

LC1D1150046MD

TeSys D contactor - 4P(4 NO) - AC-1 - ≤ 440 V 200 A - 220 V DC 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 ≤ 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	DC standard
Control circuit voltage	220 V DC
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947
Overvoltage 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	250 A ≤ 40 °C 10 min power circuit 550 A ≤ 40 °C 1 min power circuit 950 A ≤ 40 °C 10 s power circuit 1100 A ≤ 40 °C 1 s power circuit
Associated fuse rating	250 A gG at ≤ 690 V coordination type 1 for power circuit 200 A gG at ≤ 690 V coordination type 2 for power circuit
Average impedance	0.6 mOhm at 50 Hz - Ith 200 A for power circuit
[Ui] rated insulation voltage	600 V for power circuit certifications CSA 600 V for power circuit certifications UL 1000 V for power circuit conforming to IEC 60947-4-1
Power dissipation per pole	24 W AC-1
Safety cover	Without
Mounting support	Plate Rail
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 GL GOST RINA UL LROS

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Connections - terminals	Control circuit: lugs-ring terminals - external diameter: 8 mm Power circuit: lugs-ring terminals - external diameter: 25 mm Power circuit: bars 15 x 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	20...35 ms closing 40...75 ms opening
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 (millions)	8 Mcycles
Operating rate	1200 cyc/h at ≤ 60 °C

Complementary

Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.75...1.2 Uc at 55 °C operational 0.15...0.4 Uc at 55 °C drop-out
Time constant	25 ms
Inrush power in W	270...365 W at 20 °C
Hold-in power consumption in W	2.4...5.1 W at 20 °C

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