Product datasheet

Specification





TeSys Deca reversing contactor - 3P(3 NO) - AC-3 - <= 440 V 40 A - 110 V DC coil

LC2D40AFD

! Discontinued on: 10-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	DC standard	
[Uc] Control Circuit Voltage	110 V DC	
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	1 Free Air 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	

[lcw] Rated Short-Time Withstand Current	72 A 40 °C - 10 min for power circuit
Surrent	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
verage 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 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
	0.7 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	GOST
	CSA
	CCC UL
Connections - Terminals	Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end
Commodation Communication	Control circuit: screw clamp terminals 1 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: Evert ink RTP screw connectors 1 cable(s) 1 35 mm²flevible with
	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 1 cable(s) 135 mm²solid Power circuit: EverLink BTR screw connectors 2 cable(s) 125 mm²solid
Fightening 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 hat 9 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 mm ²
	hexagonal screw head 4 mm
	Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 125 mm² hexagonal screw head 4 mm
Onerating Time	
Operating Time	1624 ms opening 42.557.5 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
Machanical Durchiller	13849-1
Mechanical Durability	10 Mcycles
Maximum Operating Rate	3600 cyc/h 60 °C

Complementary

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Coil Technology	Built-in bidirectional peak limiting diode suppressor	
Control Circuit Voltage Limits	0.10.3 Uc (-4070 °C):drop-out DC 0.751.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC	
Time Constant	34 ms	
Inrush Power In W	19 W (at 20 °C)	
Hold-In Power Consumption In W	7.4 W at 20 °C	
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	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	2.02 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