Product datasheet

Specification





TeSys Deca reversing contactor - 3P(3 NO) - AC-3 - <= 440 V 40 A - coil 480 V AC 60 Hz

LC2D40AT7

! Discontinued on: 19-Oct-2020

! End-of-service on: 04-Nov-2020

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-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	40 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 60 A (at <60 °C) at <= 440 V AC AC-1 for power circuit	
Motor Power Kw	18.5 kW at 380400 V AC 50 Hz 11 kW at 220230 V AC 50 Hz 22 kW at 415440 V AC 50 Hz 22 kW at 500 V AC 50 Hz 30 kW at 660690 V AC 50 Hz	
Motor Power Hp (UI / Csa)	5 hp at 230/240 V AC 60 Hz for 1 phase motors 10 hp at 230/240 V AC 60 Hz for 3 phases motors 30 hp at 575/600 V AC 60 Hz for 3 phases motors 10 hp at 200/208 V AC 60 Hz for 3 phases motors 3 hp at 115 V AC 60 Hz for 1 phase motors 30 hp at 460/480 V AC 60 Hz for 3 phases motors	
Control Circuit Type	AC at 60 Hz	
[Uc] Control Circuit Voltage	480 V AC 60 Hz	
Auxiliary Contact Composition	1 NO + 1 NC	
[Uimp] Rated Impulse Withstand Voltage	6 kV conforming to IEC 60947	
Overvoltage Category	III	
[Ith] Conventional Free Air Thermal Current	10 A (at 60 °C) for signalling circuit 60 A (at 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 60947-5-1 800 A at 440 V for power circuit conforming to IEC 60947	
Rated Breaking Capacity	800 A at 440 V for power circuit conforming to IEC 60947	

[Icw] Rated Short-Time Withstand Current	72 A 40 °C - 10 min for power circuit 165 A 40 °C - 1 min for power circuit 320 A 40 °C - 10 s for power circuit 720 A 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 80 A gG at <= 690 V coordination type 1 for power circuit 80 A gG at <= 690 V coordination type 2 for power circuit	
Average Impedance	1.5 mOhm - Ith 60 A 50 Hz for power circuit	
[Ui] Rated Insulation Voltage	Power circuit: 690 V conforming to IEC 60947-4-1 Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Signalling circuit: 690 V conforming to IEC 60947-1 Signalling circuit: 600 V CSA certified Signalling circuit: 600 V UL certified	
Electrical Durability	1.5 Mcycles 40 A AC-3 at Ue <= 440 V 1.4 Mcycles 60 A AC-1 at Ue <= 440 V	
Power Dissipation Per Pole	2.4 W AC-3 5.4 W AC-1	
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	
Product Certifications	UL CCC CSA GOST	
Connections - Terminals	Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²solid Control circuit: screw clamp terminals 2 cable(s) 14 mm²solid Power circuit: EverLink BTR screw connectors 1 cable(s) 135 mm²flexible without cable end Power circuit: EverLink BTR screw connectors 2 cable(s) 125 mm²flexible without cable end Power circuit: EverLink BTR screw connectors 1 cable(s) 135 mm²flexible with cable end Power circuit: EverLink BTR screw connectors 2 cable(s) 125 mm²flexible with cable end Power circuit: EverLink BTR screw connectors 2 cable(s) 135 mm²flexible with cable end Power circuit: EverLink BTR screw connectors 1 cable(s) 135 mm²solid Power circuit: EverLink BTR screw connectors 2 cable(s) 135 mm²solid	
Tightening Torque	Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 8 N.m - on EverLink BTR screw connectors - cable 2535 mm² hexagonal screw head 4 mm Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 125 mm² hexagonal screw head 4 mm	
Operating Time	419 ms opening 1226 ms closing	
Safety Reliability Level	B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1	
Mechanical Durability	6 Mcycles	
Maximum Operating Rate	3600 cyc/h 60 °C	

Complementary

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Coil Technology	Without built-in suppressor module	
Control Circuit Voltage Limits	0.30.6 Uc (-4070 °C):drop-out AC 60 Hz 0.851.1 Uc (-4060 °C):operational AC 60 Hz 11.1 Uc (6070 °C):operational AC 60 Hz	
Inrush Power In Va	140 VA 60 Hz cos phi 0.75 (at 20 °C)	
Hold-In Power Consumption In Va	13 VA 60 Hz cos phi 0.3 (at 20 °C)	
Heat Dissipation	45 W at 60 Hz	
Auxiliary Contacts Type	type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to 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 conforming to IEC 60529	
Climatic Withstand	conforming to IACS E10 conforming to IEC 60947-1 Annex Q category D	
Protective Treatment	TH conforming to IEC 60068-2-30	
Pollution Degree	ion Degree 3	
Ambient Air Temperature For Operation	-4060 °C 6070 °C with derating	
Ambient Air Temperature For Storage	-6080 °C	
Operating Altitude	03000 m	
Fire Resistance	850 °C conforming to IEC 60695-2-1	
Flame Retardance	V1 conforming to UL 94	
Mechanical Robustness	Vibrations contactor open: 2 Gn, 5300 Hz Vibrations contactor closed: 4 Gn, 5300 Hz Shocks contactor open: 10 Gn for 11 ms Shocks contactor closed: 15 Gn for 11 ms	
Height	122 mm	
Width	119 mm	
Depth	120 mm	
Net Weight	et Weight 1.87 kg	

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	14 cm
Package 1 Width	16.2 cm
Package 1 Length	19.8 cm
Package 1 Weight	2.1 kg

Contractual warranty

Warranty

18 months

25-Apr-2024



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Transparency RoHS/REACh

Well-being performance

⊘	Reach Free Of Svhc	
⊘	Toxic Heavy Metal Free	
⊘	Mercury Free	
⊘	Rohs Exemption Information Ye	s
9	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