

IEC contactor, TeSys Deca, nonreversing, 25A, 15HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 48VAC 50/60Hz coil, open

LC1D25E7

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	TeSys Deca	
Product or Component Type	Contactor	
Device short name	LC1D	
Contactor application	Resistive load Motor control	
Utilisation category	AC-1 AC-4 AC-3 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	48 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
[Icw] rated short-time withstand current	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
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
84 b 1 - b b - 10 b	·
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 standard
Coil technology	Without built-in suppressor module
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
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 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	1222 ms closing
. •	419 ms opening
Maximum operating rate	3600 cyc/h at 60 °C
	3333 3,3.1. 31 00 0

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 in² (12.5 mm²) - 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 in ² (110 mm ²) - 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	
Sumess. Solid without cable end	
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 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	
1 NO + 1 NC	
Mechanically linked 1 NO + 1 NC IEC 60947-5-1	
Mirror contact 1 NC IEC 60947-4-1	
25400 Hz	
17 V for signalling circuit	
5 mA for signalling circuit	
> 10 MOhm for signalling circuit	
1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact	
Rail	
Plate	
CSA C32 2 No. 44	
CSA C22.2 No 14 EN 60947-4-1	
EN 60947-5-1	
IEC 60947-4-1	
IEC 60947-5-1 UL 60947-4-1	
IEC 60335-1:Clause 30.2	
IEC 60335-2-40:Annex JJ	
UL 60335-2-40:Annex JJ CSA C22.2 No 60947-4-1	
UL	
CCC	
CSA	
Marine UKCA	
EAC	
CB Scheme	
IP20 front face IEC 60529	
IP20 front face IEC 60529	
THIEC 60068-2-30	

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

	<u>,, </u>
Category	US10I1222354
Discount Schedule	0112
GTIN	3389110349689
Returnability	Yes
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.165 in (5.500 cm)
Package 1 Width	3.937 in (10.000 cm)
Package 1 Length	4.724 in (12.000 cm)
Package weight(Lbs)	15.026 oz (426.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	16
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	16.083 lb(US) (7.295 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	256
Package 3 Height	29.528 in (75.000 cm)
Package 3 Width	23.622 in (60.000 cm)
Package 3 Length	31.496 in (80.000 cm)
Package 3 Weight	268.444 lb(US) (121.764 kg)

Contractual warranty

Warranty (in months)



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

☑ Environmental footprint	
Carbon footprint (kg CO2 eq, Total Life cycle)	127
Environmental Disclosure	Product Environmental Profile

Use Better

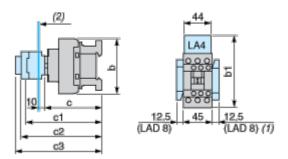
Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant
REACh Regulation	REACh Declaration
California proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov
PVC free	Yes

Use Again

○ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Dimensions Drawings

Dimensions

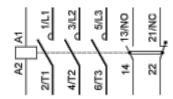


- (1) Including LAD 4BB
- (2) Minimum electrical clearance

LC1		D25D38 (3-pole)
b	without add-on blocks	85
	with LAD 4BB	98
b1 -	with LA4 D●2	114 ⁽¹⁾
	with LA4 DF, DT	123 ⁽¹⁾
	with LA4 DW, DL	130(1)
С	without cover or add-on blocks	90
	with cover, without add-on blocks	92
с1	with LAD N or C (2 or 4 contacts)	123
с2	with LA6 DK10, LAD 6K10	135
с3	with LAD T, R, S	143
	with LAD T, R, S and sealing cover	147
(1)	Including LAD 4BB.	

Connections and Schema

Wiring



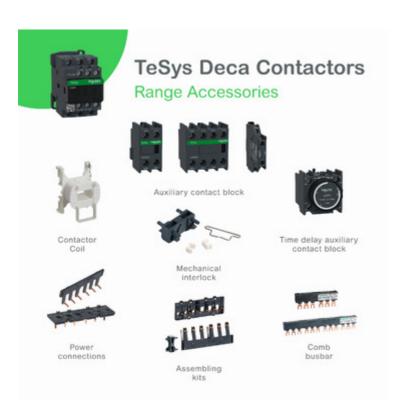
Offer Marketing Illustration

Product benefits / Features



Offer Marketing Illustration

Product benefits / Features



Offer Marketing Illustration

Product benefits / Features



Image of product / Alternate images

Alternative









LC1D25E7

Technical Illustration

Assembly's dimensions

