V CSA certified Signalling circuit: 600 V UL certified
Overvoltage category	III
Pollution degree	3
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947
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
Electrical durability	1.2 Mcycles 95 A AC-3 1.3 Mcycles 125 A AC-1 1.2 Mcycles 95 A AC-3e
Control circuit type	AC at 50/60 Hz standard
Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.81.1 Uc (-4055 °C):operational AC 50 Hz 0.851.1 Uc (-4055 °C):operational AC 60 Hz 0.30.6 Uc (-4070 °C):drop-out AC 50/60 Hz 11.1 Uc (5570 °C):operational AC 50/60 Hz
Inrush power in VA	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
Operating time	2035 ms closing 620 ms opening
Maximum operating rate	3600 cyc/h 60 °C
Connections - terminals	Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 12.5 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without cable end Power circuit: connector 1 450 mm² - cable stiffness: flexible without cable end Power circuit: connector 2 425 mm² - cable stiffness: flexible with cable end Power circuit: connector 1 450 mm² - cable stiffness: flexible with cable end Power circuit: connector 2 416 mm² - cable stiffness: solid without cable end Power circuit: connector 1 450 mm² - cable stiffness: solid without cable end Power circuit: connector 2 425 mm² - cable stiffness: solid 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
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 25.400 ftc		
Minimum awitching current 5 m.A for signalling circuit	Signalling circuit frequency	25400 Hz
Insulation resistance > 10 MOhm for signalling circuit Non-overfap time 1.5 ms on de-energisation between NC and NO contact 1.5 ms on terrupisation between NC and NO contact Rail Plate Environment Standards Envire Gosar-1 ENVICE Gosar-1 ENVICE Gosar-2-1 ENVICE Gosar-3-1 UL 60347-41 ENVICE Gosar-3-1 ENVICE	Minimum switching voltage	17 V for signalling circuit
Non-overlap time 1.5 ms on de-energisation between NC and NO contact 1.5 ms on energis	Minimum switching current	5 mA for signalling circuit
1.5 ms on energitation between NC and NO contact Politic Pol	Insulation resistance	> 10 MOhm for signalling circuit
Piete	Non-overlap time	
Standards	Mounting support	
ENIEC 60947-4-1 U. 00947-5-1 U. 00947-5-1 U. 00947-6-1 U. 00947-6-1 U. 00947-6-1 U. 00947-6-1 U. 00947-6-1 O.	Environment	
UL CSA CCC EAC LROS (Lloyds register of shipping) RIVA BV DNV-GL IP degree of protection IP20 front face conforming to IEC 60529 Protective treatment TH conforming to IEC 60529 Protective treatment Climatic withstand conforming to IACS E10 exposure to damp heat Permissible ambient air temperature around the device 6970 °C with derating Operating altitude 03000 m Fire resistance 850 °C conforming to IEC 60695-2-1 Flame retardance V1 conforming to UE 60695-2-1 Flame retardance V1 conforming to UE 60695-2-1 Flame robustness V1 fornions contactor open (2 Gn. 5300 Hz) Shocks contactor open (8 Gn for 11 ms) Vibrations contactor closed (3 Gn. 6300 Hz) Shocks contactor closed (3 Gn. 6300	Standards	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
Protective treatment TH conforming to IEC 60068-2-30 Climatic withstand conforming to IACS E10 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) Shocks contactor closed (3 Gn, 5300 Hz) Shocks contactor closed (10 Gn for 11 ms) Vibrations contactor closed (10 Gn for 11 ms) Width 85 mm Depth 130 mm Product weight 1.61 kg Packing Units Unit Type of Package 1 PCE Number of Units in Package 1 Package 1 Width 1.554 kg Unit Type of Package 2 Number of Units in Package 2 Soc	Product certifications	UL CSA CCC EAC LROS (Lloyds register of shipping) RINA BV
Climatic withstand conforming to IACS E10 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) Shocks contactor open (8 Gn for 11 ms) Vibrations contactor closed (10 Gn for 11 ms) Height 127 mm Width 85 mm Depth 130 mm Product weight 1.61 kg Packing Units Unit Type of Package 1 PCE Number of Units in Package 1 1.000 cm Package 1 Weight 1.554 kg Unit Type of Package 2 S02 Number of Units in Package 2 Fackage 2 Height 15.000 cm	IP degree of protection	IP20 front face conforming to IEC 60529
Permissible ambient air 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 (13 Gn, 5300 Hz) Shocks contactor closed (10 Gn for 11 ms) Height 127 mm Width 85 mm Depth 130 mm Product weight 1.61 kg Packing Units Unit Type of Package 1 PCE Number of Units in Package 1 1 Package 1 Height 13.500 cm Package 1 Weight 1.554 kg Unit Type of Package 2 S02 Number of Units in Package 2 5 Package 2 Height 15.000 cm	Protective treatment	TH conforming to IEC 60068-2-30
temperature around the device Operating altitude O3000 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) Vibrations contactor closed (10 Gn for 11 ms) Height 127 mm Width 85 mm Depth 130 mm Product weight 1.61 kg Packing Units Unit Type of Package 1 PCE Number of Units in Package 1 1 Package 1 Height 10.000 cm Package 1 Weight 1.554 kg Unit Type of Package 2 S02 Number of Units in Package 2 Fackage 2 Height 15.000 cm	Climatic withstand	conforming to IACS E10 exposure to damp heat
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, 5300 Hz) Shocks contactor obsed (10 Gn for 11 ms) Height 127 mm Width 85 mm Depth 130 mm Product weight 1.61 kg Packing Units Unit Type of Package 1 PCE Number of Units in Package 1 1 Package 1 Height 14.000 cm Package 1 Width 13.500 cm Package 1 Units 1.554 kg Unit Type of Package 2 S02 Number of Units in Package 2 S02 Number of Units in Package 2 5 Package 2 Height 15.000 cm		
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 Product weight 1.61 kg Packing Units Unit Type of Package 1 PCE Number of Units in Package 1 Package 1 Height 13.500 cm Package 1 Weight 1.554 kg Unit Type of Package 2 S02 Number of Units in Package 2 S02 Number of Units in Package 2 Fackage 2 Height 15.000 cm	Operating altitude	03000 m
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 Product weight 1.61 kg Packing Units Unit Type of Package 1 PCE Number of Units in Package 1 1 Package 1 Height 14.000 cm Package 1 Width 13.500 cm Package 1 Weight 1.554 kg Unit Type of Package 2 802 Number of Units in Package 2 5 Package 2 Height 15.000 cm	Fire resistance	850 °C conforming to IEC 60695-2-1
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 Product weight 1.61 kg Packing Units Unit Type of Package 1 PCE Number of Units in Package 1 1 Package 1 Height 14.000 cm Package 1 Width 13.500 cm Package 1 Length 10.000 cm Package 1 Weight 1.554 kg Unit Type of Package 2 S02 Number of Units in Package 2 5 Package 2 Height 15.000 cm	Flame retardance	V1 conforming to UL 94
Width 85 mm Depth 130 mm Product weight 1.61 kg Packing Units Unit Type of Package 1 PCE Number of Units in Package 1 1 Package 1 Height 14.000 cm Package 1 Width 13.500 cm Package 1 Weight 1.554 kg Unit Type of Package 2 S02 Number of Units in Package 2 5 Package 2 Height 15.000 cm	Mechanical robustness	Shocks contactor open (8 Gn for 11 ms) Vibrations contactor closed (3 Gn, 5300 Hz)
Depth 130 mm Product weight 1.61 kg Packing Units Unit Type of Package 1 PCE Number of Units in Package 1 1 Package 1 Height 14.000 cm Package 1 Width 13.500 cm Package 1 Length 10.000 cm Package 1 Weight 1.554 kg Unit Type of Package 2 S02 Number of Units in Package 2 5 Package 2 Height 15.000 cm	Height	127 mm
Product weight 1.61 kg Packing Units Unit Type of Package 1 Package 1 Height Package 1 Height Package 1 Width Package 1 Length Package 1 Weight 1.554 kg Unit Type of Package 2 Number of Units in Package 2 Package 2 Height 15.000 cm	Width	85 mm
Packing Units Unit Type of Package 1 PCE Number of Units in Package 1 1 Package 1 Height 14.000 cm Package 1 Width 13.500 cm Package 1 Length 10.000 cm Package 1 Weight 1.554 kg Unit Type of Package 2 S02 Number of Units in Package 2 5 Package 2 Height 15.000 cm	Depth	130 mm
Unit Type of Package 1 PCE Number of Units in Package 1 1 Package 1 Height 14.000 cm Package 1 Width 13.500 cm Package 1 Length 10.000 cm Package 1 Weight 1.554 kg Unit Type of Package 2 S02 Number of Units in Package 2 5 Package 2 Height 15.000 cm	Product weight	1.61 kg
Unit Type of Package 1 PCE Number of Units in Package 1 1 Package 1 Height 14.000 cm Package 1 Width 13.500 cm Package 1 Length 10.000 cm Package 1 Weight 1.554 kg Unit Type of Package 2 S02 Number of Units in Package 2 5 Package 2 Height 15.000 cm		
Number of Units in Package 1 1 Package 1 Height 14.000 cm Package 1 Width 13.500 cm Package 1 Length 10.000 cm Package 1 Weight 1.554 kg Unit Type of Package 2 S02 Number of Units in Package 2 5 Package 2 Height 15.000 cm		
Package 1 Height 14.000 cm Package 1 Width 13.500 cm Package 1 Length 10.000 cm Package 1 Weight 1.554 kg Unit Type of Package 2 S02 Number of Units in Package 2 5 Package 2 Height 15.000 cm		
Package 1 Width 13.500 cm Package 1 Length 10.000 cm Package 1 Weight 1.554 kg Unit Type of Package 2 S02 Number of Units in Package 2 5 Package 2 Height 15.000 cm		
Package 1 Length 10.000 cm Package 1 Weight 1.554 kg Unit Type of Package 2 S02 Number of Units in Package 2 5 Package 2 Height 15.000 cm		
Package 1 Weight 1.554 kg Unit Type of Package 2 S02 Number of Units in Package 2 5 Package 2 Height 15.000 cm	<u> </u>	
Unit Type of Package 2 S02 Number of Units in Package 2 5 Package 2 Height 15.000 cm		10.000 cm
Number of Units in Package 2 5 Package 2 Height 15.000 cm	Package 1 Weight	1.554 kg
Package 2 Height 15.000 cm	Unit Type of Package 2	S02
	Number of Units in Package 2	5
Package 2 Width 30.000 cm	Package 2 Height	15.000 cm
g-	Package 2 Width	30.000 cm
	Package 2 Height	15.000 cm

Package 2 Length	40.000 cm
Package 2 Weight	8.110 kg
Unit Type of Package 3	P06
Number of Units in Package 3	80
Package 3 Height	75.000 cm
Package 3 Width	60.000 cm
Package 3 Length	80.000 cm
Package 3 Weight	133.700 kg

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

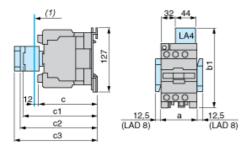
Warranty 18 months

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

Connections and Schema

Wiring

Recommended replacement(s)