Product data sheet

Specification





TeSys Deca reversing contactor - 3P - <= 440 V - 50 A AC-3 - 24 V DC coil

LC2D50ABBE

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

Price*: 347.00 USD

Main

Range	TeSys TeSys Deca
Product name	TeSys Deca Tesys Deca green
Product or Component Type	Reversing contactor
Device short name	LC2D
contactor application	Resistive load Motor control
Utilisation category	AC-1 AC-3
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
[le] rated operational current	50 A (at <140 °F (60 °C)) at <= 440 V AC-3 for power circuit 80 A (at <140 °F (60 °C)) at <= 440 V AC-1 for power circuit
Motor power kW	15 kW at 220230 V AC 50 Hz 22 kW at 380400 V AC 50 Hz 25 kW at 415 V AC 50 Hz 30 kW at 440 V AC 50 Hz 30 kW at 500 V AC 50 Hz 33 kW at 660690 V AC 50 Hz
motor power HP (UL / CSA)	3 hp at 115 V AC 60 Hz for 1 phase motors 7.5 hp at 230/240 V AC 60 Hz for 1 phase motors 15 hp at 200/208 V AC 60 Hz for 3 phase motors 15 hp at 230/240 V AC 60 Hz for 3 phase motors 40 hp at 460/480 V AC 60 Hz for 3 phase motors 40 hp at 575/600 V AC 60 Hz for 3 phase motors
Control circuit type	DC DC low consumption
[Uc] control circuit voltage	24 V DC
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 60947-5-1 900 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	900 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	100 A - 1 s 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) - 1 s for power circuit 84 A 104 °F (40 °C) - 10 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
	100 A gG at <= 690 V coordination type 1 for power circuit
	100 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 Signalling circuit 690 V IEC 60947-1
Plantain at demand 1996.	
Electrical durability	1.8 Mcycles 42 A AC-3 <= 440 V 0.5 Mcycles 80 A AC-1 <= 440 V
Dannan dianimatian man mala	
Power dissipation per pole	3.7 W AC-3 9.6 W AC-1
Front cover	With
Interlocking type	Mechanical
Mounting Support	Rail
	Plate
Standards	EN/IEC 60947-4-1
	EN/IEC 60947-5-1
	UL 60947-4-1 CSA C22.2 No 60947-4-1
	IEC 60335-1
Product certifications	ccc
	CSA
	EAC
	UL
	KC
	DNV-GL LROS (Lloyds register of shipping)
	UKCA
Connections - 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 0.0020.006 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 serow clamp terminals 1.0.0020.006 in ² /14 mm ² /solid
	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
	with cable end
	Power circuit EverLink BTR screw connectors 1 0.0020.05 in² (135 mm²)solid Power circuit EverLink BTR screw connectors 2 0.0020.04 in² (125 mm²)solid
Fightening torque	Control circuit 15 05 lbf in (4.7 Nl m) corous clamp terminals flat (6.6 mm)
ngnoming wique	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 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 mm ²) hexagonal 0.2 in (4 mm)
	23 mm / nexagonal 0.2 m (4 mm)
Operating time	5565 ms closing
	20120 ms opening >= 17221) 2080 ms opening >= 18011)
	2000 iii3 opeiiiiig <= 100 i 1)

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	Built-in bidirectional peak limiting	
Control circuit voltage limits	<= 0.1 Uc -40158 °F (-4070 °C) drop-out DC 0.81.2 Uc -40140 °F (-4060 °C) operational DC 11.2 Uc 140158 °F (6070 °C) operational DC	
Inrush power in W	11 W 68 °F (20 °C)	
Hold-in power consumption in W	0.5 W 68 °F (20 °C)	
Heat dissipation 0.5 W		
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	tection 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)		
Nidth 4.7 in (119 mm)		
Depth	4.7 in (120 mm)	
Net Weight	4.771 lb(US) (2.164 kg)	
color Gray SE GREY 6) Green SE GREEN 2)		

Ordering and shipping details

Category US10I1222356

Discount Schedule	0112
GTIN	3606480988189
Returnability	No
Country of origin	FR

Packing Units

PCE	
1	
5.7 in (14.4 cm)	
6.4 in (16.2 cm)	
7.6 in (19.4 cm)	
t 5.227 lb(US) (2.371 kg)	
S03	
4	
11.8 in (30.0 cm)	
11.8 in (30.0 cm)	
15.7 in (40.0 cm)	
21.98 lb(US) (9.97 kg)	

Contractual warranty

Warranty 18 months



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Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

②	Mercury Free	
⊘	Rohs Exemption Information	Yes
	Halogen Free Plastic Parts & Cables Product	

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information.
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