### Product data sheet

Specifications





IEC contactor, TeSys Deca, nonreversing, 25A, 15HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 240VAC 50/60Hz coil, open

LC1D25U7

Product availability: Stock - Normally stocked in distribution facility

Price\*: 181.20 USD

#### Main

Range of Product	TeSys Deca
Product or Component Type	Contactor
Device short name	LC1D
contactor application	Motor control Resistive load
Utilisation category	AC-3 AC-1 AC-3e
poles description	3P
[Ue] rated operational voltage	Power circuit <= 690 V AC 25400 Hz Power circuit <= 300 V DC
[le] rated operational current	25 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 40 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 25 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit
[Uc] control circuit voltage	240 V AC 50/60 Hz

#### Complementary

Motor power kW	5.5 kW at 220230 V AC 50/60 Hz (AC-3)  11 kW at 380400 V AC 50/60 Hz (AC-3)  11 kW at 415440 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 400 V AC 50/60 Hz (AC-4)  5.5 kW at 220230 V AC 50/60 Hz (AC-3e)  11 kW at 380400 V AC 50/60 Hz (AC-3e)  11 kW at 415440 V AC 50/60 Hz (AC-3e)  15 kW at 500 V AC 50/60 Hz (AC-3e)  15 kW at 660690 V AC 50/60 Hz (AC-3e)
Maximum Horse Power Rating	3 hp at 230/240 V AC 50/60 Hz for 1 phase motors 2 hp at 115 V AC 50/60 Hz for 1 phase motors 7.5 hp at 230/240 V AC 50/60 Hz for 3 phase motors 15 hp at 460/480 V AC 50/60 Hz for 3 phase motors 20 hp at 575/600 V AC 50/60 Hz for 3 phase motors 7.5 hp at 200/208 V AC 50/60 Hz for 3 phase motors
Compatibility code	LC1D
Pole contact composition	3 NO
Protective cover	With
[Ith] conventional free air thermal current	10 A (at 140 °F (60 °C)) for signalling circuit 40 A (at 140 °F (60 °C)) for power circuit

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

Irms rated making capacity	140 A AC for signalling circuit conforming to IEC 60947-5-1
	250 A DC for signalling circuit conforming to IEC 60947-5-1
	450 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	450 A at 440 V for power circuit conforming to IEC 60947
[lcw] rated short-time withstand	240 A 104 °F (40 °C) - 10 s for power circuit
current	380 A 104 °F (40 °C) - 1 s for power circuit
	50 A 104 °F (40 °C) - 10 min for power circuit
	120 A 104 °F (40 °C) - 1 min 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	10 A gG for signalling circuit conforming to IEC 60947-5-1
-	63 A gG at <= 690 V coordination type 1 for power circuit
	40 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	2 mOhm - Ith 40 A 50 Hz for power circuit
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Power dissipation per pole	3.2 W AC-1
	1.25 W AC-3
	1.25 W AC-3e
[Ui] rated insulation voltage	Power circuit 690 V IEC 60947-4-1
	Power circuit 600 V CSA
	Power circuit 600 V UL
	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	6 kV IEC 60947
Safety reliability level	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
Mechanical durability	15 Mcycles
Electrical durability	1.65 Mcycles 25 A AC-3 <= 440 V
· · · · · · · · · · · · · · · · · · ·	1.4 Mcycles 40 A AC-1 <= 440 V
	1.65 Mcycles 25 A AC-3e <= 440 V
Control circuit type	AC 50/60 Hz
Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.2. 0.6.Hz, 40. 450.°F / 40. 70.°C / days and 40.50/60.Hz
Control circuit voltage limits	0.30.6 Uc -40158 °F (-4070 °C) drop-out AC 50/60 Hz
	0.81.1 Uc -40140 °F (-4060 °C) operational AC 50 Hz
	0.851.1 Uc -40140 °F (-4060 °C) operational AC 60 Hz 11.1 Uc 140158 °F (6070 °C) operational AC 50/60 Hz
	11.1 OC 140136 F (0070 C) operational AC 50/00 Hz
Inrush power in VA	70 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C))
	70 VA 50 Hz cos phi 0.75 (at 68 °F (20 °C))
Hold-in power consumption in VA	7.5.\/\\\ 60.Hz coc.phi.0.3.(at 68.°E /20.°C\)
Horasiii power consumption ill VA	7.5 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) 7 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C))
Heat dissipation	23 W at 50/60 Hz
Operating time	42, 22 ma alasian
Operating time	1222 ms closing
	419 ms opening
Maximum operating rate	3600 cyc/h 140 °F (60 °C)

IP degree of protection	IP20 front face IEC 60529
ID days and the state of the st	UKCA CB
	CSA GOST
	UL CCC
	LROS (Lloyds register of shipping) RINA
	DNV
Product Certifications	GL BV
	IEC 60335-1
	IEC 60947-5-1 UL 508
	EN 60947-5-1 IEC 60947-4-1
	EN 60947-4-1
Environment Standards	CSA C22.2 No 14
Mounting Support	Rail Plate
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 for signalling circuit
Minimum switching current	5 mA for signalling circuit
Minimum switching voltage	17 V for signalling circuit
Signalling circuit frequency	25400 Hz
Auxiliary contacts type	Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1
Auxiliary contact composition	1 NO + 1 NC
	Power circuit 22.1 lbf.in (2.5 N.m) screw clamp terminals flat Ø 6 mm Power circuit 22.1 lbf.in (2.5 N.m) screw clamp terminals Philips No 2 Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2 Power circuit 22.1 lbf.in (2.5 N.m) screw clamp terminals pozidriv No 2
Tightening torque	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2
	Power circuit: screw clamp terminals 2 0.0040.02 in² (2.510 mm²) - cable stiffness: solid without cable end
	Power circuit: screw clamp terminals 1 0.0020.02 in² (1.510 mm²) - cable stiffness: solid without cable end
	stiffness: flexible with cable end
	flexible with cable end Power circuit: screw clamp terminals 2 0.0020.009 in² (1.56 mm²) - cable
	stiffness: flexible without cable end  Power circuit: screw clamp terminals 1 0.0020.02 in² (110 mm²) - cable stiffness:
	stiffness: flexible without cable end Power circuit: screw clamp terminals 2 0.0040.02 in² (2.510 mm²) - cable
	Power circuit: screw clamp terminals 1 0.0040.02 in² (2.510 mm²) - cable
	Control circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable stiffness: solid without cable end
	Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable stiffness: solid without cable end
	Control circuit: screw clamp terminals 2 0.0020.004 in² (12.5 mm²) - cable stiffness: flexible with cable end
	Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable stiffness: flexible with cable end
	Control circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable stiffness: flexible without cable end

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 8 Gn for 11 ms)
Height	3.3 in (85 mm)
Width	1.8 in (45 mm)
Depth	3.6 in (92 mm)
Net Weight	0.82 lb(US) (0.37 kg)

## Ordering and shipping details

Category	US10l1222354
Discount Schedule	0112
GTIN	3389110350081
Returnability	Yes
Country of origin	FR

## **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.0 in (5.0 cm)
Package 1 Width	3.6 in (9.2 cm)
Package 1 Length	4.4 in (11.2 cm)
Package 1 Weight	14.6 oz (414.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	20
Package 2 Height	5.9 in (15.0 cm)
Package 2 Width	11.8 in (30.0 cm)
Package 2 Length	15.7 in (40.0 cm)
Package 2 Weight	19.213 lb(US) (8.715 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	320
Package 3 Height	29.5 in (75.0 cm)
Package 3 Width	31.5 in (80.0 cm)
Package 3 Length	23.6 in (60.0 cm)
Package 3 Weight	326.15 lb(US) (147.94 kg)

# **Contractual warranty**

Warranty

18 months

### Sustainability Green 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

Rohs Exemption Information

Yes



Pvc Free

#### **Certifications & Standards**

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant
	EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
	Pro-active China RoHS declaration (out of China RoHS legal scope)
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