# Product datasheet Characteristics

# LC1D95F7

TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 95 A - 110 V AC 50/60 Hz coil

Price\*: 288.08 GBP



Main	ToCue	
Range	TeSys	
Product name	TeSys D	
Product or component type	Contactor	
Device short name	LC1D	
Contactor application	Resistive load Motor control	
Utilisation category	AC-3 AC-1 AC-4	
Poles description	3P	
Pole contact composition	3 NO	
[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	
[Uc] control circuit voltage	110 V AC 50/60 Hz	
Auxiliary contact composition	1 NO + 1 NC	
[Uimp] rated impulse withstand voltage	e Conforming to IEC 60947	
Overvoltage category	III	
[lth] 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 60947-5-1 250 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	·	
Associated fuse rating	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	
Average impedance	0.8 mOhm at 50 Hz - Ith 125 A for power circuit	
[Ui] rated insulation voltage	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	
Electrical durability	1.2 Mcycles 95 A AC-3 at Ue <= 440 V 1.3 Mcycles 125 A AC-1 at Ue <= 440 V	
Power dissipation per pole	7.2 W AC-3 12.5 W AC-1	
Protective cover	With	
Mounting support	Rail Plate	
Standards	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508	
Product certifications	CCC LROS (Lloyds register of shipping) BV RINA DNV GL GOST	
Connections - terminals	Control circuit: screw clamp terminals 2 cable(s) 12.5 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 1 cable(s) 12.5 mm² - cable stiffness: flexible - with cable end Control circuit: connector 1 cable(s) 450 mm² - cable stiffness: flexible - without cable end Power circuit: connector 2 cable(s) 450 mm² - cable stiffness: flexible - without cable end Power circuit: connector 1 cable(s) 450 mm² - cable stiffness: flexible - with cable end Power circuit: connector 1 cable(s) 450 mm² - cable stiffness: flexible - with cable end Power circuit: connector 1 cable(s) 450 mm² - cable stiffness: solid - without cable end Power circuit: connector 1 cable(s) 450 mm² - cable stiffness: solid - without cable end Power circuit: connector 2 cable(s) 450 mm² - cable stiffness: solid - without cable end	
Tightening torque	Power circuit: 9 N.m - on connector - with screwdriver flat Ø 6 to Ø 8 mm Power circuit: 9 N.m - on connector hexagonal 4 mm 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	
Operating time	2035 ms closing 620 ms opening	
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	4 Mcycles	
Operating rate	3600 cyc/h at <= 60 °C	

## 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

ZIII OIII IOII	
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

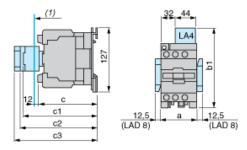
### Contractual warranty

Warranty period	18 months		

# Product datasheet LC1D95F7

# **Dimensions Drawings**

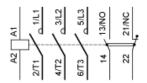
#### Dimensions



#### (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	

Wiring



# LC1D95F7

## 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	LC1D95F7

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.