Product data sheet Characteristics

LC1D25G7

TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 25 A - 120 V AC coil

Product availability: Stock - Normally stocked in distribution facility







Range	TeSys	prod
Product name	TeSys D	hese
Product or component type	Contactor	v of t
Device short name	LC1D	iabilit
Contactor application	Motor control Resistive load	ity or re
Utilisation category	AC-1 AC-3 AC-4	
Poles description	3P	 etern
Power pole contact composition	3 NO	for d
System Voltage	<= 300 V DC power circuit <= 690 V AC 25400 Hz power circuit	l be lised
[le] rated operational current	25 A (<= 140 °F (60 °C)) at <= 440 V AC AC-3 power circuit 40 A (<= 140 °F (60 °C)) at <= 440 V AC AC-1 power circuit	lis not to
Motor power kW	11 kW at 380400 V AC 50/60 Hz AC-3 15 kW at 500 V AC 50/60 Hz AC-3 15 kW at 660690 V AC 50/60 Hz AC-3 5.5 kW at 220230 V AC 50/60 Hz AC-3 11 kW at 415440 V AC 50/60 Hz AC-3 5.5 kW at 400 V AC 50/60 Hz AC-4	as a substitute for and
Motor power HP (UL / CSA)	2 hp at 115 V AC 50/60 Hz 1 phase motors 7.5 hp at 200/208 V AC 50/60 Hz 3 phases motors 3 hp at 230/240 V AC 50/60 Hz 1 phase motors 7.5 hp at 230/240 V AC 50/60 Hz 3 phases motors 15 hp at 460/480 V AC 50/60 Hz 3 phases motors 20 hp at 575/600 V AC 50/60 Hz 3 phases motors	Sisclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these prod
Control circuit type	AC 50/60 Hz	— unoop
[Uc] control circuit voltage	120 V AC 50/60 Hz	— SidI
Auxiliary contact composition	1 NO + 1 NC	
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947	
		-c

Overvoltage category	
[Ith] conventional free air thermal	40 A at <= 140 °F (60 °C) power circuit
current	10 A at <= 140 °F (60 °C) signalling circuit
Irms rated making capacity	450 A at 440 V power circuit conforming to IEC 60947 140 A AC signalling circuit conforming to IEC 60947-5-1 250 A DC signalling circuit conforming to IEC 60947-5-1
Rated breaking capacity	450 A at 440 V power circuit conforming to IEC 60947
[lcw] rated short-time withstand current	120 A <= 104 °F (40 °C) 1 min power circuit 240 A <= 104 °F (40 °C) 10 s power circuit 380 A <= 104 °F (40 °C) 1 s power circuit 50 A <= 104 °F (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 power circuit 63 A gG at <= 690 V coordination type 1 power circuit 10 A gG signalling circuit conforming to IEC 60947-5-1
Average impedance	2 mOhm at 50 Hz - Ith 40 A power circuit
[Ui] rated insulation voltage	600 V power circuit certifications CSA 600 V power circuit certifications UL 690 V power circuit conforming to IEC 60947-4-1 690 V signalling circuit conforming to IEC 60947-1 600 V signalling circuit certifications CSA 600 V signalling circuit certifications UL
Electrical durability	1.65 Mcycles 25 A AC-3 at Ue <= 440 V 1.4 Mcycles 40 A AC-1 at Ue <= 440 V
Power dissipation per pole	3.2 W AC-1 1.25 W AC-3
Safety 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	BV CCC CSA DNV GL GOST LROS (Lloyds register of shipping) RINA UL
Connections - terminals	Control circuit: screw clamp terminals 2 cable(s) 00 in² (12.5 mm²) - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 1 cable(s) 00.02 in² (1.510 mm²) - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 1 cable(s) 00.01 in² (14 mm²) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 00.01 in² (14 mm²) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 00.01 in² (14 mm²) - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 00.01 in² (14 mm²) - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 00.01 in² (14 mm²) - cable stiffness: solid - without cable end Power circuit: screw clamp terminals 1 cable(s) 00.02 in² (2.510 mm²) - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 2 cable(s) 00.02 in² (2.510 mm²) - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 1 cable(s) 00.02 in² (110 mm²) - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 2 cable(s) 00.01 in² (110 mm²) - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 2 cable(s) 00.01 in² (110 mm²) - cable stiffness: flexible - with cable end

	Power circuit: screw clamp terminals 2 cable(s) 00.02 in² (2.510 mm²) - cable stiffness: solid - without cable end
Tightening torque	Control circuit: 15.04 lbf.in (1.7 N.m) - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 15.04 lbf.in (1.7 N.m) - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 22.12 lbf.in (2.5 N.m) - on screw clamp terminals - with screwdriver flat Ø 6 mm Power circuit: 22.12 lbf.in (2.5 N.m) - on screw clamp terminals - with screwdriver Philips No 2
Operating time	419 ms opening 1222 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 cvc/h at <= 140 °F (60 °C)

Complementary

Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.30.6 Uc drop-out at 140 °F (60 °C), AC 50/60 Hz 0.81.1 Uc operational at 140 °F (60 °C), AC 50 Hz 0.851.1 Uc operational at 140 °F (60 °C), AC 60 Hz
Inrush power in VA	70 VA at 68 °F (20 °C) (cos φ 0.75) 60 Hz 70 VA at 68 °F (20 °C) (cos φ 0.75) 50 Hz
Hold-in power consumption in VA	7.5 VA at 68 °F (20 °C) (cos φ 0.3) 60 Hz 7 VA at 68 °F (20 °C) (cos φ 0.3) 50 Hz
Heat dissipation	23 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	25400 Hz
Minimum switching current	5 mA signalling circuit
Minimum switching voltage	17 V 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 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	23140 °F (-560 °C)
Ambient air temperature for storage	-76176 °F (-6080 °C)
Permissible ambient air temperature around the device	-40158 °F (-4070 °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	Vibrations contactor open 2 Gn, 5300 Hz Vibrations contactor closed 4 Gn, 5300 Hz Shocks contactor closed 15 Gn for 11 ms Shocks contactor open 8 Gn for 11 ms
Height	3.35 in (85 mm)
Width	1.77 in (45 mm)
Depth	3.62 in (92 mm)
Product weight	0.82 lb(US) (0.37 kg)

Ordering and shipping details

Category	22345 - CTR,D-LINE,OPEN,NONREV-NEW
Discount Schedule	112
GTIN	00785901207153
Nbr. of units in pkg.	1



Package weight(Lbs)	0.9200000000000004
Returnability	Υ
Country of origin	ID
Offer Sustainability	
Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0627 - Schneider Electric declaration of conformity
	Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available
California proposition 65	WARNING: This product can expose you to chemicals including:
Substance 1	Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer.
More information	For more information go to www.p65warnings.ca.gov

Contractual warranty

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Warranty period		18 months