LC1DT32BL

TeSys D contactor - 4P(4 NO) - AC-1 - <= 440 V 32 A - 24 V DC low cons coil





Main

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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	4 NO
[Ue] rated operational voltage	<= 690 V AC 25400 Hz for power circuit <= 300 V DC for power circuit
[le] rated operational current	32 A (<= 60 °C) at <= 440 V AC AC-1 for power circuit
Control circuit type	DC low consumption
Control circuit voltage	24 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	32 A at <= 60 °C for power circuit 10 A at <= 60 °C for signalling circuit
Irms rated making capacity	300 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	300 A at 440 V for power circuit conforming to IEC 60947
[lcw] rated short-time withstand current	145 A <= 40 °C 10 s power circuit 240 A <= 40 °C 1 s power circuit 40 A <= 40 °C 10 min power circuit 84 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	35 A gG at <= 690 V coordination type 2 for power circuit 50 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 32 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 Mcycles 32 A AC-1 at Ue <= 440 V
Power dissipation per pole	2.5 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
	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 mm ² - cable stiffness: flexible - with cable end
	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: connector 1 cable(s) 2.510 mm ² - cable stiffness: flexible - without cable end
	Power circuit : connector 2 cable(s) 2.510 mm ² -
	cable stiffness: flexible - without cable end
	Power circuit: connector 1 cable(s) 2.510 mm ² - cable stiffness: flexible - with cable end
	Power circuit: connector 2 cable(s) 2.510 mm ² -
	cable stiffness: flexible - with cable end
	Power circuit: connector 1 cable(s) 2.516 mm ² -
	cable stiffness: solid - without cable end
	Power circuit: connector 2 cable(s) 2.516 mm ² - 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: 1.7 N.m - on connector - with
	screwdriver flat Ø 6 mm
	Power circuit : 1.7 N.m - on connector - with screwdriver Philips No 2
On a ratio a time a	•
Operating time	65.4588.55 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	30 Mcycles

Complementary

Coil technology	Built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.10.3 Uc at 60 °C drop-out 0.81.25 Uc at 60 °C operational
Time constant	40 ms
Inrush power in W	2.4 W at 20 °C
Hold-in power consumption in W	2.4 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 closed 15 Gn for 11 ms Shocks contactor open 8 Gn for 11 ms
height	91 mm
width	45 mm
depth	107 mm
product weight	0.425 kg

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0721 - 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

