



TeSys Deca changeover contactor - 4P(4 NO) - AC-1 - <= 440 V 20 A - 125 V DC coil

LC2DT20GD

! Discontinued on: Oct 8, 2021

(!) Discontinued

Main

Range	TeSys
Product name	TeSys Deca
Product or Component Type	Changeover contactor
Device short name	LC2D
contactor application	Resistive load
Utilisation category	AC-1 AC-3 AC-3e AC-4
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	20 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit
Control circuit type	DC standard
[Uc] control circuit voltage	125 V DC
Auxiliary contact composition	1 NO + 1 NC
[Uimp] rated impulse withstand voltage	6 kV IEC 60947
Overvoltage category	III
[lth] conventional free air thermal current	10 A (at 140 °F (60 °C)) for signalling circuit 20 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
[Icw] 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	25 A gG at <= 690 V coordination type 1 for power circuit 20 A gG at <= 690 V coordination type 2 for power circuit 10 A gG for signalling circuit conforming to IEC 60947-5-1
Average impedance	2.5 mOhm - Ith 20 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.

[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
Power dissipation per pole	1.56 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	GL
	CSA
	CCC
	LROS (Lloyds register of shipping)
	UL
	BV
	DNV
	GOST
	RINA
Connections - terminals	Power circuit screw clamp terminals 1 0.0020.006 in² (14 mm²)flexible without
	cable end
	Power circuit screw clamp terminals 2 0.0020.006 in ² (14 mm ²)flexible without
	cable end
	Power circuit screw clamp terminals 1 0.0020.006 in ² (14 mm ²)flexible with cable
	end Dower aircuit corow clown terminals 2.0.002 0.004 in 2/4 2.5 mm²\flovible with
	Power circuit screw clamp terminals 2 0.0020.004 in ² (12.5 mm ²)flexible with
	cable end
	Power circuit screw clamp terminals 1 0.0020.006 in² (14 mm²)solid Power circuit screw clamp terminals 2 0.0020.006 in² (14 mm²)solid
	Control circuit screw clamp terminals 2 0.0020.006 in ² (14 mm ²)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 in² (14 mm²)flexible with
	cable end Control circuit screw clamp terminals 2 0.0020.004 in ² (12.5 mm ²)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
Tightening torque	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 Ø 6 mm
	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2
Operating time	53.5572.45 ms closing
	1624 ms opening
Safety reliability level	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1
	B10d = 200000000 cycles contactor with mechanical load EN/ISO 13849-1
Mechanical durability	30 Mcycles
Maximum operating rate	3600 cyc/h 140 °F (60 °C)
y	State System in Control of Contro
Complementary	
	Duilt in hidirectional peak limiting diada suggested
Coil technology	Built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.10.25 Uc -40158 °F (-4070 °C) drop-out DC
	0.71.25 Uc -40140 °F (-4060 °C) operational DC
	11.25 Uc 140158 °F (6070 °C) operational DC
Time constant	28 ms
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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	22355-CTR,TESYS D,OPEN,9-38A DC	
Discount Schedule	l12	
GTIN	3389110321005	
Returnability	No	
Country of origin	FR	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.34 in (8.48 cm)
Package 1 Width	3.5 in (9 cm)
Package 1 Length	3.6 in (9.2 cm)

Package 1 Weight 25.7 oz (730 g)

Contractual warranty

Warranty 18 months



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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)
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
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