Product datasheet





reversing contactor TeSys LC2-D -3 poles - AC-3 - 440 V 50 A - coil 220 V AC

LC2D50M7

! Discontinued on: 01-Nov-2020

! Discontinued

Main

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Range	TeSys	
Product Name	TeSys D	
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: <= 1000 V AC 25400 Hz	
[le] Rated Operational Current	50 A (at <55 °C) at <= 440 V AC AC-3 for power circuit	
	80 A (at <40 °C) at <= 440 V AC AC-1 for power circuit	
Motor Power Kw	15 kW at 220230 V AC 50 Hz	
	22 kW at 380400 V AC 50 Hz	
	30 kW at 500 V AC 50 Hz	
	33 kW at 660690 V AC 50 Hz	
	25 kW at 415 V AC 50 Hz	
	30 kW at 440 V AC 50 Hz	
Motor Power Hp (UI / Csa)	3 hp at 115 V AC 60 Hz for 1 phase motors	
	15 hp at 200/208 V AC 60 Hz for 3 phases motors	
	40 hp at 575600 V AC 60 Hz for 3 phases motors	
	40 hp at 460480 V AC 60 Hz for 3 phases motors	
	15 hp at 220240 V AC 60 Hz for 3 phases motors	
	7.5 hp at 230240 V AC 60 Hz for 1 phase motors	
Control Circuit Type	AC at 50/60 Hz	
[Uc] Control Circuit Voltage	220 V AC 50/60 Hz	
Auxiliary Contact Composition	1 NO + 1 NC	
[Uimp] Rated Impulse Withstand	8 kV conforming to IEC 60947	
Voltage Overvoltage Category	III	
	···	
[Ith] Conventional Free Air Thermal Current	10 A (at 60 °C) for signalling 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	
	900 A at 440 V for power circuit conforming to IEC 60947-4	
Dated Breaking Courselly	400 4 (400) (6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Rated Breaking Capacity	400 A at 690 V for power circuit conforming to IEC 60947 900 A at 220/415/440 V for power circuit conforming to IEC 60947	
	900 A at 520/415/440 V for power circuit conforming to IEC 60947	
	500 A at 500 V for power circuit comorning to IEC 00347	

[Icw] Rated Short-Time Withstand Current	100 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit 400 A 40 °C - 10 s for power circuit 810 A 40 °C - 1 s for power circuit
	84 A 40 °C - 10 min for power circuit
	208 A 40 °C - 1 min for power circuit
Associated Fuse Rating	10 A gG for signalling circuit conforming to IEC 60947-5-1
Average Impedance	1.5 mOhm - Ith 60 A 50 Hz for power circuit
[Ui] Rated Insulation Voltage	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
	Power circuit: 1000 V conforming to IEC 60947-4-1
Electrical Durability	1.4 Mcycles 80 A AC-1 at Ue <= 440 V
	1.5 Mcycles 50 A AC-3 at Ue <= 440 V
Power Dissipation Per Pole	3.7 W AC-3
	9.6 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	BV
	CCC
	CSA
	DNV GL
	RINA
	UL
	EAC
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 without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²solid without cable end Power circuit: screw clamp terminals 1 cable(s) 2.525 mm²flexible without cable
	end Power circuit: screw clamp terminals 2 cable(s) 2.516 mm²flexible without cable
	end
	Power circuit: screw clamp terminals 1 cable(s) 2.525 mm²flexible with cable end Power circuit: screw clamp terminals 2 cable(s) 2.510 mm²flexible with cable end
	Power circuit: screw clamp terminals 1 cable(s) 2.525 mm ² solid without cable end Power circuit: screw clamp terminals 2 cable(s) 2.516 mm ² solid without cable end
Tightening Torque	Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm
3	Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 6 N.m - on screw clamp terminals - with screwdriver flat Ø 8 mm Power circuit: 6 N.m - on screw clamp terminals
Operating Time	2026 ms closing 812 ms opening
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	16000000 cycles
Maximum Operating Rate	3600 cyc/h 55 °C

Complementary

Coil Technology	Built-in bidirectional peak limiting diode suppressor	
Control Circuit Voltage Limits	0.30.6 Uc (-4070 °C):drop-out AC 50/60 Hz 0.81.1 Uc (-4055 °C):operational AC 50 Hz 0.851.1 Uc (-4055 °C):operational AC 60 Hz 11.1 Uc (5570 °C):operational AC 50/60 Hz	
Inrush Power In Va	200 VA 50 Hz cos phi 0.75 (at 20 °C) 220 VA 60 Hz cos phi 0.75 (at 20 °C)	
Heat Dissipation	610 W at 50/60 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	
Protective Treatment	TH conforming to IEC 60068-2-30	
Pollution 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	960 °C conforming to IEC 60695-2-1	
Flame Retardance	V1 conforming to UL 94	
Mechanical Robustness	Vibrations contactor open: 2 Gn, 5300 Hz Shocks contactor closed: 10 Gn for 11 ms Shocks contactor open: 8 Gn for 11 ms Vibrations contactor closed: 3 Gn, 5300 Hz	
Height	127 mm	
Width	165 mm	
Depth	142 mm	
Net Weight	2.4 kg	



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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