

TeSys Deca reversing contactor - 3P(3 NO) - AC-3 - <= 440 V 65 A - 48 V AC coil

LC2D65AE7

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

Main

Range	TeSys TeSys Deca	
nroduct name	·	
product name	TeSys D TeSys Deca	
Product or Component Type	Reversing contactor	
Device short name	LC2D	
Contactor application	Resistive load	
	Motor control	
Utilisation category	AC-1	
	AC-3 AC-3e	
Device presentation	Preassembled with reversing power busbar	
Poles description	3P	
power pole contact composition	3 NO	
[Ue] rated operational voltage	Power circuit <= 690 V AC 25400 Hz	
	Power circuit <= 300 V DC	
[le] rated operational current	80 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit	
	65 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 65 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit	
Motor power kW	18.5 kW at 220230 V AC 50 Hz 30 kW at 380400 V AC 50 Hz	
	37 kW at 415440 V AC 50 Hz	
	37 kW at 500 V AC 50 Hz	
	37 kW at 660690 V AC 50 Hz	
motor power HP (UL / CSA)	40 hp at 460/480 V AC 60 Hz for 3 phase motors	
	5 hp at 115 V AC 60 Hz for 1 phase motors	
	10 hp at 230/240 V AC 60 Hz for 1 phase motors	
	20 hp at 200/208 V AC 60 Hz for 3 phase motors 20 hp at 230/240 V AC 60 Hz for 3 phase motors	
	50 hp at 575/600 V AC 60 Hz for 3 phase motors	
Control circuit type	AC 50/60 Hz	
[Uc] control circuit voltage	48 V AC 50/60 Hz	
Auxiliary contact composition	1 NO + 1 NC	
[Uimp] rated impulse withstand voltage	6 kV IEC 60947	
Overvoltage category	III	
[Ith] conventional free air thermal current	10 A (at 140 °F (60 °C)) for signalling circuit	
	80 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 1000 A at 440 V for power circuit conforming to IEC 60947	
	1000 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.

Rated breaking capacity	1000 A at 440 V for power circuit conforming to IEC 60947	
[lcw] rated short-time withstand		
current	520 A 104 °F (40 °C) - 10 s for power circuit 900 A 104 °F (40 °C) - 1 s for power circuit	
	110 A 104 °F (40 °C) - 10 min for power circuit	
	260 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	
	125 A gG at <= 690 V coordination type 1 for power circuit	
	125 A gG at <= 690 V coordination type 2 for power circuit	
Average impedance	1.5 mOhm - Ith 80 A 50 Hz for power circuit	
[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	
Electrical durability	1.45 Mcycles 65 A AC-3 <= 440 V	
	1.4 Mcycles 80 A AC-1 <= 440 V	
	1.45 Mcycles 65 A AC-3e <= 440 V	
Power dissipation per pole	9.6 W AC-1	
	6.3 W AC-3 6.3 W AC-3e	
Front cover	With	
Interlocking type	Mechanical	
Mounting Support	Plate	
3 - 44	Rail	
 Standards	004 000 0 N + 44	
Standards	CSA C22.2 No 14	
	EN 60947-4-1	
	EN 60947-5-1 IEC 60947-4-1	
	IEC 60947-4-1 IEC 60947-5-1	
	UL 508	
	IEC 60335-1	
Product Certifications	UL	
	CSA	
	RINA	
	GOST	
	CCC	
	DNV	
	LROS (Lloyds register of shipping)	
	GL BV	
	BV UKCA	
Connections - terminals		
oomiections - terminals	Control circuit screw clamp terminals 1 0.0020.006 in² (14 mm²)flexible without cable end	
	Control circuit screw clamp terminals 2 0.0020.006 in² (14 mm²)flexible without	
	cable end Control circuit screw clamp terminals 1,0,002, 0,006 in ² (1, 4 mm²\flexible with	
	Control circuit screw clamp terminals 1 0.0020.006 in ² (14 mm ²)flexible with cable end	
	Control circuit screw clamp terminals 2 0.0020.004 in² (12.5 mm²)flexible with	
	cable end Control circuit screw clamp terminals 1 0.0020.006 in² (14 mm²)solid	
	Control circuit screw clamp terminals 2 0.0020.006 in² (14 mm²)solid	
	Power circuit EverLink BTR screw connectors 1 0.0020.05 in² (135 mm²)flexible	
	without cable end Power circuit EverLink BTR screw connectors 2 0.0020.04 in² (125 mm²)flexible	
	without cable end	
	Power circuit EverLink BTR screw connectors 1 0.0020.05 in² (135 mm²)flexible with cable end	
	Power circuit EverLink BTR screw connectors 2 0.0020.04 in² (125 mm²)flexible	
	Power circuit EverLink BTR screw connectors 1 0.0020.03 iii (135 iiiii)solid	
	with cable end Power circuit EverLink BTR screw connectors 1 0.0020.05 in² (135 mm²)solid	

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 lidt 9 0 mm	
	Power circuit 70.8 lbf.in (8 N.m) EverLink BTR screw connectors 0.040.05 in² (25	
	35 mm²) 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	
Operating time	419 ms opening	
	1226 ms closing	
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	6 Mcycles	
Maximum operating rate	3600 cyc/h 140 °F (60 °C)	

Complementary

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	140 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C)) 160 VA 50 Hz cos phi 0.75 (at 68 °F (20 °C))	
Hold-in power consumption in VA	13 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) 15 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C))	
Heat dissipation	45 W 50/60 Hz	
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 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 IEC 60947-1 Annex Q category D	
Protective treatment	TH IEC 60068-2-30	
pollution degree	3	
Ambient air temperature for operation	-40140 °F (-4060 °C) 140158 °F (6070 °C) with derating	
Ambient Air Temperature for Storage	-76176 °F (-6080 °C)	
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 open2 Gn, 5300 Hz Vibrations contactor closed4 Gn, 5300 Hz Shocks contactor open10 Gn for 11 ms Shocks contactor closed15 Gn for 11 ms	

Height	4.8 in (122 mm)
Width	4.7 in (119 mm)
Depth	4.7 in (120 mm)
Net Weight	4.17 lb(US) (1.89 kg)

Ordering and shipping details

Category	US10l1222357	
Discount Schedule	0112	
GTIN	3389119409629	
Returnability	No	
Country of origin	FR	

Packing Units

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	5.51 in (14.000 cm)	
Package 1 Width	6.50 in (16.500 cm)	
Package 1 Length	7.68 in (19.500 cm)	
Package 1 Weight	4.594 lb(US) (2.084 kg)	
Unit Type of Package 2	S03	
Number of Units in Package 2	4	
Package 2 Height	11.81 in (30.000 cm)	
Package 2 Width	11.81 in (30.000 cm)	
Package 2 Length	15.75 in (40.000 cm)	
Package 2 Weight	19.390 lb(US) (8.795 kg)	

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 >

Carbon footprint (kg CO2 eq, Total Life cycle)	136
Environmental Disclosure	Product Environmental Profile

Use Better

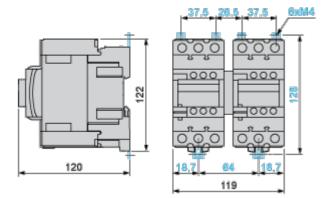
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant
REACh Regulation	REACh Declaration
California proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of 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	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

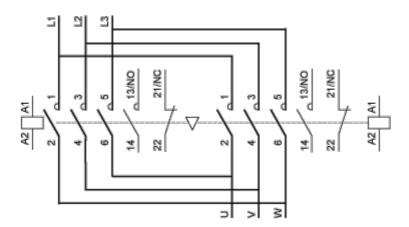
Dimensions Drawings

Dimensions



Connections and Schema

Wiring



Technical Illustration

Assembly's dimensions

