



Main

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	≤ 300 V DC for power circuit ≤ 690 V AC 25...400 Hz for power circuit
[Ie] rated operational current	40 A (≤ 60 °C) at ≤ 440 V AC AC-1 for power circuit
Control circuit type	AC 50/60 Hz
[Uc] control circuit voltage	110 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
[Ith] conventional free air thermal current	40 A at ≤ 60 °C for power circuit 10 A at ≤ 60 °C for signalling circuit
Rms rated making capacity	450 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	450 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	120 A ≤ 40 °C 1 min power circuit 240 A ≤ 40 °C 10 s power circuit 380 A ≤ 40 °C 1 s power circuit 50 A ≤ 40 °C 10 min power circuit 100 A 1 s signalling circuit 120 A 500 ms signalling circuit 140 A 100 ms signalling circuit
Associated fuse rating	40 A gG at ≤ 690 V coordination type 2 for power circuit 63 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 mOhm at 50 Hz - Ith 40 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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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 40 A AC-1 at $U_e \leq 440$ V
Power dissipation per pole	3.2 W AC-1
Protective cover	With
Mounting support	Plate Rail
Standards	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508
Product certifications	DNV CCC BV LROS (Lloyds register of shipping) UL GOST RINA CSA GL
Connections - terminals	Control circuit : screw clamp terminals 2 cable(s) 1...2.5 mm ² - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 1 cable(s) 1...4 mm ² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 2 cable(s) 1...4 mm ² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 1 cable(s) 1...4 mm ² - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 1 cable(s) 1...4 mm ² - cable stiffness: solid - without cable end Control circuit : screw clamp terminals 2 cable(s) 1...4 mm ² - cable stiffness: solid - without cable end Power circuit : connector 1 cable(s) 2.5...10 mm ² - cable stiffness: flexible - without cable end Power circuit : connector 2 cable(s) 2.5...10 mm ² - cable stiffness: flexible - without cable end Power circuit : connector 1 cable(s) 2.5...10 mm ² - cable stiffness: flexible - with cable end Power circuit : connector 2 cable(s) 2.5...10 mm ² - cable stiffness: flexible - with cable end Power circuit : connector 1 cable(s) 2.5...16 mm ² - cable stiffness: solid - without cable end Power circuit : connector 2 cable(s) 2.5...16 mm ² - cable stiffness: solid - without cable end
Tightening torque	Control circuit : 1.7 N.m - on screw clamp terminals - with screwdriver flat \varnothing 6 mm Control circuit : 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit : 1.8 N.m - on connector - with screwdriver flat \varnothing 6 mm Power circuit : 1.8 N.m - on connector - with screwdriver Philips No 2
Operating time	4...19 ms opening 12...22 ms closing
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	15 Mcycles
Operating rate	3600 cyc/h at ≤ 60 °C

Complementary

Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.3...0.6 U_c drop-out at 60 °C, AC 50/60 Hz 0.8...1.1 U_c operational at 60 °C, AC 50 Hz 0.85...1.1 U_c operational at 60 °C, AC 60 Hz
Inrush power in VA	70 VA at 20 °C ($\cos \phi$ 0.75) 60 Hz 70 VA at 20 °C ($\cos \phi$ 0.75) 50 Hz
Hold-in power consumption in VA	7.5 VA at 20 °C ($\cos \phi$ 0.3) 60 Hz 7 VA at 20 °C ($\cos \phi$ 0.3) 50 Hz
Heat dissipation	2...3 W at 50/60 Hz
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	25...400 Hz
Minimum switching current	5 mA for signalling circuit
Minimum switching voltage	17 V for signalling circuit
Non-overlap time	1.5 ms on energisation between NC and NO contact

1.5 ms on de-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 -5...60 °C

Ambient air temperature for storage -60...80 °C

Permissible ambient air temperature around the device -40...70 °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, 5...300 Hz
Vibrations contactor closed 4 Gn, 5...300 Hz
Shocks contactor closed 15 Gn for 11 ms
Shocks contactor open 8 Gn for 11 ms

Height 105 mm

Width 45 mm

Depth 99 mm

Product weight 0.425 kg

Contractual warranty

Warranty period 18 months

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