Specifications



TeSys Deca contactor , 3P(3 NO) , AC-3/AC-3e , <= 440V, 95 A , 220V AC 50/60 Hz coil

LC1D95M7



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	220 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 with 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) 425 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		
Control circuit voltage limits	0.81.1 Uc (-4055 °C):operational AC 50 Hz		
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	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		
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 current	5 mA for signalling circuit		
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 energisation between NC and NO contact		
Insulation resistance	> 10 MOhm for signalling circuit		
Environment			
IP degree of protection	IP20 front face conforming to IEC 60529		
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			
Height Width	Shocks contactor closed: 10 Gn for 11 ms		
	Shocks contactor closed: 10 Gn for 11 ms  127 mm		
Width	Shocks contactor closed: 10 Gn for 11 ms  127 mm  85 mm		
Width	Shocks contactor closed: 10 Gn for 11 ms  127 mm  85 mm  130 mm		
Width Depth Net weight Packing Units	Shocks contactor closed: 10 Gn for 11 ms  127 mm  85 mm  130 mm  1.61 kg		
Width  Depth  Net weight  Packing Units  Unit Type of Package 1	Shocks contactor closed: 10 Gn for 11 ms  127 mm  85 mm  130 mm  1.61 kg  PCE		
Width  Depth  Net weight  Packing Units  Unit Type of Package 1  Number of Units in Package 1	Shocks contactor closed: 10 Gn for 11 ms  127 mm  85 mm  130 mm  1.61 kg  PCE		
Width  Depth  Net weight  Packing Units  Unit Type of Package 1  Number of Units in Package 1  Package 1 Weight	Shocks contactor closed: 10 Gn for 11 ms  127 mm  85 mm  130 mm  1.61 kg  PCE  1 1.556 kg		
Width  Depth  Net weight  Packing Units  Unit Type of Package 1  Number of Units in Package 1  Package 1 Weight  Package 1 Height	Shocks contactor closed: 10 Gn for 11 ms  127 mm  85 mm  130 mm  1.61 kg  PCE  1 1.556 kg  9.5 cm		
Width  Depth  Net weight  Packing Units  Unit Type of Package 1  Number of Units in Package 1  Package 1 Weight  Package 1 Height  Package 1 width	Shocks contactor closed: 10 Gn for 11 ms  127 mm  85 mm  130 mm  1.61 kg  PCE  1 1.556 kg  9.5 cm		
Width  Depth  Net weight  Packing Units  Unit Type of Package 1  Number of Units in Package 1  Package 1 Weight  Package 1 Height  Package 1 width  Package 1 Length	Shocks contactor closed: 10 Gn for 11 ms  127 mm  85 mm  130 mm  1.61 kg  PCE  1  1.556 kg  9.5 cm  13.5 cm		
Width  Depth  Net weight  Packing Units  Unit Type of Package 1  Number of Units in Package 1  Package 1 Weight  Package 1 Height  Package 1 Length  Unit Type of Package 2	Shocks contactor closed: 10 Gn for 11 ms  127 mm  85 mm  130 mm  1.61 kg  PCE  1  1.556 kg  9.5 cm  13.5 cm  14 cm  S02		
Width  Depth  Net weight  Packing Units  Unit Type of Package 1  Number of Units in Package 1  Package 1 Weight  Package 1 Height  Package 1 Length  Unit Type of Package 2  Number of Units in Package 2	Shocks contactor closed: 10 Gn for 11 ms  127 mm  85 mm  130 mm  1.61 kg  PCE  1  1.556 kg  9.5 cm  13.5 cm  14 cm  S02		
Width  Depth  Net weight  Packing Units  Unit Type of Package 1  Number of Units in Package 1  Package 1 Weight  Package 1 Height  Package 1 Length  Unit Type of Package 2  Number of Units in Package 2  Package 2 Weight	Shocks contactor closed: 10 Gn for 11 ms  127 mm  85 mm  130 mm  1.61 kg  PCE  1  1.556 kg  9.5 cm  13.5 cm  14 cm  \$02  5  8.09 kg		
Width  Depth  Net weight  Packing Units  Unit Type of Package 1  Number of Units in Package 1  Package 1 Weight  Package 1 Height  Package 1 Length  Unit Type of Package 2  Number of Units in Package 2  Package 2 Weight  Package 2 Height	Shocks contactor closed: 10 Gn for 11 ms  127 mm  85 mm  130 mm  1.61 kg  PCE  1  1.556 kg  9.5 cm  13.5 cm  14 cm  S02  5  8.09 kg  15 cm		

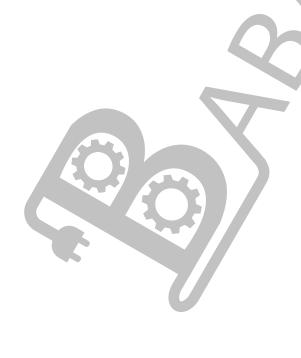
Unit Type of Package 3	P06
Number of Units in Package 3	80
Package 3 Weight	140.26 kg
Package 3 Height	77 cm
Package 3 width	60 cm
Package 3 Length	80 cm

Offer Sustainability

\ /		
Green Premium product		
REACh Declaration		
Yes /		
Compliant EU RoHS Declaration		
Yes		
Yes		
Yes		
China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)		
Product Environmental Profile		
The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins		
Yes		
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

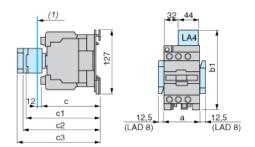


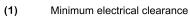
## **Product data sheet**

# LC1D95M7

#### **Dimensions Drawings**

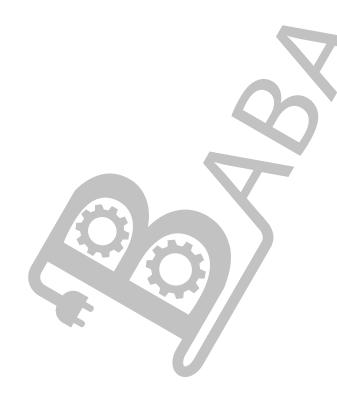
#### **Dimensions**







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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**

Connections and Schema

LC1D95M7

Wiring

