

Contactor, Tesys Deca Advanced, 3P(3NO), AC-3/AC-3e, <=440V, 150A, 48-130V AC/DC coil,connector

LC1D150AEHE

Product availability: Stock - Normally stocked in distribution facility

## Main

Range	TeSys Deca	
Range of Product	TeSys Deca Advanced	
Product or Component Type	Contactor	
Device short name	LC1D	
Contactor application	Motor control Resistive load	
Utilisation category	AC-3 AC-3e AC-1 AC-4 DC-1 DC-3 DC-5	
Poles description	3P	
[Ue] rated operational voltage	Power circuit <= 1000 V AC 16.67400 Hz Power circuit <= 300 V DC	
[le] rated operational current	150 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 150 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit 200 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit	
[Uc] control circuit voltage	48130 V AC 50/60 Hz 48130 V DC	

## **Complementary**

Motor power kW	40 kW at 230 V AC 50/60 Hz (AC-3)
	75 kW at 400 V AC 50/60 Hz (AC-3)
	80 kW at 415 V AC 50/60 Hz (AC-3)
	90 kW at 440 V AC 50/60 Hz (AC-3)
	90 kW at 500 V AC 50/60 Hz (AC-3)
	100 kW at 690 V AC 50/60 Hz (AC-3)
	40 kW at 230 V AC 50/60 Hz (AC-3e)
	75 kW at 400 V AC 50/60 Hz (AC-3e)
	80 kW at 415 V AC 50/60 Hz (AC-3e)
	90 kW at 440 V AC 50/60 Hz (AC-3e)
	90 kW at 500 V AC 50/60 Hz (AC-3e)
	100 kW at 690 V AC 50/60 Hz (AC-3e)
	37 kW at 230 V AC 50/60 Hz (AC-4)
	75 kW at 400 V AC 50/60 Hz (AC-4)
	75 kW at 440 V AC 50/60 Hz (AC-4)
	75 kW at 500 V AC 50/60 Hz (AC-4)
	80 kW at 690 V AC 50/60 Hz (AC-4)
Maximum Horse Power Rating	40 hp at 200/208 V 60 Hz
	50 hp at 230/240 V 60 Hz
	100 hp at 460/480 V 60 Hz
	125 hp at 575/600 V 60 Hz
Compatibility code	LC1D

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

Pole contact composition	3 NO	
Protective cover	With	
[Ith] conventional free air thermal current	200 A (at 140 °F (60 °C)) for power circuit	
Irms rated making capacity	1885 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	1440 A at 440 V for power circuit conforming to IEC 60947	
[Icw] rated short-time withstand current	350 A 104 °F (40 °C) - 10 min for power circuit 600 A 104 °F (40 °C) - 1 min for power circuit 1280 A 104 °F (40 °C) - 10 s for power circuit 1800 A 104 °F (40 °C) - 10 s for power circuit 1800 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	160 A aM at <= 440 V for power circuit 125 A aM at <= 690 V for power circuit 250 A gG at <= 690 V for power circuit 10 A gG for signalling circuit 0.63 A gG for control circuit	
Average impedance	0.45 mOhm - Ith 200 A 50 Hz for power circuit	
Power dissipation per pole	8 W AC-3 8 W AC-3e 22 W AC-1	
[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	
	III	
Overvoltage category	III	
Overvoltage category pollution degree	3	
pollution degree [Uimp] rated impulse withstand	3	
pollution degree [Uimp] rated impulse withstand voltage	3  8 kV IEC 60947  B10d = 684932 cycles contactor with nominal load EN/ISO 13849-1	
pollution degree  [Uimp] rated impulse withstand voltage  Safety reliability level	3  8 kV IEC 60947  B10d = 684932 cycles contactor with nominal load EN/ISO 13849-1 B10d = 10000000 cycles contactor with mechanical load EN/ISO 13849-1	
pollution degree  [Uimp] rated impulse withstand voltage  Safety reliability level  Mechanical durability	3  8 kV IEC 60947  B10d = 684932 cycles contactor with nominal load EN/ISO 13849-1 B10d = 10000000 cycles contactor with mechanical load EN/ISO 13849-1  8 Mcycles  0.85 Mcycles 150 A AC-3 <= 440 V  0.85 Mcycles 150 A AC-3 << = 440 V	
pollution degree  [Uimp] rated impulse withstand voltage  Safety reliability level  Mechanical durability  Electrical durability	3  8 kV IEC 60947  B10d = 684932 cycles contactor with nominal load EN/ISO 13849-1 B10d = 10000000 cycles contactor with mechanical load EN/ISO 13849-1  8 Mcycles  0.85 Mcycles 150 A AC-3 <= 440 V 0.85 Mcycles 150 A AC-3e <= 440 V 0.5 Mcycles 200 A AC-1 <= 440 V  AC 50/60 Hz	
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pollution degree  [Uimp] rated impulse withstand voltage Safety reliability level  Mechanical durability  Electrical durability  Control circuit type  Coil technology	3  8 kV IEC 60947  B10d = 684932 cycles contactor with nominal load EN/ISO 13849-1 B10d = 10000000 cycles contactor with mechanical load EN/ISO 13849-1  8 Mcycles  0.85 Mcycles 150 A AC-3 <= 440 V 0.85 Mcycles 150 A AC-3 << = 440 V 0.5 Mcycles 200 A AC-1 <= 440 V  AC 50/60 Hz DC  Built-in bidirectional peak limiting diode suppressor  0.8 Uc Min1.1 Uc Max (-40140 °F (-4060 °C)):operational AC/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  8 kV IEC 60947  B10d = 684932 cycles contactor with nominal load EN/ISO 13849-1 B10d = 10000000 cycles contactor with mechanical load EN/ISO 13849-1  8 Mcycles  0.85 Mcycles 150 A AC-3 <= 440 V 0.85 Mcycles 150 A AC-3e <= 440 V 0.5 Mcycles 200 A AC-1 <= 440 V  AC 50/60 Hz DC  Built-in bidirectional peak limiting diode suppressor  0.8 Uc Min1.1 Uc Max (-40140 °F (-4060 °C)):operational AC/DC 0.1 Uc Max (-40140 °F (-4060 °C)):drop-out AC/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 VA	3  8 kV IEC 60947  B10d = 684932 cycles contactor with nominal load EN/ISO 13849-1 B10d = 10000000 cycles contactor with mechanical load EN/ISO 13849-1  8 Mcycles  0.85 Mcycles 150 A AC-3 <= 440 V 0.85 Mcycles 150 A AC-3e <= 440 V 0.5 Mcycles 200 A AC-1 <= 440 V  AC 50/60 Hz DC  Built-in bidirectional peak limiting diode suppressor  0.8 Uc Min1.1 Uc Max (-40140 °F (-4060 °C)):operational AC/DC 0.1 Uc Max (-40140 °F (-4060 °C)):drop-out AC/DC	
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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 VA  Inrush power in W  Hold-in power consumption in VA	3  8 kV IEC 60947  B10d = 684932 cycles contactor with nominal load EN/ISO 13849-1 B10d = 10000000 cycles contactor with mechanical load EN/ISO 13849-1  8 Mcycles  0.85 Mcycles 150 A AC-3 <= 440 V 0.85 Mcycles 150 A AC-3 <= 440 V 0.5 Mcycles 200 A AC-1 <= 440 V  AC 50/60 Hz DC  Built-in bidirectional peak limiting diode suppressor  0.8 Uc Min1.1 Uc Max (-40140 °F (-4060 °C)):operational AC/DC 0.1 Uc Max (-40140 °F (-4060 °C)):drop-out AC/DC  170 VA (at 68 °F (20 °C))  120 W 68 °F (20 °C))  7.5 VA (at 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 VA  Inrush power in W  Hold-in power consumption in VA  Hold-in power consumption in W	3  8 kV IEC 60947  B10d = 684932 cycles contactor with nominal load EN/ISO 13849-1 B10d = 10000000 cycles contactor with mechanical load EN/ISO 13849-1  8 Mcycles  0.85 Mcycles 150 A AC-3 <= 440 V 0.85 Mcycles 150 A AC-3e <= 440 V 0.5 Mcycles 200 A AC-1 <= 440 V  AC 50/60 Hz DC  Built-in bidirectional peak limiting diode suppressor  0.8 Uc Min1.1 Uc Max (-40140 °F (-4060 °C)):operational AC/DC 0.1 Uc Max (-40140 °F (-4060 °C)):drop-out AC/DC  170 VA (at 68 °F (20 °C))  7.5 VA (at 68 °F (20 °C))  5.1 W 68 °F (20 °C)	

Connections - terminals	Power circuit: connector 1 0.020.2 in² (10120 mm²) - cable stiffness: flexible without cable end	
	Power circuit: connector 2 0.020.08 in² (1050 mm²) - cable stiffness: flexible	
	without cable end	
	Power circuit: connector 1 0.020.2 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 0.020.2 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	
	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: 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: solid without cable end Control circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable	
	stiffness: solid without cable end	
Tightening torque	Power circuit 106.2 lbf.in (12 N.m) connector hexagonal 0.2 in (4 mm)	
	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	
	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2  Control circuit 15.05 lbf.in (1.7 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	16.67400 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	EN/IEC 60947-4-1	
	EN/IEC 60947-5-1	
	UL 60947-4-1 UL 60947-5-1	
	CSA C22.2 No 60947-4-1	
	CSA C22.2 No 60947-5-1	
	JIS C8201-4-1	
	JIS C8201-5-1	
	GB/T 14048.4 GB/T 14048.5	
Product Certifications	CB Scheme	
	CCC	
	cULus CE	
	UKCA	
	EU-RO-MR by DNV-GL	
IP degree of protection	IP20 front face IEC 60529	
Protective treatment	NoneIEC 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) operation 140158 °F (6070 °C) with derating	
	-76176 °F (-6080 °C) storage	
	. (	

Operating altitude	09842.52 ft (03000 m) without derating	
Fire resistance	1562 °F (850 °C) IEC 60695-2-11	
Mechanical robustness	Vibrations contactor open 2 Gn, 5300 Hz) IEC 60068-2-6 Vibrations contactor closed 4 Gn, 5300 Hz) IEC 60068-2-6 Shocks contactor open 10 Gn for 11 ms) IEC 60068-2-27 Shocks contactor closed 15 Gn for 11 ms) IEC 60068-2-27	
Height	6.0 in (152 mm)	
Width	3.8 in (97 mm)	
Depth	6.1 in (155 mm)	
Net Weight	5.3 lb(US) (2.4 kg)	

# Ordering and shipping details

Category	US10l1222359	
Discount Schedule	0112	
GTIN	3606486977040	
Returnability	Yes	
Country of origin	CN	

# **Packing Units**

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Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	7.44 in (18.9 cm)	
Package 1 Width	5.20 in (13.2 cm)	
Package 1 Length	7.17 in (18.2 cm)	
Package 1 Weight	5.75 lb(US) (2.61 kg)	
Unit Type of Package 2	S03	
Number of Units in Package 2	4	
Package 2 Height	11.81 in (30 cm)	
Package 2 Width	11.81 in (30 cm)	
Package 2 Length	15.75 in (40 cm)	
Package 2 Weight	24.1951 lb(US) (10.9747 kg)	
Unit Type of Package 3	S06	
Number of Units in Package 3	48	
Package 3 Height	28.94 in (73.5 cm)	
Package 3 Width	23.62 in (60 cm)	
Package 3 Length	31.50 in (80 cm)	
Package 3 Weight	306.1110 lb(US) (138.8495 kg)	



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)	2537
Environmental Disclosure	Product Environmental Profile

#### **Use Better**

Packaging made with recycled cardboard	No
Packaging without single use plastic	No
EU RoHS Directive	Compliant with Exemptions
SCIP Number	608af421-265e-4dfd-b0b3-1192c9364536
REACh Regulation	REACh Declaration
California proposition 65	WARNING: This product can expose you to chemicals including: Styrene, which is known to the State of California to cause cancer, and Bisphenol A (BPA), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
Halogen content performance	Halogen free plastic parts product

#### **Use Again**

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

## LC1D150AEHE

### **Technical Illustration**

### Assembly's dimensions





