# Product data sheet

Specifications





IEC contactor, TeSys Deca, nonreversing, 115A, 75HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 48VAC 50/60Hz coil, open

LC1D115E7

Product availability: Non-Stock - Not 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       Motor control Resistive load         Utilisation Category       AC-1 AC-4 AC-3 AC-3e         Poles Description       3P         [Ue] Rated Operational Voltage       Power circuit <= 1000 V AC 25400 Hz Power circuit <= 300 V DC		
Product Or Component Type       Contactor         Device Short Name       LC1D         Contactor Application       Motor control Resistive load         Utilisation Category       AC-1 AC-4 AC-3 AC-3e         Poles Description       3P         [Ue] Rated Operational Voltage       Power circuit <= 1000 V AC 25400 Hz Power circuit <= 300 V DC	Range	TeSys
Device Short Name       LC1D         Contactor Application       Motor control Resistive load         Utilisation Category       AC-1 AC-4 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-3 for power circuit	Range Of Product	TeSys Deca
Contactor Application       Motor control Resistive load         Utilisation Category       AC-1 AC-4 AC-3 AC-3e         Poles Description       3P         [Ue] Rated Operational Voltage       Power circuit <= 1000 V AC 25400 Hz Power circuit <= 300 V DC	Product Or Component Type	Contactor
Resistive load         Utilisation Category       AC-1 AC-4 AC-3 AC-3e         Poles Description       3P         [Ue] Rated Operational Voltage       Power circuit <= 1000 V AC 25400 Hz Power circuit <= 300 V DC	Device Short Name	LC1D
AC-4         AC-3         AC-3e         Poles Description         3P         [Ue] Rated Operational Voltage         Power circuit <= 1000 V AC 25400 Hz	Contactor Application	
[Ue] Rated Operational Voltage       Power circuit <= 1000 V AC 25400 Hz	Utilisation Category	AC-4 AC-3
[le] Rated Operational Current       200 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit	Poles Description	3P
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	[Ue] Rated Operational Voltage	
[Uc] Control Circuit Voltage 48 V AC 50/60 Hz	[le] Rated Operational Current	115 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit
	[Uc] Control Circuit Voltage	48 V AC 50/60 Hz

#### Complementary

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

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 100 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	
Pollution Degree	3	
[Uimp] Rated Impulse Withstand Voltage	8 kV IEC 60947	
Safety Reliability Level	B10d = 684932 cycles contactor with nominal load EN/ISO 13849-1 B10d = 10000000 cycles contactor with mechanical load EN/ISO 13849-1	
Mechanical Durability	8 Mcycles	
Electrical Durability	0.8 Mcycles 200 A AC-1 <= 440 V 0.95 Mcycles 115 A AC-3 <= 440 V 0.95 Mcycles 115 A AC-3e <= 440 V	
Control Circuit Type	AC 50/60 Hz standard	
Coil Technology	Built-in bidirectional peak limiting diode suppressor	
Control Circuit Voltage Limits	0.30.5 Uc -40158 °F (-4070 °C) drop-out AC 50/60 Hz 0.81.15 Uc -40131 °F (-4055 °C) operational AC 50/60 Hz 11.15 Uc 131158 °F (5570 °C) operational AC 50/60 Hz	
Inrush Power In Va	280350 VA 60 Hz cos phi 0.8 (at 68 °F (20 °C)) 280350 VA 50 Hz cos phi 0.8 (at 68 °F (20 °C))	
Hold-In Power Consumption In Va	<ul> <li>218 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C))</li> <li>218 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C))</li> </ul>	
Heat Dissipation	38 W at 50/60 Hz	
Operating Time	620 ms opening 2050 ms closing	
Maximum Operating Rate	2400 cyc/h 140 °F (60 °C)	

<b>Connections - Terminals</b>	Control circuit: screw clamp terminals 2 0.000.00 in <sup>2</sup> (12.5 mm <sup>2</sup> ) - cable stiffness:
	flexible with cable end
	Control circuit: screw clamp terminals 1 0.000.00 in <sup>2</sup> (12.5 mm <sup>2</sup> ) - cable stiffness:
	flexible with cable end
	Control circuit: screw clamp terminals 1 0.000.00 in <sup>2</sup> (12.5 mm <sup>2</sup> ) - cable stiffness:
	flexible without cable end
	Control circuit: screw clamp terminals 2 0.000.00 in <sup>2</sup> (12.5 mm <sup>2</sup> ) - cable stiffness:
	flexible without cable end
	Control circuit: screw clamp terminals 1 0.000.00 in <sup>2</sup> (12.5 mm <sup>2</sup> ) - cable stiffness:
	solid without cable end
	Control circuit: screw clamp terminals 2 0.000.00 in <sup>2</sup> (12.5 mm <sup>2</sup> ) - cable stiffness:
	solid without cable end
	Power circuit: connector 1 0.020.19 in <sup>2</sup> (10120 mm <sup>2</sup> ) - cable stiffness: flexible
	without cable end
	Power circuit: connector 2 0.020.08 in <sup>2</sup> (1050 mm <sup>2</sup> ) - cable stiffness: flexible
	without cable end
	Power circuit: connector 1 0.020.19 in <sup>2</sup> (10120 mm <sup>2</sup> ) - cable stiffness: flexible
	with cable end
	Power circuit: connector 2 0.020.08 in <sup>2</sup> (1050 mm <sup>2</sup> ) - cable stiffness: flexible with
	cable end
	Power circuit: connector 1 0.020.19 in <sup>2</sup> (10120 mm <sup>2</sup> ) - cable stiffness: solid
	without cable end
	Power circuit: connector 2 0.020.08 in <sup>2</sup> (1050 mm <sup>2</sup> ) - cable stiffness: solid without cable end
	without cable end
Fightening Torque	Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals flat Ø 6 mm
	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)
	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

## 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	DNV CCC RINA GOST BV GL LROS (Lloyds register of shipping) CSA UL 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 60947-1 Annex Q category D exposure to damp heat

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	3389110376845
Returnability	No
Country Of Origin	CZ

### **Packing Units**

-	
Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	7.87 in (20.000 cm)
Package 1 Width	7.48 in (19.000 cm)
Package 1 Length	8.66 in (22.000 cm)
Package 1 Weight	5.46 lb(US) (2.475 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	175.98 lb(US) (79.825 kg)

### **Contractual warranty**

Warranty

18 months

## Sustainability Screen Premium

**Green Premium<sup>TM</sup> 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-CO<sub>2</sub> 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

Mercury Free
 Rohs Exemption Information Yes
 Pvc Free

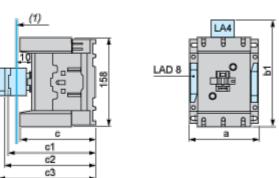
#### **Certifications & Standards**

Reach Regulation	REACh Declaration	
Eu Rohs Directive	Compliant with Exemptions	
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information.	
Environmental Disclosure	Product Environmental Profile	
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.	
Circularity Profile	End of Life Information	
California Proposition 65	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	

## Product data sheet

#### **Dimensions Drawings**

#### Dimensions



#### (1) Minimum electrical clearance

LC1		D115 and D150 (3-pole)
a		120
	with LA4 DA2	174
b1	with LA4 DF, DT	185
ומ	with LA4 DM, DL	188
	with LA4 DW	188
	without cover or add-on blocks	132
c	with cover, without add-on blocks	136
c1	with LAD N or C (2 or 4 contacts)	150
c2	with LA6 DK20	155
c3	with LAD T, R, S	168
63	with LAD T, R, S and sealing cover	172

## Product data sheet

Connections and Schema

Wiring

