Product data sheet

Specification





TeSys Deca changeover contactor - 4P(4 NO) - AC-1 - <= 440 V 25 A - 24 V DC coil

LC2DT25BD

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

Price*: 416.00 USD

Main

Range	TeSys TeSys Deca
Product name	TeSys Deca TeSys Deca
Product or Component Type	Changeover contactor
Device short name	LC2D
contactor application	Resistive load
Utilisation category	AC-1
device presentation	Preassembled, with prewired power connections
poles description	4P
power pole contact composition	4 NO
[Ue] rated operational voltage	Power circuit <= 690 V AC 25400 Hz Power circuit <= 300 V DC
[le] rated operational current	25 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit
Control circuit type	DC standard
[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 25 A (at 140 °F (60 °C)) for power circuit
Irms rated making capacity	250 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	250 A at 440 V for power circuit conforming to IEC 60947
[lcw] rated short-time withstand current	30 A 104 °F (40 °C) - 10 min for power circuit 61 A 104 °F (40 °C) - 1 min for power circuit 105 A 104 °F (40 °C) - 10 s for power circuit 210 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 40 A gG at <= 690 V coordination type 1 for power circuit 25 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	2.5 mOhm - Ith 25 A 50 Hz for power circuit

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

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
0.8 Mcycles 25 A AC-1 <= 690 V
1.56 W AC-1
With
Mechanical
Plate
Rail
CSA C22.2 No 60947-4-1
EN 60947-4-1
EN 60947-5-1
IEC 60947-4-1 IEC 60947-5-1
UL 60947-4-1
UL 60947-5-1
CSA C22.2 No 60947-5-1
GB/T 14048.4
UL
CSA
RINA
GOST
CCC
DNV
LROS (Lloyds register of shipping)
GL BV
UKCA
CB
Power circuit screw clamp terminals 1 0.000.01 in² (14 mm²)flexible without
cable end Power circuit screw clamp terminals 2 0.000.01 in² (14 mm²)flexible without
cable end
Power circuit screw clamp terminals 1 0.000.01 in² (14 mm²)flexible with cable end
Power circuit screw clamp terminals 2 0.000.00 in² (12.5 mm²)flexible with cable
end Power circuit serow clamp terminals 1,0,00, 0,01 in ² (1, 4 mm ²) solid
Power circuit screw clamp terminals 1 0.000.01 in² (14 mm²)solid Power circuit screw clamp terminals 2 0.000.01 in² (14 mm²)solid
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 (14 mm²) 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 0.000.01 in² (14 mm²)solid
Control circuit screw clamp terminals 1 0.000.01 in (14 mm²)solid
Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm
Power 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 flat \varnothing 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 pozidriv No 2 Power circuit 22.1 lbf.in (2.5 N.m) screw clamp terminals pozidriv No 2
53.5572.45 ms closing
1624 ms opening
B10d = 1369863 cycles contactor with nominal load FN/ISO 13849-1
B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
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Complementary

Coil technology	Built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.10.25 Uc -40140 °F (-4060 °C) drop-out DC 0.71.25 Uc -40140 °F (-4060 °C) operational DC
Time constant	28 ms
Inrush power in W	5.4 W 68 °F (20 °C))
Hold-in power consumption in W	5.4 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	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	3.3 in (85 mm)
Width	3.5 in (90 mm)
Depth	3.5 in (90 mm)
Net Weight	1.61 lb(US) (0.73 kg)

Ordering and shipping details

Category	US10l1222355
Discount Schedule	0112
GTIN	3389110247978
Returnability	No
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.5 in (11.4 cm)
Package 1 Width	4.5 in (11.4 cm)
Package 1 Length	5.4 in (13.7 cm)
Package 1 Weight	2.6 lb(US) (1.2 kg)
Unit Type of Package 2	S02
Number of Units in Package 2	5
Package 2 Height	5.9 in (15 cm)
Package 2 Width	11.8 in (30 cm)
Package 2 Length	15.7 in (40 cm)
Package 2 Weight	14.00 lb(US) (6.35 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
	Pvc Free	

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
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