Product data sheet

Specifications

Green Premium



TeSys Deca reversing contactor -3 poles - AC-3 - 440 V 50 A - coil 110 V AC

LC2D50F7

() Discontinued on: Jul 12, 2021

① Discontinued

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 25400 Hz	
[le] rated operational current	50 A (at <131 °F (55 °C)) at <= 440 V AC AC-3 for power circuit 80 A (at <104.0000000000 °F (40 °C)) at <= 440 V AC AC-1 for power circuit	
Motor power kW	15 kW at 220230 V AC 50 Hz 22 kW at 380400 V AC 50 Hz 30 kW at 500 V AC 50 Hz 33 kW at 660690 V AC 50 Hz 25 kW at 415 V AC 50 Hz 30 kW at 440 V AC 50 Hz	
motor power HP (UL / CSA)	3 hp at 115 V AC 60 Hz for 1 phase motors 15 hp at 200/208 V AC 60 Hz for 3 phase motors 40 hp at 575600 V AC 60 Hz for 3 phase motors 40 hp at 460480 V AC 60 Hz for 3 phase motors 15 hp at 220240 V AC 60 Hz for 3 phase motors 7.5 hp at 230240 V AC 60 Hz for 1 phase motors	
Control circuit type	AC 50/60 Hz	
[Uc] control circuit voltage	110 V AC 50/60 Hz	
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	10 A (at 140 °F (60 °C)) for signalling 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 60947-5-1 900 A at 440 V for power circuit conforming to IEC 60947-4	
Rated breaking capacity	400 A at 690 V for power circuit conforming to IEC 60947 900 A at 220/415/440 V for power circuit conforming to IEC 60947 900 A at 500 V for power circuit conforming to IEC 60947	

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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

[lcw] rated short-time withstand current 100 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit 400 A 104 °F (40 °C) - 10 s for power circuit 810 A 104 °F (40 °C) - 10 min for power circuit 84 A 104 °F (40 °C) - 1 min for power circuit 208 A 104 °F (40 °C) - 1 min for power circuit		
Associated fuse rating	10 A gG for signalling circuit conforming to IEC 60947-5-1	
Average impedance	1.5 mOhm - Ith 60 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	1.4 Mcycles 80 A AC-1 <= 440 V 1.5 Mcycles 50 A AC-3 <= 440 V	
Power dissipation per pole	3.7 W AC-3 9.6 W AC-1	
Front cover	With	
Interlocking type	Mechanical	
Mounting Support	Plate Rail	
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	
Connections - terminals	Control circuit screw clamp terminals 1 0.0020.006 in ² (14 mm ²)flexible without cable end Control circuit screw clamp terminals 2 0.0020.006 in ² (14 mm ²)flexible without cable end 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 in ² (14 mm ²)flexible with cable end Control circuit screw clamp terminals 1 0.0020.006 in ² (14 mm ²)flexible with cable end Control circuit screw clamp terminals 2 0.0020.006 in ² (14 mm ²)solid without cable end Control circuit screw clamp terminals 2 0.0020.006 in ² (14 mm ²)solid without cable end Power circuit screw clamp terminals 1 0.0040.04 in ² (2.525 mm ²)flexible without cable end Power circuit screw clamp terminals 2 0.0040.02 in ² (2.516 mm ²)flexible without cable end Power circuit screw clamp terminals 1 0.0040.04 in ² (2.525 mm ²)flexible without cable end Power circuit screw clamp terminals 1 0.0040.04 in ² (2.525 mm ²)flexible without cable end Power circuit screw clamp terminals 1 0.0040.04 in ² (2.525 mm ²)flexible without cable end Power circuit screw clamp terminals 1 0.0040.02 in ² (2.516 mm ²)flexible with cable end Power circuit screw clamp terminals 2 0.0040.02 in ² (2.516 mm ²)solid without cable end Power circuit screw clamp terminals 1 0.0040.04 in ² (2.525 mm ²)solid without cable end Power circuit screw clamp terminals 2 0.0040.02 in ² (2.516 mm ²)solid without cable end	
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 Philips No 2 Power circuit 53.1 lbf.in (6 N.m) screw clamp terminals flat Ø 8 mm Power circuit 53.1 lbf.in (6 N.m) screw clamp terminals	
Operating time	2026 ms closing 812 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	1600000 cycles
Maximum operating rate	3600 cyc/h 131.000000000 °F (55 °C)

Complementary

Coil technology	Built-in bidirectional peak limiting diode suppressor	
Control circuit voltage limits	0.30.6 Uc -40158 °F (-4070 °C) drop-out AC 50/60 Hz 0.81.1 Uc -40131 °F (-4055 °C) operational AC 50 Hz 0.851.1 Uc -40131 °F (-4055 °C) operational AC 60 Hz 11.1 Uc 131158 °F (5570 °C) operational AC 50/60 Hz	
Inrush power in VA	200 VA 50 Hz 0.75 68.0000000000 °F (20 °C)) 220 VA 60 Hz 0.75 68.0000000000 °F (20 °C))	
Heat dissipation	610 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	
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	1760 °F (960 °C) IEC 60695-2-1	
Flame retardance	V1 conforming to UL 94	
Mechanical robustness	Vibrations contactor open2 Gn, 5300 Hz Shocks contactor closed10 Gn for 11 ms Shocks contactor open8 Gn for 11 ms Vibrations contactor closed3 Gn, 5300 Hz	
Height	5.000000000 in (127 mm)	
Width	6.5 in (165 mm)	
Depth	5.6 in (142 mm)	
Net Weight	5.3 lb(US) (2.4 kg)	

Ordering and shipping details

Category	22357-CTR,TESYS D,OPEN,40-65A AC	
Discount Schedule	112	
GTIN	3389110456639	

Returnability	No	
Country of origin	CZ	

Packing Units

-	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.5 in (19 cm)
Package 1 Width	7.5 in (19 cm)
Package 1 Length	9.8 in (25 cm)
Package 1 Weight	7.23 lb(US) (3.28 kg)

Contractual warranty

Warranty

18 months

Sustainability Screen

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance

Reach Free Of Svhc
Toxic Heavy Metal Free
Mercury Free
Rohs Exemption Information Yes
Pvc Free

Certifications & Standards

Eu Rohs Directive	Compliant	
	EU RoHS Declaration	
China Rohs Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)	
Environmental Disclosure	Product Environmental Profile	
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.	
Circularity Profile	End of Life Information	
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	