Product datasheet Characteristics

LC1DT25BD

TeSys D contactor - 4P(4 NO) - AC-1 - <= 440 V 25 A - 24 V DC standard coil



Main

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Range of product	TeSys D	
Range	TeSys	
Product name	TeSys D	
Product or component type	Contactor	
Device short name	LC1D	oilit
Contactor application	Resistive load	relia de
Utilisation category	AC-1	
Poles description	4P	itabi
Pole contact composition	4 NO	
[Ue] rated operational voltage	<= 300 V DC for power circuit <= 690 V AC 25400 Hz for power circuit	be used for determining suitability or reliability of these products for
[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	24 V DC	
Auxiliary contact composition	1 NO + 1 NC	
[Uimp] rated impulse withstand voltage	Conforming to IEC 60947	- June
Overvoltage category	III	
[Ith] conventional free air thermal current	25 A at <= 60 °C for power circuit 10 A at <= 60 °C for signalling circuit	Substiff
Irms rated making capacity	140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1 250 A at 440 V for power circuit conforming to IEC 60947	intended as
Rated breaking capacity	250 A at 440 V for power circuit conforming to IEC 60947	
[lcw] rated short-time withstand current	30 A <= 40 °C 10 min power circuit 100 A 1 s signalling circuit 105 A <= 40 °C 10 s power circuit 140 A 100 ms signalling circuit 61 A <= 40 °C 1 min power circuit 120 A 500 ms signalling circuit 210 A <= 40 °C 1 s power circuit	Disclaimer: This documentation is not intended as a substitute for and
Associated fuse rating	25 A gG at <= 690 V coordination type 2 for power circuit	Disclai

	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 CSA 600 V for power circuit certifications UL 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
Protective cover	With
Mounting support	Rail Plate
Standards	CSA C22.2 No 14 UL 508 EN 60947-4-1 IEC 60947-4-1 EN 60947-5-1
Product certifications	GL RINA UL CSA GOST DNV LROS CCC BV
Connections - terminals	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: flexible - without cable end Power circuit: screw clamp terminals 2 cable(s) 12.5 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: solid - 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: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: solid - without cable end Power circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: solid - without cable end Power circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - 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 mm² - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 2 cable(s) 14 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 Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm
Operating time	1624 ms opening 53.5572.45 ms closing
Safety reliability level	B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1 B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1
Mechanical durability	30 Mcycles
Operating rate	3600 cyc/h at <= 60 °C
Complementary	
Coil technology	Built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.10.25 Uc drop-out at 60 °C, DC

Coil technology	Built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.10.25 Uc drop-out at 60 °C, DC 0.71.25 Uc operational at 60 °C, DC
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 mirror contact (1 NC) conforming to IEC 60947-4-1

Type mechanically linked (1 NO + 1 NC) conforming to IEC 60947-5-1

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
Contact compatibility	M7
Compatibility code	LC1D

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 Shocks contactor closed 15 Gn for 11 ms Vibrations contactor closed 4 Gn, 5300 Hz Shocks contactor open 10 Gn for 11 ms
Height	85 mm
Width	45 mm
Depth	99 mm
Product weight	0.365 kg

Offer Sustainability

Sustainable offer status	Green Premium product	
RoHS (date code: YYWW)	Compliant - since 0702 - Schneider Electric declaration of conformity	
	Schneider Electric declaration of conformity	
REACh	Reference not containing SVHC above the threshold	
	Reference not containing SVHC above the threshold	
Product environmental profile	Available	
	🚰 End of life manual	
Product end of life instructions	Available	

Contractual warranty

Contractadi Warranty		
Warranty period	18 months	