

LC1D1150046F7

TeSys D contactor - 4P(4 NO) - AC-1 - <= 440 V 200 A - 110 V AC coil



Main

Commercial Status	Commercialised
Range of product	TeSys D
Product or component type	Contacteur
Device short name	LC1D
Contacteur application	Resistive load
Utilisation category	AC-1
Poles description	4P
Power 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 50/60 Hz
Control circuit voltage	110 V AC 50/60 Hz
[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	1100 A <= 40 °C 1 s power circuit 950 A <= 40 °C 10 s power circuit 550 A <= 40 °C 1 min power circuit 250 A <= 40 °C 10 min 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	0.60 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 UL 600 V for power circuit certifications CSA
Electrical durability	0.8 Mcycles 200 A AC-1 at Ue <= 440 V
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 No 14

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Product certifications	BV CCC CSA DNV GL GOST RINA UL LROS
Connections - terminals	Power circuit: bars 1 5 x 25 mm Power circuit: lugs-ring terminals - external diameter: 25 mm Control circuit: lugs-ring terminals - external diameter: 8 mm
Tightening torque	Power circuit: 12 N.m - on bars hexagonal 13 mm screw : M8 Power circuit: 12 N.m - on lugs-ring terminals hexagonal 13 mm screw : M8 Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver Philips No 2 screw : M3.5 Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm screw : M3.5
Operating time	20...50 ms closing 6...20 ms opening
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	8 Mcycles
Operating rate	2400 cyc/h at <= 60 °C

Complementary

Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.8...1.15 Uc at 55 °C operational 50/60 Hz 0.3...0.5 Uc at 55 °C drop-out 50/60 Hz
Inrush power in VA	280...350 VA at 20 °C (cos φ 0.8) 50 Hz 280...350 VA at 20 °C (cos φ 0.8) 60 Hz
Hold-in power consumption in VA	2...18 VA at 20 °C (cos φ 0.3) 50 Hz 2...18 VA at 20 °C (cos φ 0.3) 60 Hz
Heat dissipation	3...8 W at 50/60 Hz

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	Shocks contactor open 6 Gn for 11 ms Shocks contactor closed 15 Gn for 11 ms Vibrations contactor closed 4 Gn, 5...300 Hz Vibrations contactor open 2 Gn, 5...300 Hz
Height	158 mm
Width	155 mm
Depth	115 mm
Product weight	2.86 kg

RoHS compliance

RoHS EUR status	Compliant
RoHS EUR conformity date(YYWW)	0742

Contractual warranty

Period	18 months
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