Product data sheet

Specification





Reversing contactor, TeSys Deca, 3P(3 NO), AC-3, 0 to 440V, 38A, 12VDC coil

LC2D38JD

! Discontinued on: Jan 23, 2021

① Discontinued

Main

Range	TeSys TeSys Deca	
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-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 <= 690 V AC 25400 Hz Power circuit <= 300 V DC	
[le] Rated Operational Current	50 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 38 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit	
Motor Power Kw	9 kW at 220230 V AC 50 Hz 18.5 kW at 380400 V AC 50 Hz 18.5 kW at 415440 V AC 50 Hz 18.5 kW at 500 V AC 50 Hz 18.5 kW at 660690 V AC 50 Hz	
Motor Power Hp (UI / Csa)	10 hp at 230/240 V AC 60 Hz for 3 phase motors 5 hp at 240 V AC 60 Hz for 1 phase motors 10 hp at 200/208 V AC 60 Hz for 3 phase motors 20 hp at 480 V AC 60 Hz for 3 phase motors 25 hp at 600 V AC 60 Hz for 3 phase motors	
Control Circuit Type	DC standard	
[Uc] Control Circuit Voltage	12 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 50 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 60947-5-1 550 A at 440 V for power circuit conforming to IEC 60947	
Rated Breaking Capacity	550 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.



[Icw] Rated Short-Time Withstand	60 A 104 °F (40 °C) - 10 min for power circuit
Current	430 A 104 °F (40 °C) - 1 s for power circuit
	150 A 104 °F (40 °C) - 1 min for power circuit
	310 A 104 °F (40 °C) - 10 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
	63 A gG at <= 690 V coordination type 1 for power circuit
	63 A gG at <= 690 V coordination type 2 for power circuit
Average Impedance	2 mOhm - Ith 50 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	1.4 Mcycles 50 A AC-1 <= 440 V 1.4 Mcycles 38 A AC-3 <= 440 V
Power Dissipation Per Pole	5 W AC-1
Tower bissipation Fer Fole	3 W AC-3
Front Cover With	
Interlocking Type	Mechanical
Mounting Support	Rail Plate
Standards	CSA C22.2 No 14
	EN 60947-4-1
	EN 60947-5-1
	IEC 60947-4-1 IEC 60947-5-1
	UL 508
	IEC 60335-1
Product Certifications	GL
	GOST
	CCC DNV
	RINA
	LROS (Lloyds register of shipping)
	BV
	UL CSA
Connections - Terminals	Control circuit screw clamp terminals 1 0.000.01 in² (14 mm²)flexible without
	cable end Control circuit screw clamp terminals 2 0.000.01 in² (14 mm²)flexible without
	cable end
	Control circuit screw clamp terminals 1 0.000.01 in² (14 mm²)flexible with cable end
	Control circuit screw clamp terminals 2 0.000.00 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 2 0.000.01 in² (14 mm²)solid Power circuit screw clamp terminals 1 0.000.02 in² (2.510 mm²)flexible without
	cable end Power circuit screw clamp terminals 2 0.000.02 in² (2.510 mm²)flexible without
	cable end
	Power circuit screw clamp terminals 1 0.000.02 in ² (110 mm ²)flexible with cable end
	Power circuit screw clamp terminals 2 0.000.01 in² (1.56 mm²)flexible with cable end
	Power circuit screw clamp terminals 1 0.000.02 in² (1.510 mm²)solid Power circuit screw clamp terminals 2 0.000.02 in² (2.510 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 Philips No 2
	Power circuit 22.13 lbf.in (2.5 N.m) screw clamp terminals flat Ø 6 mm Power circuit 22.13 lbf.in (2.5 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 22.13 lbf.in (2.5 N.m) screw clamp terminals pozidriv 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 = 20000000 cycles contactor with mechanical load EN/ISO 13849-1	
Mechanical Durability	y 30 Mcycles	
Maximum Operating Rate	3600 cyc/h 140 °F (60 °C)	

Complementary

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	
Inrush Power In W	5.4 W 68 °F (20 °C))	
Hold-In Power Consumption In W	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	ime 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	-rature For -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 closed15 Gn for 11 ms Shocks contactor open8 Gn for 11 ms	
Height	3.35 in (85 mm)	
Width	3.54 in (90 mm)	
Depth	3.98 in (101 mm)	
Net Weight	t Weight 2.51 lb(US) (1.137 kg)	

Ordering and shipping details

Category 22355-CTR,TESYS D,OPEN,9-38A DC	
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Discount Schedule	112	
Gtin	3389110393224	
Returnability	No	
Country Of Origin	FR	

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	4.29 in (10.9 cm)
Package 1 Width	4.49 in (11.4 cm)
Package 1 Length	4.65 in (11.8 cm)
Package 1 Weight	2.58 lb(US) (1.17 kg)

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

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