Product datasheet Characteristics

LC1D65AU7

TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 65 A - 240 V AC 50/60 Hz coil



Main

Man		s
Range of product	TeSys D	
Range	TeSys	duct.
Product name	TeSys D	e pro
Product or component type	Contactor	—thes
Device short name	LC1D	—o ilit∨o
Contactor application	Resistive load Motor control	or reliability of these products for
Utilisation category	AC-3 AC-1	
Poles description	3P	
Pole contact composition	3 NO	termi
[Ue] rated operational voltage	<= 690 V AC 25400 Hz for power circuit <= 300 V DC for power circuit	ed for de
[le] rated operational current	80 A (<= 60 °C) at <= 440 V AC AC-1 for power circuit 65 A (<= 60 °C) at <= 440 V AC AC-3 for power circuit	to be us
Motor power kW	18.5 kW at 220230 V AC 50/60 Hz 30 kW at 380400 V AC 50/60 Hz 37 kW at 660690 V AC 50/60 Hz 37 kW at 500 V AC 50/60 Hz	substitute for and is not to be
Motor power hp	5 hp at 115 V AC 50/60 Hz for 1 phase motors 10 hp at 230/240 V AC 50/60 Hz for 1 phase motors 50 hp at 575/600 V AC 50/60 Hz for 3 phases motors 20 hp at 200/208 V AC 50/60 Hz for 3 phases motors 40 hp at 460/480 V AC 50/60 Hz for 3 phases motors 20 hp at 230/240 V AC 50/60 Hz for 3 phases motors	 not intended as a substit
Control circuit type	AC 50/60 Hz	
Control circuit voltage	240 V AC 50/60 Hz	_ ntatior
Auxiliary contact composition	1 NO + 1 NC	— umen
[Uimp] rated impulse withstand voltage	Conforming to IEC 60947	-s doc
Overvoltage category	III	mer: This documentation is

[Ith] conventional free air thermal current	10 A at <= 60 °C for signalling circuit 80 A at <= 60 °C for power circuit
Irms rated making capacity	1000 A at 440 V for power circuit conforming to IEC 60947 250 A DC for signalling circuit conforming to IEC 60947-5-1 140 A AC for signalling circuit conforming to IEC 60947-5-1
Rated breaking capacity	1000 A at 440 V for power circuit conforming to IEC 60947
[lcw] rated short-time withstand current	100 A 1 s signalling circuit 900 A <= 40 °C 1 s power circuit 140 A 100 ms signalling circuit 110 A <= 40 °C 10 min power circuit 120 A 500 ms signalling circuit 260 A <= 40 °C 1 min power circuit 520 A <= 40 °C 1 s power circuit
Associated fuse rating	125 A gG at <= 690 V coordination type 1 for power circuit 10 A gG for signalling circuit conforming to IEC 60947-5-1 125 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	1.5 mOhm at 50 Hz - Ith 80 A for power circuit
[Ui] rated insulation voltage	690 V for signalling circuit conforming to IEC 60947-1 600 V for power circuit certifications CSA 600 V for power circuit certifications UL 600 V for signalling circuit certifications CSA 600 V for signalling circuit certifications UL 690 V for power circuit conforming to IEC 60947-4-1
Electrical durability	1.4 Mcycles 80 A AC-1 at Ue <= 440 V 1.45 Mcycles 65 A AC-3 at Ue <= 440 V
Power dissipation per pole	6.3 W AC-3 9.6 W AC-1
Protective cover	With
Mounting support	Rail Plate
Standards	IEC 60947-5-1 UL 508 CSA C22.2 No 14 EN 60947-4-1 IEC 60947-4-1 EN 60947-5-1
Product certifications	CSA UL CCC GOST
Connections - terminals	Power circuit: EverLink BTR screw connectors 2 cable(s) 125 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: EverLink BTR screw connectors 2 cable(s) 125 mm² - cable stiffness: solid - without cable end Power circuit: EverLink BTR screw connectors 2 cable(s) 125 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm² - cable stiffness: flexible - with cable end Power circuit: EverLink BTR screw connectors 1 cable(s) 135 mm² - cable stiffness: solid - without cable end Power circuit: EverLink BTR screw connectors 1 cable(s) 135 mm² - cable stiffness: flexible - 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) 14 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - with cable end Power circuit: EverLink BTR screw connectors 1 cable(s) 135 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: flexible - with cable end
Tightening torque	Power circuit: 8 N.m - on EverLink BTR screw connectors - cable 2535 mm² hexagonal 4 mm Control 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 flat Ø 6 mm Power circuit: 5 N.m - on EverLink BTR screw connectors - cable <= 25 mm² hexagonal 4 mm
Operating time	419 ms opening 1226 ms closing
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	6 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 0.30.6 Uc drop-out at 60 °C, AC 50/60 Hz 0.851.1 Uc operational at 60 °C, AC 60 Hz	
Inrush power in VA	160 VA at 20 °C (cos φ 0.75) 50 Hz 140 VA at 20 °C (cos φ 0.75) 60 Hz	
Hold-in power consumption in VA	13 VA at 20 °C (cos φ 0.3) 60 Hz 15 VA at 20 °C (cos φ 0.3) 50 Hz	
Heat dissipation	45 W at 50/60 Hz	
Auxiliary contacts type	Type mirror contact (1 NC) conforming to IEC 60947-4-1 Type mechanically linked (1 NO + 1 NC) conforming to IEC 60947-5-1	
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	-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	Shocks contactor open 10 Gn for 11 ms Shocks contactor closed 15 Gn for 11 ms Vibrations contactor closed 4 Gn, 5300 Hz Vibrations contactor open 2 Gn, 5300 Hz
Height	122 mm
Width	55 mm
Depth	120 mm
Product weight	0.86 kg

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0501 - 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
	🚰 End of life manual
Product end of life instructions	Available

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Warranty period

18 months

