## Product data sheet Characteristics

### LC1DT25G7

# TeSys D contactor - 4P(4 NO) - AC-1 - <= 440 V 25 A - 120 V AC coil



Main	
Range of product	TeSys D
Product or component type	Contactor
Device short name	LC1D
Contactor application	Resistive load
Utilisation category	AC-1
Poles description	4P
Power pole contact composition	4 NO
[Ue] rated operational voltage	<= 690 V DC for power circuit <= 690 V AC 25400 Hz for power circuit
[le] rated operational current	25 A (<= 60 $^{\circ}$ C) at <= 440 V AC AC-1 for power circuit
Control circuit type	AC 50/60 Hz
Control circuit voltage	120 V AC 50/60 Hz
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 ca- pacity	250 A at 440 V for power circuit conforming to IEC 60947 250 A DC for signalling circuit conforming to IEC 60947-5-1 140 A AC 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	210 A <= 40 °C 1 s power circuit 105 A <= 40 °C 10 s power circuit 61 A <= 40 °C 1 min power circuit 30 A <= 40 °C 10 min power circuit 140 A 100 ms signalling circuit 120 A 500 ms signalling circuit 100 A 1 s 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 signalling circuit certifications UL 600 V for signalling circuit certifications CSA 690 V for signalling circuit conforming to IEC 60947-1 600 V for power circuit certifications UL 600 V for power circuit certifications CSA 690 V for power circuit conforming to IEC 60947-4-1
Electrical durability	0.8 Mcycles 25 A AC-1 at Ue <= 440 V
Power dissipation per pole	1.56 W AC-1
Safety cover	With
Mounting support	Plate Rail

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Standards EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 CSA C22.2 n°14  Product certifications BV CCC CSA DNV	
CCC CSA	
GL GOST RINA UL LROS	
Connections - terminals  Power circuit: screw clamp terminals 2 cable mm² - cable stiffness: solid - without cable of Power circuit: screw clamp terminals 1 cable mm² - cable stiffness: solid - without cable of Power circuit: screw clamp terminals 2 cable 12.5 mm² - cable stiffness: flexible - with cable of Power circuit: screw clamp terminals 1 cable mm² - cable stiffness: flexible - with cable of Power circuit: screw clamp terminals 2 cable mm² - cable stiffness: flexible - without cable Power circuit: screw clamp terminals 1 cable mm² - cable stiffness: flexible - without cable Control circuit: screw clamp terminals 2 cable 14 mm² - cable stiffness: solid - without cable Control circuit: screw clamp terminals 1 cable 14 mm² - cable stiffness: flexible - with cable control circuit: screw clamp terminals 2 cable 12.5 mm² - cable stiffness: flexible - with cable control circuit: screw clamp terminals 1 cable 14 mm² - cable stiffness: flexible - with cable control circuit: screw clamp terminals 2 cable 14 mm² - cable stiffness: flexible - without cable control circuit: screw clamp terminals 1 cable 14 mm² - cable stiffness: flexible - without cable control circuit: screw clamp terminals 1 cable 14 mm² - cable stiffness: flexible - without cable control circuit: screw clamp terminals 1 cable 14 mm² - cable stiffness: flexible - without cable control circuit: screw clamp terminals 1 cable 14 mm² - cable stiffness: flexible - without cable cable stiffness: flexible - without cable control circuit: screw clamp terminals 1 cable 14 mm² - cable stiffness: flexible - without cable cable stiffness: flexible - without cable cable stiffness: flexible - without cable cable cable stiffness: flexible - without cable	end e(s) 14 end e(s) 14 end e(s) 14 nd e(s) 14 e end e(s) 24 e end e(s) 34 e end e(s) 44 e end e(s) 64 e end e(s) 6
Tightening torque  Power circuit: 1.7 N.m - on screw clamp ten with screwdriver Philips No 2  Power circuit: 1.7 N.m - on screw clamp ten with screwdriver flat Ø 6 mm  Control circuit: 1.7 N.m - on screw clamp ten with screwdriver Philips No 2	minals -
Control circuit: 1.7 $\dot{N}$ m - on screw clamp te with screwdriver flat $\varnothing$ 6 mm	rminals -
Control circuit: 1.7 N.m - on screw clamp te	rminals -
Control circuit: 1.7 N.m - on screw clamp te with screwdriver flat Ø 6 mm  Operating time 1222 ms closing	chanical
Control circuit: 1.7 N.m - on screw clamp te with screwdriver flat Ø 6 mm  Operating time 1222 ms closing 419 ms opening  Safety reliability level B10d = 20000000 cycles contactor with meload conforming to EN/ISO 13849-1 B10d = 1369863 cycles contactor with nominating to the second conformation of the second co	chanical

#### Complementary

Without built-in suppressor module
0.851.1 Uc at 60 °C operational 60 Hz 0.81.1 Uc at 60 °C operational 50 Hz 0.30.6 Uc at 60 °C drop-out 50/60 Hz
70 VA at 20 °C (cos φ 0.75) 50 Hz 70 VA at 20 °C (cos φ 0.75) 60 Hz
7 VA at 20 °C (cos φ 0.3) 50 Hz 7.5 VA at 20 °C (cos φ 0.3) 60 Hz
23 W at 50/60 Hz
Type mirror contact (1 NC) conforming to IEC 60947-4-1 Type mechanically linked (1 NO + 1 NC) conforming to IEC 60947-5-1
25400 Hz
5 mA for signalling circuit

Minimum switching voltage	17 V for signalling circuit
Non-overlap time	<ul><li>1.5 ms on energisation (between NC and NO contact)</li><li>1.5 ms on de-energisation (between NC and NO contact)</li></ul>
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	Shocks contactor closed 15 Gn for 11 ms Shocks contactor open 10 Gn for 11 ms Vibrations contactor closed 4 Gn, 5300 Hz Vibrations contactor open 2 Gn, 5300 Hz
Height	85 mm
Width	45 mm
Depth	92 mm
Product weight	0.365 kg

#### Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS	Compliant - since 0702 - Schneider Electric declaration of conformity download declaration of conformity
Product environmental profile	Available
Product end of life instruction	Need no specific recycling operations

