

TeSys D reversing contactor - 3P(3 NO) - AC-3 - <= 440 V 9 A - 440 V DC coil

LC2D093RD

① Discontinued

Main

Walli		
Range	TeSys	
Product Name	TeSys D	
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	9 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 16 A (at <60 °C) at <= 440 V AC AC-1 for power circuit	
Motor Power Kw	2.2 kW at 220230 V AC 50 Hz 4 kW at 380400 V AC 50 Hz 4 kW at 415440 V AC 50 Hz 5.5 kW at 500 V AC 50 Hz 5.5 kW at 660690 V AC 50 Hz	
Motor Power Hp (UI / Csa)	0.5 hp at 115 V AC 60 Hz for 1 phase motors 1 hp at 230/240 V AC 60 Hz for 1 phase motors 2 hp at 200/208 V AC 60 Hz for 3 phases motors 2 hp at 230/240 V AC 60 Hz for 3 phases motors 5 hp at 460/480 V AC 60 Hz for 3 phases motors 7.5 hp at 575/600 V AC 60 Hz for 3 phases motors	
Control Circuit Type	DC standard	
[Uc] Control Circuit Voltage	440 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	16 A (at 60 °C) for power circuit 10 A (at 60 °C) for signalling circuit	
Irms Rated Making Capacity	250 A at 440 V for power circuit conforming to IEC 60947 140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1	
Rated Breaking Capacity	250 A at 440 V for power circuit conforming to IEC 60947	

[Icw] Rated Short-Time Withstand Current	30 A 40 °C - 10 min for power circuit 61 A 40 °C - 1 min for power circuit 105 A 40 °C - 10 s for power circuit 210 A 40 °C - 1 s for power circuit 210 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	25 A gG at <= 690 V coordination type 1 for power circuit 20 A gG at <= 690 V coordination type 2 for power circuit 10 A gG for signalling circuit conforming to IEC 60947-5-1
Average Impedance	2.5 mOhm - Ith 16 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: 600 V conforming to IEC 60947-1 Signalling circuit: 600 V CSA certified Signalling circuit: 600 V UL certified
Electrical Durability	0.6 Mcycles 25 A AC-1 at Ue <= 440 V 2 Mcycles 9 A AC-3 at Ue <= 440 V
Power Dissipation Per Pole	0.2 W AC-3 1.56 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 GL CSA CCC DNV LROS (Lloyds register of shipping) GOST RINA UL
Connections - Terminals	Power circuit: spring terminals 1 cable(s) 2.5 mm²flexible without cable end Power circuit: spring terminals 2 cable(s) 2.5 mm²flexible without cable end Control circuit: spring terminals 1 cable(s) 2.5 mm²flexible without cable end Control circuit: spring terminals 2 cable(s) 2.5 mm²flexible without cable end
Operating Time	53.5572.45 ms closing 1624 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	30 Mcycles
Maximum Operating Rate	3600 cyc/h 60 °C
Complementary	
Coil Technology	Built-in bidirectional peak limiting diode suppressor
Control Circuit Voltage Limits	0.10.25 Uc (-4070 °C):drop-out DC 0.71.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC
Time Constant	28 ms
Inrush Power In W	5.4 W (at 20 °C)

Hold-In Power Consumption In W	5.4 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	
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	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	99 mm	
Width	90 mm	
Depth	95 mm	
Net Weight	1.017 kg	

Contractual warranty

Warranty 18 months

Sustainability

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Well-being performance

Reach Free	e Of Svhc	
Toxic Heav	y Metal Free	
Mercury Fr	ee	
Rohs Exem	nption Information	Yes
Pvc Free		
Eu Rohs Directi	ve	Compliant
		EU RoHS Declaration
China Rohs Reg	gulation	China RoHS declaration
		Pro-active China RoHS declaration (out of China RoHS legal scope)