

LC1D40008G6

TeSys D contactor - 4P(2 NO + 2 NC) - AC-1 -
<= 440 V 60 A - 120 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
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	60 A (<= 140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit
Control circuit type	AC 60 Hz
Control circuit voltage	120 V AC 60 Hz
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947
Overtoltage category	III
[Ith] conventional free air thermal current	60 A at <= 140 °F (60 °C) for power circuit
Irms rated making capacity	800 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	800 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	165 A <= 104 °F (40 °C) 1 min power circuit 72 A <= 104 °F (40 °C) 10 min power circuit 720 A <= 104 °F (40 °C) 1 s power circuit 320 A <= 104 °F (40 °C) 10 s power circuit
Associated fuse rating	80 A gG at <= 690 V coordination type 2 for power circuit 80 A gG at <= 690 V coordination type 1 for power circuit
Average impedance	1.50 mOhm at 50 Hz - Ith 60 A for power circuit
[Ui] rated insulation voltage	600 V for power circuit certifications UL 600 V for power circuit certifications CSA 690 V for power circuit conforming to IEC 60947-4-1
Electrical durability	1.4 Mcycles 60 A AC-1 at Ue <= 440 V
Power dissipation per pole	5.4 W AC-1
Protective 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
Product certifications	BV CCC CSA DNV GL GOST RINA UL LROS

Connections - terminals	<p>Power circuit: screw clamp terminals 2 cable(s) 0...0.04 in² (1...25 mm²) - cable stiffness: solid - without cable end</p> <p>Power circuit: screw clamp terminals 1 cable(s) 0...0.05 in² (1...35 mm²) - cable stiffness: solid - without cable end</p> <p>Power circuit: screw clamp terminals 2 cable(s) 0...0.04 in² (1...25 mm²) - cable stiffness: flexible - with cable end</p> <p>Power circuit: screw clamp terminals 1 cable(s) 0...0.05 in² (1...35 mm²) - cable stiffness: flexible - with cable end</p> <p>Power circuit: screw clamp terminals 2 cable(s) 0...0.04 in² (1...25 mm²) - cable stiffness: flexible - without cable end</p> <p>Power circuit: screw clamp terminals 1 cable(s) 0...0.05 in² (1...35 mm²) - cable stiffness: flexible - without cable end</p> <p>Control circuit: screw clamp terminals 2 cable(s) 0...0.01 in² (1...4 mm²) - cable stiffness: solid - without cable end</p> <p>Control circuit: screw clamp terminals 1 cable(s) 0...0.01 in² (1...4 mm²) - cable stiffness: solid - without cable end</p> <p>Control circuit: screw clamp terminals 2 cable(s) 0...0 in² (1...2.5 mm²) - cable stiffness: flexible - with cable end</p> <p>Control circuit: screw clamp terminals 1 cable(s) 0...0.01 in² (1...4 mm²) - cable stiffness: flexible - with cable end</p> <p>Control circuit: screw clamp terminals 2 cable(s) 0...0.01 in² (1...4 mm²) - cable stiffness: flexible - without cable end</p> <p>Control circuit: screw clamp terminals 1 cable(s) 0...0.01 in² (1...4 mm²) - cable stiffness: flexible - without cable end</p>
Tightening torque	<p>Power circuit: 70.8 lbf.in (8 N.m) - on screw clamp terminals - cable 0.04...0.05 in² (25...35 mm²) hexagonal 0.16 in (4 mm)</p> <p>Power circuit: 44.25 lbf.in (5 N.m) - on screw clamp terminals - cable ≤ 0.04 in² (25 mm²) hexagonal 0.16 in (4 mm)</p> <p>Control circuit: 15.04 lbf.in (1.7 N.m) - on screw clamp terminals - with screwdriver Philips No 2</p> <p>Control circuit: 15.04 lbf.in (1.7 N.m) - on screw clamp terminals - with screwdriver flat Ø 6 mm</p>
Operating time	<p>12...26 ms closing</p> <p>4...19 ms opening</p>
Safety reliability level	<p>B10d = 2000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1</p> <p>B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1</p>
Mechanical durability	6 Mcycles
Operating rate	3600 cyc/h at ≤ 140 °F (60 °C)

Complementary

Coil technology	Without built-in suppressor module
Control circuit voltage limits	<p>0.3...0.6 Uc at 140 °F (60 °C) drop-out 60 Hz</p> <p>0.85...1.1 Uc at 140 °F (60 °C) operational 60 Hz</p>
Inrush power in VA	140 VA at 68 °F (20 °C) (cos φ 0.75) 60 Hz
Hold-in power consumption in VA	13 VA at 68 °F (20 °C) (cos φ 0.3) 60 Hz
Heat dissipation	4...5 W at 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	23...140 °F (-5...60 °C)
Ambient air temperature for storage	-76...176 °F (-60...80 °C)
Permissible ambient air temperature around the device	-40...158 °F (-40...70 °C) at Uc

Operating altitude	9842.52 ft (3000 m) without derating in temperature
Fire resistance	1562 °F (850 °C) conforming to IEC 60695-2-1
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Shocks contactor closed 15 Gn for 11 ms Shocks contactor open 10 Gn for 11 ms Vibrations contactor closed 4 Gn, 5...300 Hz Vibrations contactor open 2 Gn, 5...300 Hz
Height	5 in (127 mm)
Width	3.35 in (85 mm)
Depth	4.92 in (125 mm)
Product weight	3.17 lb(US) (1.44 kg)

Ordering and shipping details

Category	22345 - CTR,D-LINE,OPEN,NONREV-NEW
Discount Schedule	I12
GTIN	00785901070306
Nbr. of units in pkg.	1
Package weight(Lbs)	3.15
Product availability	Stock - Normally stocked in distribution facility
Returnability	Y
Country of origin	CZ

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS	Compliant - since 0707 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available Download Product Environmental
Product end of life instructions	Need no specific recycling operations

Contractual warranty

Period	18 months
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