Product data sheet

Specifications

TeSys Deca reversing contactor - 3P(3 NO) - AC-3 - <= 440 V 150 A - 24 V DC coil

LC2D150BD

To be discontinued on: Dec 31, 2026

To be discontinued

Product availability: Stock - Normally stocked in distribution facility

Main

Range	TeSys
product name	TeSys Deca
Product or Component Type	Reversing contactor
Device short name	LC2D
Contactor application	Motor control Resistive load
Utilisation category	AC-3 AC-1
Device presentation	Preassembled with reversing power busbar
Poles description	3P
power pole contact composition	3 NO
[Ue] rated operational voltage	Power circuit <= 1000 V AC 25...400 Hz Power circuit <= 300 V DC
[Ie] rated operational current	200 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 150 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit
Motor power kW	40 kW at 220...230 V AC 50 Hz 75 kW at 380...400 V AC 50 Hz 80 kW at 415...440 V AC 50 Hz 90 kW at 500 V AC 50 Hz 100 kW at 660...690 V AC 50 Hz 75 kW at 1000 V AC 50 Hz
motor power HP (UL / CSA)	40 hp at 200/208 V AC 60 Hz for 3 phase motors 50 hp at 230/240 V AC 60 Hz for 3 phase motors 100 hp at 460/480 V AC 60 Hz for 3 phase motors 125 hp at 575/600 V AC 60 Hz for 3 phase motors
Control circuit type	DC standard
[Uc] control circuit voltage	24 V DC
Auxiliary contact composition	1 NO + 1 NC
[Uimp] rated impulse withstand voltage	8 kV IEC 60947
Overvoltage category	III
[Ith] conventional free air thermal current	200 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 1660 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	1400 A at 440 V for power circuit conforming to IEC 60947

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

[Icw] rated short-time withstand current	250 A 104 °F (40 °C) - 10 min for power circuit 580 A 104 °F (40 °C) - 1 min for power circuit 1200 A 104 °F (40 °C) - 10 s for power circuit 1400 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	10 A gG for signalling circuit conforming to IEC 60947-5-1 315 A gG at <= 690 V coordination type 1 for power circuit 250 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	0.6 mOhm - Ith 200 A 50 Hz for power circuit
[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 1000 V IEC 60947-4-1
Electrical durability	0.85 Mcycles 150 A AC-3 <= 440 V 1 Mcycles 200 A AC-1 <= 440 V
Power dissipation per pole	24 W AC-1 13.5 W AC-3
Front cover	With
Interlocking type	Mechanical Electrical
Mounting Support	Rail Plate
Standards	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508
Product certifications	BV CCC CSA DNV GL RINA UL EAC UKCA
Connections - terminals	Control circuit screw clamp terminals 2 0.002…0.004 in² (1…2.5 mm²)flexible with cable end Control circuit screw clamp terminals 1 0.002…0.004 in² (1…2.5 mm²)flexible without cable end Control circuit screw clamp terminals 2 0.002…0.004 in² (1…2.5 mm²)flexible without cable end Control circuit screw clamp terminals 1 0.002…0.004 in² (1…2.5 mm²)flexible with cable end Control circuit screw clamp terminals 1 0.002…0.004 in² (1…2.5 mm²)solid without cable end Control circuit screw clamp terminals 2 0.002…0.004 in² (1…2.5 mm²)solid without cable end Power circuit connector 1 0.02…0.2 in² (10…120 mm²)flexible without cable end Power circuit connector 2 0.02…0.08 in² (10…50 mm²)flexible without cable end Power circuit connector 1 0.02…0.2 in² (10…120 mm²)flexible with cable end Power circuit connector 2 0.02…0.08 in² (10…50 mm²)flexible with cable end Power circuit connector 1 0.02…0.2 in² (10…120 mm²)solid without cable end Power circuit connector 2 0.02…0.08 in² (10…50 mm²)solid without cable end
Tightening torque	Control circuit 10.6 lbf.in (1.2 N.m) screw clamp terminals flat Ø 6 mm Control circuit 10.6 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 106.2 lbf.in (12 N.m) connector hexagonal 0.2 in (4 mm) Control circuit 10.6 lbf.in (1.2 N.m) screw clamp terminals pozidriv No 2
Operating time	20...35 ms closing 40...75 ms opening

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	8000000 cycles
Maximum operating rate	1200 cyc/h 140 °F (60 °C)

Complementary

Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.15...0.4 Uc (-40…158 °F (-40…70 °C)):drop-out DC 0.75...1.2 Uc (-40…131 °F (-40…55 °C)):operational DC 1...1.2 Uc (131…158 °F (55…70 °C)):operational DC
Time constant	25 ms
Inrush power in W	270…365 W 68 °F (20 °C)
Hold-in power consumption in W	2.4…5.1 W 68 °F (20 °C)
Auxiliary contacts type	Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1
Signalling circuit frequency	25...400 Hz
Minimum switching current	5 mA for signalling circuit
Minimum switching voltage	17 V 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
Insulation resistance	> 10 MOhm for signalling circuit

Environment

IP degree of protection	IP20 front face IEC 60529
Climatic withstand	IACS E10
Protective treatment	TH IEC 60068-2-30
pollution degree	3
Ambient air temperature for operation	-40…140 °F (-40…60 °C) 140…158 °F (60…70 °C) with derating
Ambient Air Temperature for Storage	-76…176 °F (-60…80 °C)
Operating altitude	0...9842.52 ft (0...3000 m)
Fire resistance	1562 °F (850 °C) IEC 60695-2-1
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Vibrations contactor open2 Gn, 5...300 Hz Vibrations contactor closed4 Gn, 5...300 Hz Shocks contactor closed15 Gn for 11 ms Shocks contactor open6 Gn for 11 ms
Height	6.2 in (158 mm)
Width	10.5 in (266 mm)
Depth	5.8 in (148 mm)
Net Weight	14.1 lb(US) (6.4 kg)

Ordering and shipping details

Category	US10I1222359
Discount Schedule	0I12
GTIN	3389118074989

Returnability	Yes
Country of origin	CZ

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	9.06 in (23.0 cm)
Package 1 Width	12.40 in (31.5 cm)
Package 1 Length	14.57 in (37.0 cm)
Package 1 Weight	14.3 lb(US) (6.5 kg)

Contractual warranty

Warranty	18 months

Environmental Data

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)	253
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 with Exemptions
SCIP Number	A530c666-91dd-4119-8d61-f1c22a361ecb
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

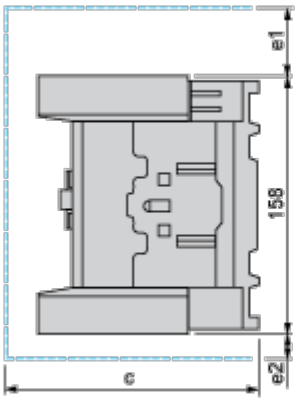
Use Again

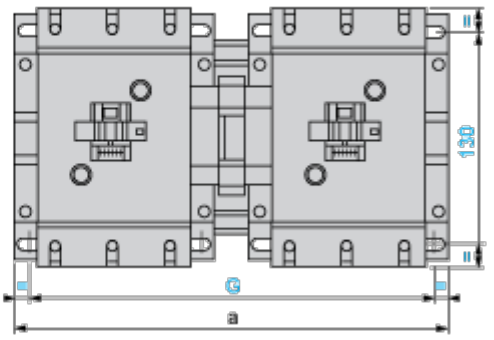
Repack and remanufacture

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

Dimensions Drawings

Dimensions

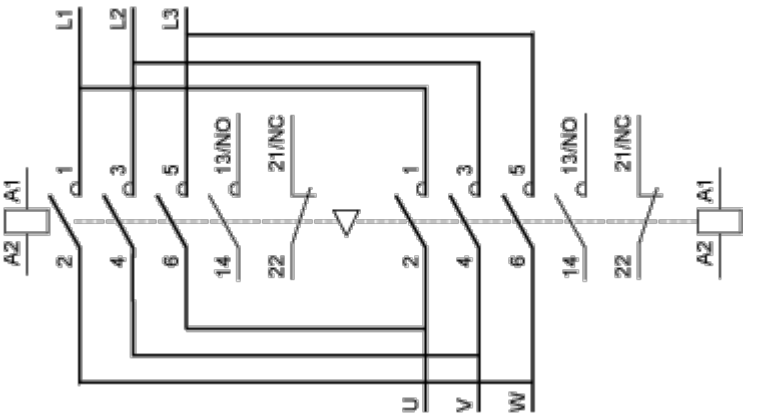




LC2 or 2 x LC1	a	c	e1	e2	G
D115 and D150	266	148	56	18	242/256
c, e1 and e2: including cabling.					

Connections and Schema

Wiring



Technical Illustration

Assembly's dimensions