

# LC1D1156CD

TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V  
115 A - 36 V DC standard coil

Price\* : 479.00 USD



⚠ Discontinued

LC1D1156CD has not been replaced. Please contact your customer care center for more information.

## Main

Range	TeSys
Product name	TeSys D
Product or component type	Contacteur
Device short name	LC1D
Contacteur application	Motor control Resistive load
Utilisation category	AC-3 AC-1
Poles description	3P
Power pole contact composition	3 NO
System Voltage	<= 300 V DC power circuit <= 1000 V AC 25...400 Hz power circuit
[Ie] 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
Motor power kW	30 kW at 220...230 V AC 50/60 Hz 55 kW at 380...400 V AC 50/60 Hz 65 kW at 1000 V AC 50/60 Hz 75 kW at 500 V AC 50/60 Hz 80 kW at 660...690 V AC 50/60 Hz 59 kW at 415...440 V AC 50/60 Hz
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	DC standard
[Uc] control circuit voltage	36 V DC
Auxiliary contact composition	1 NO + 1 NC
[Uimp] rated impulse withstand voltage	Conforming to IEC 60947
Overvoltage category	III
[Ith] 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
[Icw] rated short-time withstand current	1100 A <= 104 °F (40 °C) 1 s power circuit

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

	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 - lth 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	DNV RINA LROS (Lloyds register of shipping) GL GOST BV CSA CCC UL
Connections - terminals	Power circuit: bars 1 5 x 25 mm Control circuit: lugs-ring terminals - external diameter: 0.31 in (8 mm) Power circuit: lugs-ring terminals - external diameter: 0.98 in (25 mm)
Tightening torque	Control circuit: 10.62 lbf.in (1.2 N.m) - on lugs-ring terminals - with screwdriver flat Ø 6 mm screw : M3.5 Control circuit: 10.62 lbf.in (1.2 N.m) - on lugs-ring terminals - with screwdriver Philips No 2 screw : M3.5 Power circuit: 106.19 lbf.in (12 N.m) - on lugs-ring terminals hexagonal 0.51 in (13 mm) screw : M8 Power circuit: 106.19 lbf.in (12 N.m) - on bars hexagonal 0.51 in (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	8 Mcycles
Operating rate	1200 cyc/h at ≤ 140 °F (60 °C)

## Complementary

Coil technology	With integral suppression device
Control circuit voltage limits	0.75...1.2 Uc operational at 131 °F (55 °C), DC 0.15...0.4 Uc drop-out at 131 °F (55 °C), DC
Time constant	25 ms
Inrush power in W	270...365 W at 68 °F (20 °C)
Hold-in power consumption in W	2.4...5.1 W at 68 °F (20 °C)
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	25...400 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	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 U <sub>c</sub>
Operating altitude	9842.52 ft (3000 m) without derating
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, 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	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	22359 - CTR, TESYS D, OPEN, 80-150A AC&DC
Discount Schedule	I12
Nbr. of units in pkg.	1
Package weight(Lbs)	4.6500000000000004
Returnability	N
Country of origin	CZ

## Offer Sustainability

RoHS (date code: YYWW)	Compliant - since 0927 - Schneider Electric declaration of conformity <a href="#">Schneider Electric declaration of conformity</a>
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## Contractual warranty

Warranty period	18 months
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