



Main

Range of product	TeSys D
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	≤ 460 V DC for power circuit ≤ 1000 V AC 25...400 Hz for power circuit
[Ie] rated operational current	200 A (≤ 60 °C) at ≤ 440 V AC AC-1 for power circuit
Control circuit type	AC 50 Hz
[Uc] control circuit voltage	24 V AC 50 Hz
[Uimp] rated impulse withstand voltage	Conforming to IEC 60947
Overtoltage category	III
[Ith] conventional free air thermal current	200 A at ≤ 60 °C for power circuit
Irms rated making capacity	1260 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	1100 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	1100 A ≤ 40 °C 1 s power circuit 250 A ≤ 40 °C 10 min power circuit 550 A ≤ 40 °C 1 min power circuit 950 A ≤ 40 °C 10 s power circuit
Associated fuse rating	200 A gG at ≤ 690 V coordination type 2 for power circuit 250 A gG at ≤ 690 V coordination type 1 for power circuit
Average impedance	0.6 mOhm at 50 Hz - Ith 200 A for power circuit
[Ui] rated insulation voltage	1000 V for power circuit conforming to IEC 60947-4-1 600 V for power circuit certifications CSA 600 V for power circuit certifications UL
Electrical durability	0.8 Mcycles 200 A AC-1 at Ue ≤ 440 V
Power dissipation per pole	24 W AC-1
Protective cover	With
Mounting support	Rail Plate

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

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	BV RINA CSA DNV CCC GL GOST UL LROS (Lloyds register of shipping)
Connections - terminals	Power circuit : bars 15 x 25 mm Control circuit : lugs-ring terminals - external diameter: 8 mm Power circuit : lugs-ring terminals - external diameter: 25 mm
Tightening torque	Control circuit : 1.2 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm-screw : M3.5 Control circuit : 1.2 N.m - on lugs-ring terminals - with screwdriver Philips No 2 screw : M3.5 Power circuit : 12 N.m - on lugs-ring terminals hexagonal 13 mm screw : M8 Power circuit : 12 N.m - on bars hexagonal 13 mm screw : M8
Operating time	6...20 ms opening 20...50 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	8 Mcycles
Operating rate	2400 cyc/h at ≤ 60 °C

Complementary

Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.3...0.6 Uc drop-out at 55 °C, AC 50 Hz 0.85...1.1 Uc operational at 55 °C, AC 50 Hz
Inrush power in VA	300 VA at 20 °C (cos φ 0.8) 50 Hz
Hold-in power consumption in VA	22 VA at 20 °C (cos φ 0.3) 50 Hz
Heat dissipation	3...8 W at 50 Hz
Contact compatibility	M14
Compatibility code	LC1D

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
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 6 Gn for 11 ms
Height	158 mm
Width	155 mm
Depth	115 mm
Product weight	2.86 kg

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0742 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available Product Environmental Profile
Product end of life instructions	Available End Of Life Information

Contractual warranty

Warranty period	18 months
-----------------	-----------

Product Life Status : **Commercialised**