## **Product data sheet**

Specification





IEC contactor, TeSys Deca, nonreversing, 25A, 15HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 12VDC coil, open style

LC1D25JL

Product availability: Stock - Normally stocked in distribution facility

Price\*: 226.80 USD

#### Main

Range of Product	TeSys Deca
Product or Component Type	Contactor
Device short name	LC1D
contactor application	Resistive load Motor control
Utilisation category	AC-3 AC-4 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	12 V DC

#### 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

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

[lth] 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
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
[Icw] rated short-time withstand current	240 A 104 °F (40 °C) - 10 s for power circuit 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 120 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
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
Overvoltage category  Pollution degree	3
Pollution degree  [Uimp] rated impulse withstand	3
Pollution degree [Uimp] rated impulse withstand voltage	3 6 kV IEC 60947 B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1
Pollution degree  [Uimp] rated impulse withstand voltage  Safety reliability level	3  6 kV IEC 60947  B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
Pollution degree  [Uimp] rated impulse withstand voltage  Safety reliability level  Mechanical durability	3 6 kV IEC 60947  B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 30 Mcycles  1.65 Mcycles 25 A AC-3 <= 440 V 1.4 Mcycles 40 A AC-1 <= 440 V
Pollution degree  [Uimp] rated impulse withstand voltage  Safety reliability level  Mechanical durability  Electrical durability	3 6 kV IEC 60947  B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1  30 Mcycles  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
Pollution degree  [Uimp] rated impulse withstand voltage  Safety reliability level  Mechanical durability  Electrical durability  Control circuit type	3 6 kV IEC 60947  B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 30 Mcycles  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 DC low consumption
Pollution degree  [Uimp] rated impulse withstand voltage Safety reliability level  Mechanical durability  Electrical durability  Control circuit type  Coil technology	3 6 kV IEC 60947  B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1  30 Mcycles  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 DC low consumption  Built-in bidirectional peak limiting diode suppressor  0.10.3 Uc -40158 °F (-4070 °C) drop-out DC 0.81.25 Uc -40140 °F (-4060 °C) operational DC
Pollution degree  [Uimp] rated impulse withstand voltage Safety reliability level  Mechanical durability  Electrical durability  Control circuit type  Coil technology  Control circuit voltage limits	3 6 kV IEC 60947  B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1  30 Mcycles  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  DC low consumption  Built-in bidirectional peak limiting diode suppressor  0.10.3 Uc -40158 °F (-4070 °C) drop-out DC 0.81.25 Uc -40140 °F (-4060 °C) operational DC 11.25 Uc 140158 °F (6070 °C) operational DC
Pollution degree  [Uimp] rated impulse withstand voltage Safety reliability level  Mechanical durability  Electrical durability  Control circuit type  Coil technology  Control circuit voltage limits  Inrush power in W	3 6 kV IEC 60947  B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1  30 Mcycles  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  DC low consumption  Built-in bidirectional peak limiting diode suppressor  0.10.3 Uc -40158 °F (-4070 °C) drop-out DC 0.81.25 Uc -40140 °F (-4060 °C) operational DC 11.25 Uc 140158 °F (6070 °C) operational DC  2.4 W 68 °F (20 °C))
Pollution degree  [Uimp] rated impulse withstand voltage Safety reliability level  Mechanical durability  Electrical durability  Control circuit type  Coil technology  Control circuit voltage limits  Inrush power in W  Hold-in power consumption in W	3 6 kV IEC 60947  B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1  30 Mcycles  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  DC low consumption  Built-in bidirectional peak limiting diode suppressor  0.10.3 Uc -40158 °F (-4070 °C) drop-out DC 0.81.25 Uc -40140 °F (-4060 °C) operational DC 11.25 Uc 140158 °F (6070 °C) operational DC 2.4 W 68 °F (20 °C)  2.4 W 68 °F (20 °C)  77 ±15 % ms closing

Connections - terminals	Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable stiffness: flexible without cable end
	Control circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable
	stiffness: flexible without 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 0.0020.004 in <sup>2</sup> (12.5 mm <sup>2</sup> ) - cable stiffness: flexible with 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 0.0020.006 in² (14 mm²) - cable
	stiffness: solid without cable end
	Power circuit: screw clamp terminals 1 0.0040.02 in² (2.510 mm²) - cable stiffness: flexible without cable end
	Power circuit: screw clamp terminals 2 0.0040.02 in² (2.510 mm²) - cable
	stiffness: flexible without cable end Power circuit: screw clamp terminals 1 0.0020.02 in² (110 mm²) - cable stiffness:
	flexible with cable end Power circuit: screw clamp terminals 2 0.0020.009 in² (1.56 mm²) - cable
	stiffness: flexible with cable end
	Power circuit: screw clamp terminals 1 0.0020.02 in² (1.510 mm²) - cable stiffness: solid without cable end
	Power circuit: screw clamp terminals 2 0.0040.02 in² (2.510 mm²) - cable
	stiffness: solid without cable end
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 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 liat 9 0 mm
	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
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	<ul><li>1.5 ms on de-energisation between NC and NO contact</li><li>1.5 ms on energisation between NC and NO contact</li></ul>
Mounting Support	Rail
	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 IEC 60335-1
Product Certifications	GL BV
	DNV
	LROS (Lloyds register of shipping)
	RINA
	UL
	CCC
	CCC CSA
	CCC
	CCC CSA GOST
IP degree of protection	CCC CSA GOST UKCA

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	4.0 in (101 mm)
Net Weight	1.17 lb(US) (0.53 kg)

## Ordering and shipping details

Category	US10l1222354
Discount Schedule	0112
GTIN	3389110361797
Returnability	Yes
Country of origin	FR

## **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.969 in (5.000 cm)
Package 1 Width	3.622 in (9.200 cm)
Package 1 Length	4.409 in (11.200 cm)
Package 1 Weight	21.023 oz (596.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Height	5.906 in (15.000 cm)
Package 2 Width	11.811 in (30.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	20.712 lb(US) (9.395 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	240
Package 3 Height	31.496 in (80.000 cm)
Package 3 Width	31.496 in (80.000 cm)
Package 3 Length	23.622 in (60.000 cm)
Package 3 Weight	350.138 lb(US) (158.820 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



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