Product data sheet Characteristics

LC1D95B7

TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 95 A - 24 V AC 50/60 Hz coil



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Range	TeSys	
Product name	TeSys D	
Product or component type	Contactor	
Device short name	LC1D	
Contactor application	Motor control Resistive load	
Utilisation category	AC-3 AC-1 AC-4	4
Poles description	3P	
Pole contact composition	3 NO	<u></u>
[Ue] rated operational voltage	<= 300 V DC 25400 Hz for power circuit <= 1000 V AC for power circuit	; :: :: ::
[le] rated operational current	125 A (<= 60 °C) at <= 440 V AC AC-1 for power circuit 95 A (<= 60 °C) at <= 440 V AC AC-3 for power circuit	
Motor power kW	45 kW at 660690 V AC 50/60 Hz AC-3 45 kW at 415440 V AC 50/60 Hz AC-3 55 kW at 500 V AC 50/60 Hz AC-3 45 kW at 1000 V AC 50/60 Hz AC-3 15 kW at 400 V AC 50/60 Hz AC-4 25 kW at 220230 V AC 50/60 Hz AC-3 45 kW at 380400 V AC 50/60 Hz AC-3	
Motor power hp	20 hp at 200/208 V AC 50/60 Hz for 3 phases motors 7.5 hp at 115 V AC 50/60 Hz for 1 phase motors 15 hp at 230/240 V AC 50/60 Hz for 1 phase motors 25 hp at 230/240 V AC 50/60 Hz for 3 phases motors 60 hp at 460/480 V AC 50/60 Hz for 3 phases motors 60 hp at 575/600 V AC 50/60 Hz for 3 phases motors	, , , , , , , , , , , , , , , , , , ,
Control circuit type	AC 50/60 Hz	7
[Uc] control circuit voltage	24 V AC 50/60 Hz	
Auxiliary contact composition	1 NO + 1 NC	
[Uimp] rated impulse withstand voltage	Conforming to IEC 60947	
Overvoltage category	III	
[Ith] conventional free air thermal current	125 A at <= 60 °C for power circuit 10 A at <= 60 °C for signalling circuit	
Irms rated making capacity	1100 A at 440 V for power circuit conforming to IEC 60947 140 A AC for signalling circuit conforming to IEC 60947-5-1	

160 A gG at <= 690 V coordination type 2 for power circuit 200 A gG at <= 690 V coordination type 1 for power circuit 10 A gG for signalling circuit conforming to IEC 60947-5-1	
1000 V for power circuit conforming to IEC 60947-4-1 600 V for power circuit certifications CSA 600 V for power circuit certifications UL 690 V for signalling circuit conforming to IEC 60947-1 600 V for signalling circuit certifications CSA 600 V for signalling circuit certifications UL	
- cable stiffness: flexible - with cable	
cable stiffness: flexible - without cable cable stiffness: flexible - without cable cable stiffness: solid - without cable end cable stiffness: solid - without cable end - cable stiffness: flexible - with cable ss: flexible - without cable end ss: flexible - without cable end ss: flexible - with cable end	
ss: flexible - with cable end ss: solid - without cable end ss: solid - without cable end	
6 to Ø 8 mm ewdriver flat Ø 6 mm ewdriver Philips No 2	
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	

Complementary

Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.851.1 Uc operational at 55 °C, AC 60 Hz 0.30.6 Uc drop-out at 55 °C, AC 50/60 Hz 0.81.1 Uc operational at 55 °C, AC 50 Hz
Inrush power in VA	245 VA at 20 °C (cos φ 0.75) 60 Hz 245 VA at 20 °C (cos φ 0.75) 50 Hz
Hold-in power consumption in VA	26 VA at 20 °C (cos φ 0.3) 60 Hz 26 VA at 20 °C (cos φ 0.3) 50 Hz
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

- IIII OI III II II II II II II II II II	
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	-560 °C
Ambient air temperature for storage	-6080 °C
Permissible ambient air temperature around the device	-4070 °C at Uc
Operating altitude	3000 m without derating in temperature
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
Height	127 mm
Width	85 mm
Depth	130 mm
Product weight	1.61 kg

Contractual warranty

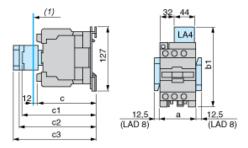
Warranty period	18 months	

Product data sheet

Dimensions Drawings

LC1D95B7

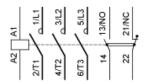
Dimensions



(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	

Wiring



LC1D95B7

Our Proposal - Type 1 : Circuit Breaker + Contactor for Motor Power 45 kW and 415 VAC

Motor power (kW)	ICU (kA)	Breaker	Contactor (*)
45	36		
		GV7RE100	LC1D95B7

Non contractual pictures.

Type 1 coordination requires that in a short-circuit condition, the contactor or starter must not present any danger to personnel or installations and must not be able to resume operation without repair or the replacement of parts.