LC1D128UD

TeSys D contactor - 4P(2 NO + 2 NC) - AC-1 - <= 440 V 25 A - 250 V DC coil





Main

Mani	
Range	TeSys
Product name	TeSys D
Product or component type	Contactor
Device short name	LC1D
Contactor application	Resistive load
Utilisation category	AC-1
Poles description	4P
Pole contact composition	2 NO + 2 NC
[Ue] rated operational voltage	<= 690 V AC 25400 Hz for power circuit <= 300 V DC for power circuit
[le] rated operational current	25 A (<= 60 °C) at <= 440 V AC AC-1 for power circuit
Control circuit type	DC standard
Control circuit voltage	250 V DC
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	25 A at <= 60 °C for power circuit 10 A at <= 60 °C for signalling circuit
Irms rated making capacity	250 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	250 A at 440 V for power circuit conforming to IEC 60947
[lcw] rated short-time withstand current	105 A <= 40 °C 10 s power circuit 210 A <= 40 °C 1 s power circuit 30 A <= 40 °C 10 min power circuit 61 A <= 40 °C 1 min power circuit 100 A 1 s signalling circuit 120 A 500 ms signalling circuit 140 A 100 ms signalling circuit
Associated fuse rating	25 A gG at <= 690 V coordination type 2 for power circuit 40 A gG at <= 690 V coordination type 1 for power circuit 10 A gG for signalling circuit conforming to IEC 60947-5-1
Average impedance	2.5 mOhm at 50 Hz - Ith 25 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	0.8 Mcycles 25 A AC-1 at Ue <= 440 V
Power dissipation per pole	1.56 W AC-1
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	BV
	CCC CSA
	DNV
	GL
	GOST
	RINA
	UL LROS
Connections - terminals	Control circuit : screw clamp terminals 2 cable(s)
	12.5 mm ² - cable stiffness: flexible - with cable
	end
	Power circuit: screw clamp terminals 1 cable(s) 14 mm ² - cable stiffness: flexible - with cable en
	Control circuit: screw clamp terminals 1 cable(s)
	14 mm ² - cable stiffness: flexible - without cable
	end Control circuit: screw clamp terminals 2 cable(s)
	14 mm ² - cable stiffness: flexible - without cable
	end
	Control circuit: screw clamp terminals 1 cable(s)
	14 mm² - cable stiffness: flexible - with cable en Control circuit: screw clamp terminals 1 cable(s)
	14 mm ² - cable stiffness: solid - without cable
	end
	Control circuit: screw clamp terminals 2 cable(s)
	14 mm ² - cable stiffness: solid - without cable
	end
	Power circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - without cable
	end
	Power circuit: screw clamp terminals 2 cable(s)
	14 mm ² - cable stiffness: flexible - without cable
	end
	Power circuit: screw clamp terminals 2 cable(s) 12.5 mm ² - cable stiffness: flexible - with cable
	end
	Power circuit : screw clamp terminals 1 cable(s)
	14 mm ² - cable stiffness: solid - without cable
	end
	Power circuit: screw clamp terminals 2 cable(s) 14 mm ² - cable stiffness: solid - without cable
	end
Tightening torque	Power circuit : 1.7 N.m - on screw clamp terminal
	- with screwdriver flat Ø 6 mm
	Power circuit: 1.7 N.m - on screw clamp terminal
	 with screwdriver Philips No 2 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
	terrimais - with screwarrier i fillips 140 2
Operating time	53.5572.45 ms closing 1624 ms opening
Operating time Safety reliability level	53.5572.45 ms closing 1624 ms opening B10d = 1369863 cycles contactor with nominal
	53.5572.45 ms closing 1624 ms opening B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1
	53.5572.45 ms closing 1624 ms opening B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with
	53.5572.45 ms closing 1624 ms opening B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1

Complementary

Coil technology	Built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.10.25 Uc at 60 °C drop-out 0.71.25 Uc at 60 °C operational
Time constant	28 ms
Inrush power in W	5.4 W at 20 °C
Hold-in power consumption in W	5.4 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)
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	-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	85 mm
Width	45 mm
Depth	99 mm
Product weight	0.525 kg

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS	Compliant - since 0702 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Need no specific recycling operations

