Product datasheet Characteristics

LC1D09F7

TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 9 A - 110 V AC coil



Main

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Range of product	TeSys D	
Range	TeSys	20 S
Product name	TeSys D	
Product or component type	Contactor	
Device short name	LC1D	
Contactor application	Motor control Resistive load	<u></u>
Utilisation category	AC-3 AC-1	
Poles description	3P	2. 2.
Pole contact composition	3 NO	
[Ue] rated operational voltage	<= 300 V DC for power circuit <= 690 V AC 25400 Hz for power circuit	, c
[le] rated operational current	9 A (<= 60 °C) at <= 440 V AC AC-3 for power circuit 25 A (<= 60 °C) at <= 440 V AC AC-1 for power circuit	9
Motor power kW	2.2 kW at 220230 V AC 50/60 Hz 5.5 kW at 500 V AC 50/60 Hz 4 kW at 415440 V AC 50/60 Hz 4 kW at 380400 V AC 50/60 Hz 5.5 kW at 660690 V AC 50/60 Hz	orbetti ita for and is not to ba read for Adamining or rationality, or rationality, of the
Motor power hp	2 hp at 230/240 V AC 50/60 Hz for 3 phases motors 1 hp at 230/240 V AC 50/60 Hz for 1 phase motors 2 hp at 200/208 V AC 50/60 Hz for 3 phases motors 7.5 hp at 575/600 V AC 50/60 Hz for 3 phases motors 5 hp at 460/480 V AC 50/60 Hz for 3 phases motors 0.5 hp at 115 V AC 50/60 Hz for 1 phase motors	ri tor o
Control circuit type	AC 50/60 Hz	
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	or or This Arvertigation
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[lth] conventional free air thermal current	10 A at <= 60 °C for signalling circuit 25 A at <= 60 °C for power circuit
Irms rated making capacity	250 A DC for signalling circuit conforming to IEC 60947-5-1 250 A at 440 V for power circuit conforming to IEC 60947 140 A AC for signalling circuit conforming to IEC 60947-5-1
Rated breaking capacity	250 A at 440 V for power circuit conforming to IEC 60947
[lcw] rated short-time withstand current	30 A <= 40 °C 10 min power circuit 210 A <= 40 °C 1 s power circuit 140 A 100 ms signalling circuit 105 A <= 40 °C 10 s power circuit 120 A 500 ms signalling circuit 100 A 1 s signalling circuit 61 A <= 40 °C 1 min power circuit
Associated fuse rating	20 A gG at <= 690 V coordination type 2 for power circuit 10 A gG for signalling circuit conforming to IEC 60947-5-1 25 A gG at <= 690 V coordination type 1 for power circuit
Average impedance	2.5 mOhm at 50 Hz - Ith 25 A for power circuit
[Ui] rated insulation voltage	600 V for signalling circuit certifications CSA 690 V for power circuit conforming to IEC 60947-4-1 600 V for power circuit certifications CSA 600 V for power circuit certifications UL 600 V for signalling circuit certifications UL 690 V for signalling circuit conforming to IEC 60947-1
Electrical durability	2 Mcycles 9 A AC-3 at Ue <= 440 V 0.6 Mcycles 25 A AC-1 at Ue <= 440 V
Power dissipation per pole	0.2 W AC-3 1.56 W AC-1
Protective cover	With
Mounting support	Plate Rail
Standards	IEC 60947-4-1 UL 508 EN 60947-5-1 IEC 60947-5-1 EN 60947-4-1 CSA C22.2 No 14
Product certifications	GOST DNV RINA LROS CSA CCC BV UL GL
Connections - terminals	Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: solid - without cable end Power circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: solid - without cable end Power 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 Power circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: solid - without cable end Power circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: flexible - without cable end Power 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 - without cable end
Tightening torque	Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power 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 flat Ø 6 mm
Operating time	1222 ms closing 419 ms opening



Safety reliability level	B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1 B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1
Mechanical durability	15 Mcycles
Operating rate	3600 cyc/h at <= 60 °C

Complementary

Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.81.1 Uc operational at 60 °C, AC 50 Hz 0.851.1 Uc operational at 60 °C, AC 60 Hz 0.30.6 Uc drop-out at 60 °C, AC 50/60 Hz
Inrush power in VA	70 VA at 20 °C (cos φ 0.75) 60 Hz 70 VA at 20 °C (cos φ 0.75) 50 Hz
Hold-in power consumption in VA	7 VA at 20 °C (cos φ 0.3) 50 Hz 7.5 VA at 20 °C (cos φ 0.3) 60 Hz
Heat dissipation	23 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 energisation (between NC and NO contact) 1.5 ms on de-energisation (between NC and NO contact)
Insulation resistance	> 10 MOhm for signalling circuit
Contact compatibility	M2
Compatibility code	LC1D

Environment

IP degree of protection	IP2x front face conforming to IEC 60529
Protective treatment	TH conforming to IEC 60068-2-30
Pollution degree	3
Ambient air temperature for operation	-2060 °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 closed 4 Gn, 5300 Hz Shocks contactor closed 15 Gn for 11 ms Vibrations contactor open 2 Gn, 5300 Hz Shocks contactor open 10 Gn for 11 ms
Height	77 mm
Width	45 mm
Depth	86 mm
Product weight	0.32 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	
	Reference not containing SVHC above the threshold	
Product environmental profile	Available	
	Product environmental	
Product end of life instructions	Available	



Contractual warranty

Warranty period 18 months

