Product data sheet

Specifications





TeSys Deca reversing contactor - 3P(3 NO) - AC-3 - <= 440 V 32 A - 440 V AC coil

LC2D32R7

! Discontinued on: Oct 8, 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-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 Power circuit <= 300 V DC	
[le] Rated Operational Current	32 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 50 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit	
Motor Power Kw	7.5 kW at 220230 V AC 50 Hz 15 kW at 380400 V AC 50 Hz 15 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)	2 hp at 115 V AC 60 Hz for 1 phase motors 5 hp at 230/240 V AC 60 Hz for 1 phase motors 7.5 hp at 200/208 V AC 60 Hz for 3 phase motors 10 hp at 230/240 V AC 60 Hz for 3 phase motors 20 hp at 460/480 V AC 60 Hz for 3 phase motors 30 hp at 575/600 V AC 60 Hz for 3 phase motors	
Control Circuit Type	AC 50/60 Hz	
[Uc] Control Circuit Voltage	440 V AC 50/60 Hz	
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 °E (40 °C) - 10 min for power circuit
Current	60 A 104 °F (40 °C) - 10 min for power circuit 138 A 104 °F (40 °C) - 1 min for power circuit
	260 A 104 °F (40 °C) - 10 s for power circuit
	430 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
	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	1.65 Mcycles 32 A AC-3 <= 440 V
	1.4 Mcycles 50 A AC-1 <= 440 V
Power Dissipation Per Pole	2 W AC-3
	5 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
	RINA
	BV
	LROS (Lloyds register of shipping) CCC
	UL
	CSA
	GOST
	DNV
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
Operating Time	1222 ms closing
- p	419 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	15 Mcycles
Maximum Operating Rate	3600 cyc/h 140 °F (60 °C)

Complementary

Coil Technology	Without built-in suppressor module	
Control Circuit Voltage Limits	0.30.6 Uc -40158 °F (-4070 °C) drop-out AC 50/60 Hz 0.81.1 Uc -40140 °F (-4060 °C) operational AC 50 Hz 0.851.1 Uc -40140 °F (-4060 °C) operational AC 60 Hz 11.1 Uc 140158 °F (6070 °C) operational AC 50/60 Hz	
Inrush Power In Va	70 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C)) 70 VA 50 Hz cos phi 0.75 (at 68 °F (20 °C))	
Hold-In Power Consumption In Va	7.5 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) 7 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C))	
Heat Dissipation	23 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	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 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	3.62 in (92 mm)	
Net Weight	1.76 lb(US) (0.797 kg)	

Ordering and shipping details

Category 22354-CTR,TESYS D,OPEN,9-38A AC

Discount Schedule	112
Gtin	3389110391596
Returnability	No

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	28.75 oz (815 g)

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