Product data sheet Characteristics

LC1D65AEHE

TeSys D contactor - 3P - <= 440 V - 65 A AC-3 -48...130 V AC/DC coil



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Main		
Range	TeSys	
Product name	TeSys D Green	
Product or component type	Contactor	ة إ
Device short name	LC1D	4
Contactor application	Motor control Resistive load	
Utilisation category	AC-1 AC-3	
Poles description	3P	
Pole contact composition	3 NO	
[Ue] rated operational voltage	<= 690 V AC 25400 Hz for power circuit	
[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	
Motor power kW	30 kW at 380400 V AC 50/60 Hz 37 kW at 500 V AC 50/60 Hz 37 kW at 660690 V AC 50/60 Hz 18.5 kW at 220230 V AC 50/60 Hz	
[Uc] control circuit voltage	48130 V DC 48130 V AC 50/60 Hz	
Coil type	AC/DC electronic	
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	80 A at <= 60 °C for power circuit 10 A at <= 60 °C for signalling circuit	
Irms rated making capacity	1000 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	1000 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 520 A <= 40 °C 10 s power circuit 900 A <= 40 °C 1 s power circuit 110 A <= 40 °C 10 min power circuit 260 A <= 40 °C 1 min power circuit
Associated fuse rating	125 A gG at <= 690 V coordination type 1 for power circuit 125 A gG at <= 690 V coordination type 2 for power circuit 10 A gG for signalling circuit conforming to IEC 60947-5-1
Average impedance	1.5 mOhm at 50 Hz - Ith 80 A for power circuit
[Ui] rated insulation voltage	690 V for power circuit conforming to IEC 60947-4-1 690 V for signalling circuit conforming to IEC 60947-1
Electrical durability	700000 cycles 80 A AC-1 at Ue <= 440 V 1.4 Mcycles 65 A AC-3 at Ue <= 440 V 37000 cycles AC-4 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	EN/IEC 60947-4-1 UL 60947-4-1 CSA C22.2 No 60947-4-1 EN/IEC 60947-5-1
Product certifications	UL CSA CCC EAC KC
Connections - terminals	 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: flexible - without cable end Power circuit : EverLink BTR screw connectors 1 cable(s) 135 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 2 cable(s) 135 mm² - cable stiffness: flexible - without cable end Power circuit : EverLink BTR screw connectors 2 cable(s) 125 mm² - cable stiffness: flexible - without cable end Power circuit : EverLink BTR screw connectors 2 cable(s) 125 mm² - cable stiffness: flexible - with 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: solid - without cable end Power circuit : EverLink BTR screw connectors 2 cable(s) 125 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: flexible - 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: solid - without 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 : 8 N.m - on EverLink BTR screw connectors - cable 2535 mm ² hexagonal 4 mm Power circuit : 5 N.m - on EverLink BTR screw connectors - cable 125 mm ² hexagonal 4 mm
Operating time	5565 ms closing 2030 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	6000000 cycles
Operating rate	3600 cyc/h at <= 60 °C

Complementary

Coil technology	Built-in bidirectional peak limiting
Control circuit voltage limits	<= 0.1 Uc drop-out at 60 °C 0.851.1 Uc operational at 60 °C
Inrush power in VA	23 VA at 20 °C 50/60 Hz
Inrush power in W	19 W at 20 °C

1.4 VA at 20 °C 50/60 Hz	
0.9 W at 20 °C	
0.9 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 de-energisation (between NC and NO contact) 1.5 ms on energisation (between NC and NO contact)	
> 10 MOhm for signalling circuit	
	0.9 W at 20 °C 0.9 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 de-energisation (between NC and NO contact) 1.5 ms on energisation (between NC and NO contact)

Environment

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	-2560 °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 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	1.002 kg
Colour	Grey SE GREY 6 Green SE GREEN 2

Offer Sustainability

Sustainable offer status	Not Green Premium product	
RoHS (date code: YYWW)	Compliant - since 1625 - Schneider Electric declaration of conformity	
	Schneider Electric declaration of conformity	
Product environmental profile	Available	
	Product environmental	
Product end of life instructions	Available	
	End of life manual	