Product data sheet

Specifications





IEC contactor, TeSys Deca, nonreversing, 115A, 75HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 24VDC coil, open style

LC1D115BD

Product availability: Stock - Normally stocked in distribution facility

Price*: 479.00 USD

Main

Range	TeSys
Range Of Product	TeSys Deca
Product Or Component Type	Contactor
Device Short Name	LC1D
Contactor Application	Resistive load Motor control
Utilisation Category	AC-4 AC-1 AC-3 AC-3e
Poles Description	3P
[Ue] Rated Operational Voltage	Power circuit <= 1000 V AC 25400 Hz Power circuit <= 300 V DC
[le] Rated Operational Current	200 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 115 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 115 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit
[Uc] Control Circuit Voltage	24 V DC

Complementary

Protective Cover	With	
Pole Contact Composition	3 NO	
Compatibility Code	LC1D	
	100 hp at 575/600 V AC 50/60 Hz for 3 phase motors	
	75 hp at 460/480 V AC 50/60 Hz for 3 phase motors	
maximum florse rower rating	40 hp at 230/240 V AC 50/60 Hz for 3 phase motors	
Maximum Horse Power Rating	30 hp at 200/208 V AC 50/60 Hz for 3 phase motors	
	65 kW at 1000 V AC 50/60 Hz (AC-3e)	
	80 kW at 660690 V AC 50/60 Hz (AC-3e)	
	75 kW at 500 V AC 50/60 Hz (AC-3e)	
	59 kW at 415440 V AC 50/60 Hz (AC-3e)	
	55 kW at 380400 V AC 50/60 Hz (AC-3e)	
	30 kW at 220230 V AC 50/60 Hz (AC-3e)	
	18.5 kW at 400 V AC 50/60 Hz (AC-4)	
	80 kW at 660690 V AC 50/60 Hz (AC-3) 65 kW at 1000 V AC 50/60 Hz (AC-3)	
	75 kW at 500 V AC 50/60 Hz (AC-3)	
	59 kW at 415440 V AC 50/60 Hz (AC-3)	
	55 kW at 380400 V AC 50/60 Hz (AC-3)	
Motor Power Kw	30 kW at 220230 V AC 50/60 Hz (AC-3)	

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

[Ith] Conventional Free Air Thermal Current	200 A (at 140 °F (60 °C)) for power circuit	
Irms Rated Making Capacity	1260 A at 440 V for power circuit conforming to IEC 60947 140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1	
Rated Breaking Capacity	1100 A at 440 V for power circuit conforming to IEC 60947	
[Icw] Rated Short-Time Withstand Current	250 A 104 °F (40 °C) - 10 min for power circuit 550 A 104 °F (40 °C) - 1 min for power circuit 950 A 104 °F (40 °C) - 10 s for power circuit 1100 A 104 °F (40 °C) - 1 s for power circuit 1100 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit	
Associated Fuse Rating	250 A gG at <= 690 V coordination type 1 for power circuit 200 A gG at <= 690 V coordination type 2 for power circuit 10 A gG for signalling circuit	
Average Impedance	0.6 mOhm - Ith 200 A 50 Hz for power circuit	
Power Dissipation Per Pole	24 W AC-1 7.9 W AC-3 7.9 W AC-3e	
[Ui] Rated Insulation Voltage	Power circuit 600 V CSA Power circuit 600 V UL Power circuit 1000 V IEC 60947-4-1 Signalling circuit 690 V IEC 60947-1 Signalling circuit 600 V CSA Signalling circuit 600 V UL	
Overvoltage Category	III	
Overvoltage Category Pollution Degree	3	
Pollution Degree [Uimp] Rated Impulse Withstand	3	
Pollution Degree [Uimp] Rated Impulse Withstand Voltage	3 8 kV IEC 60947 B10d = 684932 cycles contactor with nominal load EN/ISO 13849-1	
Pollution Degree [Uimp] Rated Impulse Withstand Voltage Safety Reliability Level	3 8 kV IEC 60947 B10d = 684932 cycles contactor with nominal load EN/ISO 13849-1 B10d = 10000000 cycles contactor with mechanical load EN/ISO 13849-1	
Pollution Degree [Uimp] Rated Impulse Withstand Voltage Safety Reliability Level Mechanical Durability	3 8 kV IEC 60947 B10d = 684932 cycles contactor with nominal load EN/ISO 13849-1 B10d = 10000000 cycles contactor with mechanical load EN/ISO 13849-1 8 Mcycles 0.8 Mcycles 200 A AC-1 <= 440 V 0.95 Mcycles 115 A AC-3 <= 440 V	
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Power circuit: connector 2 0.020 08 in² (1050 mm²) - cable stiffness: flexible with cable end Power circuit: connector 1 0.020.19 in² (10120 mm²) - cable stiffness: solid without cable end Power circuit: connector 2 0.020.08 in² (1050 mm²) - cable stiffness: solid without cable end Power circuit: connector 2 0.020.08 in² (1050 mm²) - cable stiffness: solid without cable end Power circuit: 0.62 lbt.in (1.2 N.m) screw clamp terminals flat Ø 6 mm Control circuit 10.62 lbt.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 10.62 lbt.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 10.62 lbt.in (1.2 N.m) screw clamp terminals pozidiv No 2 Power circuit 10.62 lbt.in (1.2 N.m) screw clamp terminals pozidiv No 2 Power circuit 10.62 lbt.in (1.2 N.m) screw clamp terminals pozidiv No 2 Power circuit 10.62 lbt.in (1.2 N.m) screw clamp terminals pozidiv No 2 Power circuit 10.62 lbt.in (1.2 N.m) screw clamp terminals pozidiv No 2 Power circuit 10.62 lbt.in (1.2 N.m) screw clamp terminals pozidiv No 2 Power circuit 10.62 lbt.in (1.2 N.m) screw clamp terminals pozidiv No 2 Power circuit 10.62 lbt.in (1.2 N.m) screw clamp terminals pozidiv No 2 Power circuit 10.62 lbt.in (1.2 N.m) screw clamp terminals pozidiv No 2 Power circuit 10.62 lbt.in (1.2 N.m) screw clamp terminals pozidiv No 2 Power circuit 10.62 lbt.in (1.2 N.m) screw clamp terminals pozidiv No 2 Power circuit 10.62 lbt.in (1.2 N.m) screw clamp terminals pozidiv No 2 Power circuit 10.62 lbt.in (1.2 N.m) screw clamp terminals pozidiv No 2 Power circuit 10.62 lbt.in (1.2 N.m) screw clamp terminals pozidiv No 2 Power circuit 10.62 lbt.in (1.2 N.m) screw clamp terminals pozidiv No 2 Power circuit 10.62 lbt.in (1.2 N.m) screw clamp terminals pozidiv No 2 Power circuit 10.62 lbt.in (1.2 N.m) screw clamp terminals pozidiv No 2 Power circuit 10.62 lbt.in (1.2 N.m) screw clamp terminals pozidiv No 2 Power circuit 10.62 lbt.in (1.2 N.m) screw clamp terminals pozidiv No 2 Power circuit 10.62 lbt.in (1.2 N.m) screw clamp terminals p		Power circuit: connector 1 0.020.19 in² (10120 mm²) - cable stiffness: flexible	
Power circuit: connector 1 0.020.19 in² (10120 mm²) - cable stiffness: solid without cable end Power circuit: connector 2 0.020.08 in² (1050 mm²) - cable stiffness: solid without cable end Power circuit: connector 2 0.020.08 in² (1050 mm²) - cable stiffness: solid without cable end Power circuit: 10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 10		Power circuit: connector 2 0.020.08 in² (1050 mm²) - cable stiffness: flexible with	
Tightening Torque Control circuit 10.62 ibf.in (1.2 N.m) screw clamp terminals flat Ø 6 mm Control circuit 10.62 ibf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 10.62 ibf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 10.62 ibf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 10.62 ibf.in (1.2 N.m) screw clamp terminals pozidriv No 2 Auxiliary Contact Composition INO + 1 NC Auxiliary Contacts Type Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1 Signalling Circuit Frequency 25400 Hz Minimum Switching Voltage 17 V for signalling circuit Minimum Switching Current 5 mA for signalling circuit Insulation Resistance > 10 MChm for signalling circuit Mounting Resistance 1.5 ms on de-energisation between NC and NO contact 1.5 ms on de-energisation between NC and NO contact 1.5 ms on de-energisation between NC and NO contact 1.5 ms on de-energisation de-energisation de-energisation de-en		Power circuit: connector 1 0.020.19 in² (10120 mm²) - cable stiffness: solid	
Control circuit 10.62 lbt.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 10.62 lbt.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 10.62 lbt.in (1.2 N.m) screw clamp terminals pozidivi No 2 Auxiliary Contact Composition 1 NO + 1 NC Auxiliary Contacts Type Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1 Signalling Circuit Frequency 25400 Hz Minimum Switching Voltage 17 V for signalling circuit Minimum Switching Current 5 mA for signalling circuit Insulation Resistance > 10 MOhm for 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 Mounting Support Plate Rail Environment Standards CSA C22.2 No 14 EN 60947-4-1 IEC 60947-5-1 I		· · · · · · · · · · · · · · · · · · ·	
Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 10.62 lbf.in (1.2 N.m) connector hexagonal 0.16 in (4 mm) Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals pozidriv No 2 Auxiliary Contact Composition 1 NO + 1 NC Auxiliary Contacts Type Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1 Signalling Circuit Frequency 25400 Hz Minimum Switching Voltage 17 V for signalling circuit Minimum Switching Current 5 mA for signalling circuit Insulation Resistance > 10 MOhm for 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 Mounting Support Plate Rail Environment Standards CSA C22.2 No 14 EN 60947-4-1 IEC 60947-9-1	Tightening Torque	Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals flat Ø 6 mm	
Auxiliary Contacts Type Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1 Signalling Circuit Frequency 25400 Hz Minimum Switching Voltage 17 V for signalling circuit Insulation Resistance > 10 MChm for signalling circuit Insulation Resistance > 10 MChm for 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 Mounting Support Plate Rail Environment Standards CSA C22.2 No 14 EN 60947-4-1 EN 60947-4-1 EC 60947-5-1 IEC 60947-5-1 IEC 60947-5-1 UL 508 Product Certifications CCC UL BW CSA GL GOST DNV LROS (Lloyds register of shipping) RINA UKCA CE Ip Degree Of Protection IP20 front face IEC 60529 Protective Treatment IACS E10 exposure to damp heat		Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 106.21 lbf.in (12 N.m) connector hexagonal 0.16 in (4 mm)	
Mirror contact 1 NC IEC 60947-4-1 Signalling Circuit Frequency 25400 Hz Minimum Switching Voltage 17 V for signalling circuit Minimum Switching Current 5 mA for signalling circuit Insulation Resistance > 10 MOhm for 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 1.5 ms on energisation between NC and NO contact Mounting Support Plate Rail Environment Standards CSA C22 2 No 14 EN 60947-4-1 EN 60947-4-1 EC 60947-4-1 EC 60947-4-1 EC 60947-5-1 UL 508 Product Certifications CCC UL By CSA GL GOST DNV LROS (Lloyds register of shipping) RINA UKCA CE Ip Degree Of Protection IP20 front face IEC 60529 Protective Treatment THEC 60068-2-30 Climatic Withstand IACS E10 exposure to damp heat	Auxiliary Contact Composition	1 NO + 1 NC	
Minimum Switching Voltage 17 V for signalling circuit Minimum Switching Current 5 mA for signalling circuit Insulation Resistance > 10 MOhm for 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 Mounting Support Plate Rail Environment Standards CSA C22.2 No 14 EN 60947-5-1 IEC 60947-5-1 IEC 60947-5-1 IEC 60947-5-1 UL 508 Product Certifications CCC UL BV CSA GL GOST DNV LROS (Lloyds register of shipping) RINA UKCA CE Ip Degree Of Protection IP20 front face IEC 60529 Protective Treatment THIEC 60068-2-30 Climatic Withstand IACS E10 exposure to damp heat	Auxiliary Contacts Type		
Minimum Switching Current Insulation Resistance > 10 MOhm for 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 1.5 ms on energisation between NC and NO contact Plate Rail Environment 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 CCC UL BV CSA GL GOST DNV LROS (Lloyds register of shipping) RINA UKCA CE Ip Degree Of Protection IP20 front face IEC 60529 Protective Treatment THIEC 60068-2-30 Climatic Withstand IACS E10 exposure to damp heat	Signalling Circuit Frequency	25400 Hz	
Insulation Resistance > 10 MOhm for 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 Mounting Support Plate Rail Environment Standards CSA C22.2 No 14 EN 60947-4-1 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 Product Certifications CCC UL BV CSA GL GOST DNV LROS (Lloyds register of shipping) RINA UKCA CE Ip Degree Of Protection IP20 front face IEC 60529 Protective Treatment THIEC 60068-2-30 Climatic Withstand IACS E10 exposure to damp heat	Minimum Switching Voltage	17 V for 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 Mounting Support Plate Rail Environment Standards CSA C22.2 No 14 EN 60947-4-1 IEC 60947-5-1 IEC 60947-5-1 UL 508 Product Certifications CCC UL BV CSA GL GOST DNV LROS (Lloyds register of shipping) RINA UKCA CE Ip Degree Of Protection IP20 front face IEC 60529 Protective Treatment THIEC 60068-2-30 Climatic Withstand IACS E10 exposure to damp heat	Minimum Switching Current	5 mA for signalling circuit	
1.5 ms on energisation between NC and NO contact	Insulation Resistance	> 10 MOhm for signalling circuit	
CSA C22.2 No 14	Non-Overlap Time	•	
Standards	Mounting Support		
EN 60947-4-1	Environment		
EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508	Standards	CSA C22.2 No 14	
IEC 60947-5-1 UL 508			
Product Certifications CCC UL BV CSA GL GOST DNV LROS (Lloyds register of shipping) RINA UKCA CE Ip Degree Of Protection IP20 front face IEC 60529 Protective Treatment THIEC 60068-2-30 Climatic Withstand IACS E10 exposure to damp heat		IEC 60947-4-1	
UL BV CSA GL GOST DNV LROS (Lloyds register of shipping) RINA UKCA CE Ip Degree Of Protection IP20 front face IEC 60529 Protective Treatment THIEC 60068-2-30 Climatic Withstand IACS E10 exposure to damp heat			
BV CSA GL GOST DNV LROS (Lloyds register of shipping) RINA UKCA CE Ip Degree Of Protection IP20 front face IEC 60529 Protective Treatment THIEC 60068-2-30 Climatic Withstand IACS E10 exposure to damp heat	Product Certifications		
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GOST DNV LROS (Lloyds register of shipping) RINA UKCA CE Ip Degree Of Protection IP20 front face IEC 60529 Protective Treatment THIEC 60068-2-30 Climatic Withstand IACS E10 exposure to damp heat			
DNV LROS (Lloyds register of shipping) RINA UKCA CE Ip Degree Of Protection IP20 front face IEC 60529 Protective Treatment THIEC 60068-2-30 Climatic Withstand IACS E10 exposure to damp heat			
RINA UKCA CE Ip Degree Of Protection IP20 front face IEC 60529 Protective Treatment THIEC 60068-2-30 Climatic Withstand IACS E10 exposure to damp heat			
UKCA CE Ip Degree Of Protection IP20 front face IEC 60529 Protective Treatment THIEC 60068-2-30 Climatic Withstand IACS E10 exposure to damp heat			
Ip Degree Of Protection IP20 front face IEC 60529 Protective Treatment THIEC 60068-2-30 Climatic Withstand IACS E10 exposure to damp heat			
Protective Treatment THIEC 60068-2-30 Climatic Withstand IACS E10 exposure to damp heat		CE	
Climatic Withstand IACS E10 exposure to damp heat	Ip Degree Of Protection	IP20 front face IEC 60529	
in the 2 to expected to during from	Protective Treatment	THIEC 60068-2-30	
	Climatic Withstand	·	

Permissible Ambient Air Temperature Around The Device	-40140 °F (-4060 °C) 140158 °F (6070 °C) with derating
Operating Altitude	09842.52 ft (03000 m)
Fire Resistance	1562 °F (850 °C) 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)
Net Weight	5.51 lb(US) (2.5 kg)

Ordering and shipping details

Category	US10I1222359
Discount Schedule	0112
Gtin	3389110376463
Returnability	Yes
Country Of Origin	US

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	8.66 in (22.000 cm)
Package 1 Width	7.87 in (20.000 cm)
Package 1 Length	9.06 in (23.000 cm)
Package 1 Weight	5.46 lb(US) (2.478 kg)
Unit Type Of Package 2	P06
Number Of Units In Package 2	27
Package 2 Height	29.53 in (75.000 cm)
Package 2 Width	23.62 in (60.000 cm)
Package 2 Length	31.50 in (80.000 cm)
Package 2 Weight	175.92 lb(US) (79.798 kg)

Contractual warranty

Warranty 18 months



Green PremiumTM **label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

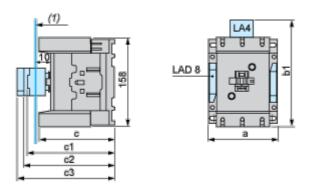


Certifications & Standards

REACh Declaration	
Compliant with Exemptions	
China RoHS declaration Product out of China RoHS scope. Substance declaration for your information.	
Product Environmental Profile	
The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.	
End of Life Information	
WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov	

Dimensions Drawings

Dimensions



(1) Minimum electrical clearance

LC1		D115 and D150 (3-pole)
а		120
	with LA4 DA2	174
b1	with LA4 DF, DT	185
	with LA4 DM, DL	188
	with LA4 DW	188
	without cover or add-on blocks	132
C	with cover, without add-on blocks	136
с1	with LAD N or C (2 or 4 contacts)	150
c2	with LA6 DK20	155
с3	with LAD T, R, S	168
	with LAD T, R, S and sealing cover	172

Connections and Schema

Wiring

