LC1DT60AMD

TeSys D contactor - 4P(4 NO) - AC-1 - <= 440 V 60 A - 220 V DC standard coil





Main

IVIAIII	
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	60 A (<= 60 °C) at <= 440 V AC AC-1 for power circuit
Control circuit type	DC standard
[Uc] control circuit voltage	220 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	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	1.6 mOhm at 50 Hz - Ith 60 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	1.4 Mcycles 60 A AC-1 at Ue <= 440 V
Power dissipation per pole	5.8 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	BV CCC
	CSA
	DNV
	GL
	GOST
	LROS (Lloyds register of shipping) RINA
	UL
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 mm² - cable stiffness: solid - without cable
	end
	Power circuit: screw clamp terminal 1 cable(s)
	135 mm ² - cable stiffness: solid - without cable end
	Power circuit : screw clamp terminal 1 cable(s)
	135 mm ² - cable stiffness: flexible - without cable
	end
	Power circuit: screw clamp terminal 1 cable(s) 135 mm ² - cable stiffness: flexible - with cable
	end
	Power circuit: screw clamp terminal 2 cable(s)
	125 mm ² - cable stiffness: flexible - with cable
	end Power circuit : screw clamp terminal 2 cable(s)
	125 mm ² - cable stiffness: solid - without cable
	end
	Power circuit : screw clamp terminal 2 cable(s)
	125 mm² - cable stiffness: flexible - without cable end
Tightening torque	Control circuit : 1.7 N.m - on screw clamp
rigitteiling torque	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 screw clamp terminals - cable 2535 mm ² hexagonal 4 mm
	Power circuit: 5 N.m - on screw clamp terminals -
	cable 125 mm² hexagonal 4 mm
Operating time	1624 ms opening 42.557.5 ms closing
Operating time Safety reliability level	42.557.5 ms closing B10d = 1369863 cycles contactor with nominal
· ·	42.557.5 ms closing B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1
· ·	42.557.5 ms closing B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with
Safety reliability level	42.557.5 ms closing 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
· ·	42.557.5 ms closing B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with

Complementary

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)
Insulation resistance	> 10 MOhm for signalling circuit

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	70 mm
depth	120 mm
product weight	1.165 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

