Main



TeSys Deca contactor, 3P(3 NO), AC-3/AC-3e, <= 440V, 40 A, 60V DC standard coil

LC1D40AND

Product availability: Non-Stock - Not normally stocked in distribution facility

! Discontinued

Range	TeSys TeSys Deca
Range of Product	TeSys Deca
Product or Component Type	Contactor
Device short name	LC1D
Contactor application	Motor control Resistive load
Utilisation category	AC-4 AC-1 AC-3 AC-3e

[Ue] rated operational voltage	Power circuit <= 690 V AC 25400 Hz Power circuit <= 300 V DC	
[le] rated operational current	60 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 40 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-3e for power circuit	

[Uc] control circuit voltage 60 V DC

3P

Complementary

Poles description

Motor power kW	18.5 kW at 380400 V AC 50/60 Hz (AC-3)	
	11 kW at 220230 V AC 50/60 Hz (AC-3)	
	22 kW at 415440 V AC 50/60 Hz (AC-3)	
	22 kW at 500 V AC 50/60 Hz (AC-3)	
	30 kW at 660690 V AC 50/60 Hz (AC-3)	
	9 kW at 400 V AC 50/60 Hz (AC-4)	
	18.5 kW at 380400 V AC 50/60 Hz (AC-3e)	
	11 kW at 220230 V AC 50/60 Hz (AC-3e)	
	22 kW at 415440 V AC 50/60 Hz (AC-3e)	
	22 kW at 500 V AC 50/60 Hz (AC-3e)	
	30 kW at 660690 V AC 50/60 Hz (AC-3e)	
Maximum Horse Power Rating	5 hp at 230/240 V AC 50/60 Hz for 1 phase motors	
	10 hp at 230/240 V AC 50/60 Hz for 3 phase motors	
	30 hp at 575/600 V AC 50/60 Hz for 3 phase motors	
	10 hp at 200/208 V AC 50/60 Hz for 3 phase motors	
	3 hp at 115 V AC 50/60 Hz for 1 phase motors	
	30 hp at 460/480 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	10 A (at 140 °F (60 °C)) for signalling circuit	
current	60 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 60947-5-1 800 A at 440 V for power circuit conforming to IEC 60947	
Rated breaking capacity	800 A at 440 V for power circuit conforming to IEC 60947	
[Icw] rated short-time withstand current	320 A 104 °F (40 °C) - 10 s for power circuit 720 A 104 °F (40 °C) - 1 s for power circuit 72 A 104 °F (40 °C) - 10 min for power circuit 165 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 80 A gG at <= 690 V coordination type 1 for power circuit 80 A gG at <= 690 V coordination type 2 for power circuit	
Average impedance	1.5 mOhm - Ith 60 A 50 Hz for power circuit	
Power dissipation per pole	2.4 W AC-3 5.4 W AC-1 2.4 W AC-3e	
[Ui] rated insulation voltage	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 Power circuit 690 V IEC 60947-4-1	
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	10 Mcycles	
Electrical durability	0.7 Mcycles 60 A AC-1 <= 440 V 1.5 Mcycles 40 A AC-3 <= 440 V 1.5 Mcycles 40 A AC-3e <= 440 V	
Control circuit type	DC standard	
Coil technology	Built-in bidirectional peak limiting diode suppressor	
Control circuit voltage limits	0.10.3 Uc (-40158 °F (-4070 °C)):drop-out DC 0.751.25 Uc (-40140 °F (-4060 °C)):operational DC 11.25 Uc (140158 °F (6070 °C)):operational DC	
Inrush power in W	19 W 68 °F (20 °C))	
Hold-in power consumption in W	W 7.4 W 68 °F (20 °C)	
Operating time	50 ±15 % ms closing 20 ±20 % ms opening	
Time constant	34 ms	
Maximum operating rate	3600 cyc/h at 60 °C	

Connections - terminals	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 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 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: EverLink BTR screw connectors 1 0.0020.05 in² (135 mm²) - cable	
	stiffness: flexible without cable end	
	Power circuit: EverLink BTR screw connectors 2 0.0020.04 in ² (125 mm ²) - cable stiffness: flexible without cable end	
	Power circuit: EverLink BTR screw connectors 1 0.0020.05 in² (135 mm²) - cable	
	stiffness: flexible with cable end	
	Power circuit: EverLink BTR screw connectors 2 0.0020.04 in ² (125 mm ²) - cable stiffness: flexible with cable end	
	Power circuit: EverLink BTR screw connectors 1 0.0020.05 in² (135 mm²) - cable	
	stiffness: solid without cable end	
	Power circuit: EverLink BTR screw connectors 2 0.0020.04 in ² (125 mm ²) - cable stiffness: solid without cable end	
Fightening 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 70.8 lbf.in (8 N.m) EverLink BTR screw connectors 0.040.05 in ² (25 35 mm ²) hexagonal 0.2 in (4 mm)	
	Power circuit 44.3 lbf.in (5 N.m) EverLink BTR screw connectors 0.0020.04 in ² (1	
	25 mm²) hexagonal 0.2 in (4 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	
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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		
Mounting Support	Plate Rail	
Environment		
Standards	EN 60947-4-1	
	EN 60947-5-1	
	IEC 60947-4-1 IEC 60947-5-1	
	CSA C22.2 No 14	
	UL 60947-4-1	
	IEC 60335-2-40:Annex JJ UL 60335-2-40:Annex JJ	
	IEC 60335-1:Clause 30.2	
Product Certifications	ccc	
	UL	
	CB Scheme CSA	
	CE	
	UKCA	
	Marine EAC	
P 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 10 Gn for 11 ms)	
Height	4.8 in (122 mm)	
Width	2.2 in (55 mm)	
Depth	4.7 in (120 mm)	
Product Weight	2.039 lb(US) (0.925 kg)	

Ordering and shipping details

Category	US10l1222358	
Discount Schedule	0112	
GTIN	3389118326743	
Returnability	No	
Country of origin	FR	

Packing Units

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	2.52 in (6.400 cm)	
Package 1 Width	5.39 in (13.700 cm)	
Package 1 Length	6.06 in (15.400 cm)	
Package 1 Weight	34.638 oz (982.000 g)	

Contractual warranty

Warranty 18 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)	65
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
China RoHS Regulation	China RoHS 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
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Take-back	No