

LC1D40A6LE7

TeSys D contactor - 3P(3 NO) - AC-3 - \leq 440 V 40 A - 208 V AC 50/60 Hz coil



Main

Range	TeSys
Product name	TeSys D
Product or component type	Contacteur
Device short name	LC1D
Contacteur application	Motor control Resistive load
Utilisation category	AC-1 AC-3
Poles description	3P
Pole contact composition	3 NO
[Ue] rated operational voltage	\leq 690 V AC 25...400 Hz for power circuit \leq 300 V DC for power circuit
[Ie] rated operational current	40 A (\leq 60 °C) at \leq 440 V AC AC-3 for power circuit 60 A (\leq 60 °C) at \leq 440 V AC AC-1 for power circuit
Motor power kW	11 kW at 220...230 V AC 50/60 Hz 22 kW at 500 V AC 50/60 Hz 30 kW at 660...690 V AC 50/60 Hz 18.5 kW at 380...400 V AC 50/60 Hz 22 kW at 415...440 V AC 50/60 Hz
Motor power hp	5 hp at 230/240 V AC 50/60 Hz for 1 phase motors 10 hp at 230/240 V AC 50/60 Hz for 3 phases motors 30 hp at 575/600 V AC 50/60 Hz for 3 phases motors 3 hp at 115 V AC 50/60 Hz for 1 phase motors 10 hp at 200/208 V AC 50/60 Hz for 3 phases motors 30 hp at 460/480 V AC 50/60 Hz for 3 phases motors
Control circuit type	AC 50/60 Hz
Control circuit voltage	208 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	60 A at \leq 60 °C for power circuit 10 A at \leq 60 °C for signalling circuit
Irms rated making capacity	800 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	800 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	100 A 1 s signalling circuit 120 A 500 ms signalling circuit 140 A 100 ms signalling circuit 320 A \leq 40 °C 10 s power circuit 720 A \leq 40 °C 1 s power circuit 72 A \leq 40 °C 10 min power circuit 165 A \leq 40 °C 1 min power circuit
Associated fuse rating	80 A gG at \leq 690 V coordination type 1 for power circuit 80 A gG at \leq 690 V coordination type 2 for power circuit 10 A gG for signalling circuit conforming to IEC

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	60947-5-1
Average impedance	1.5 mOhm at 50 Hz - Ith 60 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	1.5 Mcycles 40 A AC-3 at $U_e \leq 440$ V 1.4 Mcycles 60 A AC-1 at $U_e \leq 440$ V
Power dissipation per pole	5.4 W AC-1 2.4 W AC-3
Protective cover	With
Mounting support	Plate Rail
Standards	EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 CSA C22.2 No 14
Product certifications	CCC CSA GOST UL
Connections - terminals	Control circuit : lugs-ring terminals - external diameter: 8 mm Power circuit : lugs-ring terminals - external diameter: 16.5 mm
Tightening torque	Control circuit : 1.7 N.m - on lugs-ring terminals - with screwdriver flat \varnothing 6 mm screw : M3.5 Control circuit : 1.7 N.m - on lugs-ring terminals - with screwdriver Philips No 2 screw : M3.5 Power circuit : 6 N.m - on lugs-ring terminals hexagonal 10 mm screw : M6
Operating time	12...26 ms closing 4...19 ms opening
Safety reliability level	B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 2000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1
Mechanical durability	6 Mcycles
Operating rate	3600 cyc/h at ≤ 60 °C

Complementary

Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.3...0.6 U_c at 60 °C drop-out 50/60 Hz 0.8...1.1 U_c at 60 °C operational 50 Hz 0.85...1.1 U_c at 60 °C operational 60 Hz
Inrush power in VA	140 VA at 20 °C ($\cos \phi$ 0.75) 60 Hz 160 VA at 20 °C ($\cos \phi$ 0.75) 50 Hz
Hold-in power consumption in VA	13 VA at 20 °C ($\cos \phi$ 0.3) 60 Hz 15 VA at 20 °C ($\cos \phi$ 0.3) 50 Hz
Heat dissipation	4...5 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	25...400 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	IP2x front face conforming to IEC 60529
Protective treatment	TH conforming to IEC 60068-2-30
Pollution degree	3
Ambient air temperature for operation	-5...60 °C
Ambient air temperature for storage	-60...80 °C
Permissible ambient air temperature around the device	-40...70 °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, 5...300 Hz Vibrations contactor closed 4 Gn, 5...300 Hz Shocks contactor open 10 Gn for 11 ms Shocks contactor closed 15 Gn for 11 ms
Height	122 mm
Width	55 mm
Depth	120 mm
Product weight	0.85 kg

Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS	Compliant - since 0001 - Schneider Electric declaration of conformity
Product end of life instructions	Need no specific recycling operations