Product data sheet Characteristics

LC1D25F7

TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 25 A - 110 V AC coil



Price*: 61.62 GBP



Main

Range of product	TeSys D	
Range	TeSys	
Product name	TeSys D	
Product or component type	Contactor	
Device short name	LC1D	
Contactor application	Motor control Resistive load	
Utilisation category	AC-1 AC-3 AC-4	
Poles description	3P	
Pole contact composition	3 NO	
[Ue] rated operational voltage	<= 300 V DC for power circuit <= 690 V AC 25400 Hz for power circuit	
[le] rated operational current	25 A (<= 60 °C) at <= 440 V AC AC-3 for power circuit 40 A (<= 60 °C) at <= 440 V AC AC-1 for power circuit	
Motor power kW	11 kW at 380400 V AC 50/60 Hz AC-3 15 kW at 500 V AC 50/60 Hz AC-3 15 kW at 660690 V AC 50/60 Hz AC-3 5.5 kW at 220230 V AC 50/60 Hz AC-3 11 kW at 415440 V AC 50/60 Hz AC-3 5.5 kW at 400 V AC 50/60 Hz AC-4	
Motor power hp	2 hp at 115 V AC 50/60 Hz for 1 phase motors 7.5 hp at 200/208 V AC 50/60 Hz for 3 phases motors 3 hp at 230/240 V AC 50/60 Hz for 1 phase motors 7.5 hp at 230/240 V AC 50/60 Hz for 3 phases motors 15 hp at 460/480 V AC 50/60 Hz for 3 phases motors 20 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	6 kV conforming to IEC 60947	
Overvoltage category	III	
[Ith] conventional free air thermal current	40 A at <= 60 °C for power circuit 10 A at <= 60 °C for signalling circuit	
Irms rated making capacity	450 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	450 A at 440 V for power circuit conforming to IEC 60947	

P. T. C. L. C.	400 A 40 00 A	
[lcw] rated short-time withstand current	120 A <= 40 °C 1 min power circuit 240 A <= 40 °C 10 s power circuit 380 A <= 40 °C 1 s power circuit 50 A <= 40 °C 10 min power circuit 100 A 1 s signalling circuit 120 A 500 ms signalling circuit 140 A 100 ms signalling circuit	
Associated fuse rating	40 A gG at <= 690 V coordination type 2 for power circuit 63 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	2 mOhm at 50 Hz - Ith 40 A for power circuit	
[Ui] rated insulation voltage	600 V for power circuit certifications CSA 600 V for power circuit certifications UL 690 V for power circuit conforming to IEC 60947-4-1 690 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	1.65 Mcycles 25 A AC-3 at Ue <= 440 V 1.4 Mcycles 40 A AC-1 at Ue <= 440 V	
Power dissipation per pole	3.2 W AC-1 1.25 W AC-3	
Protective cover	With	
Mounting support	Plate Rail	
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	BV CCC CSA DNV GL GOST LROS (Lloyds register of shipping) RINA UL	
Connections - terminals	Control circuit: screw clamp terminals 2 cable(s) 12.5 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 1 cable(s) 1.510 mm² - cable stiffness: solid - without 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: flexible - with 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 Power circuit: screw clamp terminals 1 cable(s) 2.510 mm² - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 2 cable(s) 2.510 mm² - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 1 cable(s) 110 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 2 cable(s) 1.56 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 2 cable(s) 2.510 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 2 cable(s) 2.510 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 2 cable(s) 2.510 mm² - cable stiffness: flexible - with cable end	
Tightening torque	Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 2.5 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Power circuit: 2.5 N.m - on screw clamp terminals - with screwdriver Philips No 2	
Operating time	419 ms opening 1222 ms closing	
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	15 Mcycles
Operating rate	3600 cyc/h at <= 60 °C

Complementary

Without built-in suppressor module	
0.30.6 Uc drop-out at 60 °C, AC 50/60 Hz 0.81.1 Uc operational at 60 °C, AC 50 Hz 0.851.1 Uc operational at 60 °C, AC 60 Hz	
70 VA at 20 °C (cos φ 0.75) 60 Hz 70 VA at 20 °C (cos φ 0.75) 50 Hz	
7.5 VA at 20 °C (cos φ 0.3) 60 Hz 7 VA at 20 °C (cos φ 0.3) 50 Hz	
23 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 energisation between NC and NO contact 1.5 ms on de-energisation between NC and NO contact	
> 10 MOhm for signalling circuit	
M2	
LC1D	
711 kW 380440 V 3 phases 711 kW 480500 V 3 phases 46 kW 200240 V 3 phases	
Direct on-line contactor	
110 V AC standard	

Environment

Livionnent		
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 Vibrations contactor closed 4 Gn, 5300 Hz Shocks contactor closed 15 Gn for 11 ms Shocks contactor open 8 Gn for 11 ms	
Height	85 mm	
Width	45 mm	
Depth	92 mm	
Product weight	0.37 kg	

Offer Sustainability

 		
Sustainable offer status	Green Premium product	
RoHS (date code: YYWW)	Compliant - since 0627 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity	
REACh	Reference not containing SVHC above the threshold	
Product environmental profile	Available Product Environmental Profile	
Product end of life instructions	Available End Of Life Information	



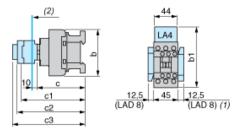
Warranty period

18 months

Product data sheet **Dimensions Drawings**

LC1D25F7

Dimensions



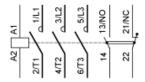
- Including LAD 4BB Minimum electrical clearance

LC1		D25D38 (3-pole)
b	without add-on blocks	85
b1	with LAD 4BB	98
with LA4 D	2 114 ⁽¹⁾	
with LA4 DF	F, DT ₁₂₃ ⁽¹⁾	
with LA4 DV	N, D- ₁₃₀ ⁽¹⁾	
С	without cover or add-on blocks	90
with cover,	witho@2add-on blocks	
c1	with LAD N or C (2 or 4 contacts)	123
c2	with LA6 DK10, LAD 6K10	135
c3	with LAD T, R, S	143
with LAD T,	R, S tathīd sealing cover	
(1)	Including LAD 4BB.	'

Product data sheet Connections and Schema

LC1D25F7

Wiring



Product Life Status: Commercialised