LC1D65AFD

TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 65 A - 110 V DC standard coil



Panga	ToSuc	
Range Product name	TeSys TeSys D	
Product rrame Product or component type	Contactor	
Device short name	LC1D	
Contactor application	Motor control	
Contactor application	Resistive load	
Utilisation category	AC-1	
	AC-3 AC-4	
Poles description	3P	
Pole contact composition	3 NO	
[Ue] rated operational voltage	<= 690 V AC 25400 Hz for power circuit	
	<= 300 V DC 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	11 kW at 400 V AC 50/60 Hz AC-4	
	30 kW at 380400 V AC 50/60 Hz AC-3 37 kW at 500 V AC 50/60 Hz AC-3	
	37 kW at 660690 V AC 50/60 Hz AC-3	
	18.5 kW at 220230 V AC 50/60 Hz AC-3	
Motor power hp	40 hp at 460/480 V AC 50/60 Hz for 3 phases motors 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	
	20 hp at 200/208 V AC 50/60 Hz for 3 phases motors	
	20 hp at 230/240 V AC 50/60 Hz for 3 phases motors 50 hp at 575/600 V AC 50/60 Hz for 3 phases motors	
Control circuit type	DC standard	
[Uc] control circuit voltage	110 V DC	
Auxiliary contact composition	1 NO + 1 NC	
[Uimp] rated impulse withstand voltage	Conforming to IEC 60947	
Overvoltage category	III	
[lth] 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	
[lcw] 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	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	1.45 Mcycles 65 A AC-3 at Ue <= 440 V	

	1.4 Mcycles 80 A AC-1 at Ue <= 440 V
Power dissipation per pole	6.3 W AC-3 9.6 W AC-1
Protective cover	With
Mounting support	Plate Rail
Standards	UL 508 CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1
Product certifications	CCC CSA GOST UL
Connections - terminals	Control circuit: screw clamp terminals 2 cable(s) 12.5 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 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: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: solid - without cable end Power circuit: screw connection 2 cable(s) 125 mm² - cable stiffness: flexible - with cable end Power circuit: screw connection 2 cable(s) 125 mm² - cable stiffness: flexible - without cable end Power circuit: screw connection 1 cable(s) 125 mm² - cable stiffness: flexible - without cable end Power circuit: screw connection 1 cable(s) 135 mm² - cable stiffness: flexible - without cable end Power circuit: screw connection 1 cable(s) 135 mm² - cable stiffness: flexible - without cable end Power circuit: screw connection 1 cable(s) 135 mm² - cable stiffness: flexible - 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	1624 ms opening 42.557.5 ms closing
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	10 Mcycles
· · · · · · · · · · · · · · · · · · ·	

Complementary

Operating rate

Coil technology	Built-in bidirectional peak limiting diode suppressor	
Control circuit voltage limits	0.10.3 Uc drop-out at 60 °C, DC 0.751.25 Uc operational at 60 °C, DC	
Time constant	34 ms	
Inrush power in W	19 W at 20 °C	
Hold-in power consumption in W	7.4 W at 20 °C	
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)	

3600 cyc/h at <= 60 °C



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	-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	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	0.935 kg

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0501 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available

