### Product data sheet Characteristics

## LC1D115G7

# TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 115 A - 120 V AC 50/60 Hz coil

Product availability: Stock - Normally stocked in distribution facility







Range	TeSys	7
Product name	TeSys D	
Product or component type	Contactor	- <del>-</del>
Device short name	LC1D	<u></u>
Contactor application	Motor control Resistive load	- -
Utilisation category	AC-1 AC-3 AC-4	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
Poles description	3P	- 5
Power pole contact composition	3 NO	
System Voltage	<= 300 V DC power circuit <= 1000 V AC 25400 Hz power circuit	
[le] rated operational current	200 A (<= 140 °F (60 °C)) at <= 440 V AC AC-1 power circuit 115 A (<= 140 °F (60 °C)) at <= 440 V AC AC-3 power circuit	. <u>.</u> 
Motor power kW	55 kW at 380400 V AC 50/60 Hz AC-3 75 kW at 500 V AC 50/60 Hz AC-3 80 kW at 660690 V AC 50/60 Hz AC-3 30 kW at 220230 V AC 50/60 Hz AC-3 59 kW at 415440 V AC 50/60 Hz AC-3 65 kW at 1000 V AC 50/60 Hz AC-3 18.5 kW at 400 V AC 50/60 Hz AC-4	And the state of t
Motor power HP (UL / CSA)	30 hp at 200/208 V AC 50/60 Hz 3 phases motors 40 hp at 230/240 V AC 50/60 Hz 3 phases motors 75 hp at 460/480 V AC 50/60 Hz 3 phases motors 100 hp at 575/600 V AC 50/60 Hz 3 phases motors	
Control circuit type	AC 50/60 Hz	Š
[Uc] control circuit voltage	120 V AC 50/60 Hz	7
Auxiliary contact composition	1 NO + 1 NC	
[Uimp] rated impulse withstand voltage	Conforming to IEC 60947	

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Overvoltage category	 
[lth] conventional free air thermal current	200 A at <= 140 °F (60 °C) power circuit
Irms rated making capacity	1260 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	1100 A at 440 V power circuit conforming to IEC 60947
[lcw] rated short-time withstand current	1100 A <= 104 °F (40 °C) 1 s power circuit 100 A 1 s signalling circuit 120 A 500 ms signalling circuit 140 A 100 ms signalling circuit 250 A <= 104 °F (40 °C) 10 min power circuit 550 A <= 104 °F (40 °C) 1 min power circuit 950 A <= 104 °F (40 °C) 10 s power circuit
Associated fuse rating	200 A gG at <= 690 V coordination type 2 power circuit 250 A gG at <= 690 V coordination type 1 power circuit 10 A gG signalling circuit
Average impedance	0.6 mOhm at 50 Hz - Ith 200 A power circuit
[Ui] rated insulation voltage	1000 V power circuit conforming to IEC 60947-4-1 600 V power circuit certifications CSA 600 V power circuit certifications UL 690 V signalling circuit conforming to IEC 60947-1 600 V signalling circuit certifications CSA 600 V signalling circuit certifications UL
Electrical durability	0.8 Mcycles 200 A AC-1 at Ue <= 440 V 0.95 Mcycles 115 A AC-3 at Ue <= 440 V
Power dissipation per pole	24 W AC-1 7.9 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 - without cable end Control circuit: screw clamp terminals 2 cable(s) 00 in² (12.5 mm²) - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 00 in² (12.5 mm²) - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 1 cable(s) 00 in² (12.5 mm²) - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 00 in² (12.5 mm²) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 00 in² (12.5 mm²) - cable stiffness: solid - without cable end Power circuit: connector 1 cable(s) 0.020.19 in² (10120 mm²) - cable stiffness: flexible - without cable end Power circuit: connector 2 cable(s) 0.020.08 in² (1050 mm²) - cable stiffness: flexible - without cable end Power circuit: connector 1 cable(s) 0.020.19 in² (10120 mm²) - cable stiffness: flexible - with cable end Power circuit: connector 2 cable(s) 0.020.08 in² (1050 mm²) - cable stiffness: flexible - with cable end Power circuit: connector 1 cable(s) 0.020.19 in² (10120 mm²) - cable stiffness: flexible - with cable end

	Power circuit: connector 2 cable(s) 0.020.08 in² (1050 mm²) - cable stiffness: solid - without cable end
Tightening torque	Control circuit: 10.62 lbf.in (1.2 N.m) - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 10.62 lbf.in (1.2 N.m) - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 106.19 lbf.in (12 N.m) - on connector hexagonal 0.16 in (4 mm)
Operating time	620 ms opening 2050 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 <= 140 °F (60 °C)

#### Complementary

Coil technology	Built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.30.5 Uc drop-out at 131 °F (55 °C), AC 50/60 Hz 0.81.15 Uc operational at 131 °F (55 °C), AC 50/60 Hz
Inrush power in VA	280350 VA at 68 °F (20 °C) (cos φ 0.8) 60 Hz 280350 VA at 68 °F (20 °C) (cos φ 0.8) 50 Hz
Hold-in power consumption in VA	218 VA at 68 °F (20 °C) (cos φ 0.3) 60 Hz 218 VA at 68 °F (20 °C) (cos φ 0.3) 50 Hz
Heat dissipation	38 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 de-energisation (between NC and NO contact) 1.5 ms on 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 6 Gn for 11 ms
Height	6.22 in (158 mm)
Width	4.72 in (120 mm)
Depth	5.35 in (136 mm)
Product weight	5.51 lb(US) (2.5 kg)

#### Ordering and shipping details

Category	22345 - CTR,D-LINE,OPEN,NONREV-NEW
Discount Schedule	112
GTIN	00785901213499
Nbr. of units in pkg.	1
Package weight(Lbs)	5.450000000000002



Returnability	Υ
Country of origin	CZ
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
	Reference not containing SVHC above the threshold
Product environmental profile	Available
	Product Environmental Profile
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	
Warranty period	18 months