Product data sheet Characteristics

LC1D40ABBE

TeSys D contactor - 3P - <= 440 V - 40 A AC-3 - 24 V DC coil



Main

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Range	TeSys	
Product name	TeSys D Green	
Product or component type	Contactor	
Device short name	LC1D	
Contactor application	Motor control Resistive load	
Utilisation category	AC-3 AC-1	
Poles description	3P	
Pole contact composition	3 NO	
[Ue] rated operational voltage	<= 690 V AC 25400 Hz for power circuit	
[le] rated operational current	40 A (<= 60 °C) at <= 440 V AC AC-3 for power circuit 60 A (<= 60 °C) at <= 440 V AC AC-1 for power circuit	:
Motor power kW	11 kW at 220230 V AC 50/60 Hz 22 kW at 500 V AC 50/60 Hz 30 kW at 660690 V AC 50/60 Hz 18.5 kW at 380400 V AC 50/60 Hz 22 kW at 415440 V AC 50/60 Hz	
[Uc] control circuit voltage	24 V DC	
Coil type	DC low consumption	
Auxiliary contact composition	1 NO + 1 NC	
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947	
Overvoltage category	III	
[lth] conventional free air thermal current	60 A at <= 60 °C for power circuit 10 A at <= 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	
[lcw] 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 <= 40 °C 10 s power circuit 720 A <= 40 °C 1 s power circuit 72 A <= 40 °C 10 min power circuit 165 A <= 40 °C 1 min power circuit
Associated fuse rating	80 A gG at <= 690 V coordination type 1 for power circuit 80 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 60 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	2 Mcycles 40 A AC-3 at Ue <= 440 V 700000 cycles 60 A AC-1 at Ue <= 440 V 50000 cycles AC-4 at Ue <= 440 V
Power dissipation per pole	5.4 W AC-1 2.4 W AC-3
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) 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 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 - 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 Control circuit: screw clamp terminals 2 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 mm² hexagonal 4 mm Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 125 mm² hexagonal 4 mm
Operating time	5565 ms closing 20120 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	0.81.2 Uc operational at 60 °C <= 0.1 Uc drop-out at 60 °C
Inrush power in W	11 W at 20 °C
Hold-in power consumption in W	0.5 W at 20 °C

Heat dissipation	0.5 W	
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 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

ing to IEC 60529
0068-2-30
in temperature
C 60695-2-1
en 2 Gn, 5300 Hz sed 4 Gn, 5300 Hz 10 Gn for 11 ms d 15 Gn for 11 ms

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	