LC2D150G7 **REVERSING CONTACTOR 575VAC 150A IEC**



Main

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Range of product	TeSys D	dio
Range	TeSys	;
Product name	TeSys D	
Product or component type	Reversing contactor	
Device short name	LC2D	
Contactor application	Resistive load	4
	Motor control	<u>ہ</u>
Utilisation category	AC-3 AC-1	
Device presentation	Preassembled with reversing power busbar	
Poles description	3P	
Pole contact composition	3 NO	
[Ue] rated operational voltage	<= 300 V DC for power circuit <= 1000 V AC 25400 Hz for power circuit	
[le] rated operational current	200 A (<= 60 °C) at <= 440 V AC AC-1 for power circuit 150 A (<= 60 °C) at <= 440 V AC AC-3 for power circuit	0
Motor power kW	100 kW at 660690 V AC 50/60 Hz 40 kW at 220230 V AC 50/60 Hz 75 kW at 1000 V AC 50/60 Hz 75 kW at 380400 V AC 50/60 Hz 90 kW at 500 V AC 50/60 Hz 80 kW at 415440 V AC 50/60 Hz	Diandianese This designeed and substitute for and is and to be used for deterministic and the constitution for another for another and the constitution for another and the constitution for another another another another and the constitution for another an
Motor power hp	40 hp at 200/208 V AC 50/60 Hz for 3 phases motors 50 hp at 230/240 V AC 50/60 Hz for 3 phases motors 100 hp at 460/480 V AC 50/60 Hz for 3 phases motors 125 hp at 575/600 V AC 50/60 Hz for 3 phases motors	
Control circuit type	AC 50/60 Hz	
[Uc] control circuit voltage	120 V AC 50/60 Hz	
Auxiliary contact composition	1 NO + 1 NC	
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947	;
Overvoltage category	III	
[Ith] conventional free air thermal current	200 A at <= 60 °C for power circuit	

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Irms rated making capacity	1660 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	1400 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	100 A 1 s signalling circuit 120 A 500 ms signalling circuit 140 A 100 ms signalling circuit 250 A <= 40 °C 10 min power circuit 580 A <= 40 °C 1 min power circuit 1200 A <= 40 °C 1 s power circuit 1400 A <= 40 °C 1 s power circuit
Associated fuse rating	250 A gG at <= 690 V coordination type 2 for power circuit 315 A gG at <= 690 V coordination type 1 for power circuit 10 A gG for signalling circuit conforming to IEC 60947-5-1
Average impedance	0.6 mOhm at 50 Hz - Ith 200 A for power circuit
[Ui] rated insulation voltage	1000 V for power circuit conforming to IEC 60947-4-1 600 V for power circuit certifications CSA 600 V for power circuit certifications UL 690 V for signalling circuit conforming to IEC 60947-1 600 V for signalling circuit certifications CSA 600 V for signalling circuit certifications UL
Electrical durability	0.85 Mcycles 150 A AC-3 <= 440 V 1 Mcycles 200 A AC-1 <= 440 V
Power dissipation per pole	24 W AC-1 13.5 W AC-3
Protective cover	With
Interlocking type	Electrical 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	UL CSA CCC EAC GL BV DNV RINA
Connections - terminals	Control circuit : screw clamp terminals 2 cable(s) 12.5 mm ² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 2 cable(s) 12.5 mm ² - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 2 cable(s) 12.5 mm ² - cable stiffness: solid - without cable end Control circuit : screw clamp terminals 1 cable(s) 12.5 mm ² - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 1 cable(s) 12.5 mm ² - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 1 cable(s) 12.5 mm ² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 1 cable(s) 12.5 mm ² - cable stiffness: solid - without cable end Power circuit : screw clamp terminals 1 cable(s) 12.5 mm ² - cable stiffness: solid - without cable end Power circuit : connector 1 cable(s) 10120 mm ² - cable stiffness: flexible - without cable end Power circuit : connector 1 cable(s) 10120 mm ² - cable stiffness: flexible - without cable end Power circuit : connector 1 cable(s) 10120 mm ² - cable stiffness: flexible - without cable end Power circuit : connector 1 cable(s) 10120 mm ² - cable stiffness: flexible - with cable end Power circuit : connector 1 cable(s) 10120 mm ² - cable stiffness: flexible - with cable end Power circuit : connector 1 cable(s) 1050 mm ² - cable stiffness: flexible - with cable end Power circuit : connector 1 cable(s) 1050 mm ² - cable stiffness: solid - without cable end Power circuit : connector 1 cable(s) 10120 mm ² - cable stiffness: solid - without cable end Power circuit : connector 1 cable(s) 1050 mm ² - cable stiffness: solid - without cable end Power circuit : connector 1 cable(s) 1050 mm ² - cable stiffness: solid - without cable end Power circuit : connector 2 cable(s) 1050 mm ² - cable stiffness: solid - without cable end Power circuit : connector 2 cable(s) 1050 mm ² - cable stiffness: solid - without cable
Tightening torque	Control circuit : 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit : 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit : 12 N.m - on connector hexagonal 4 mm
Operating time	2035 ms closing 4075 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	8000000 cycles
Operating rate	1200 cyc/h at <= 60 °C

Complementary

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Coil technology	Built-in bidirectional peak limiting diode suppressor	
Control circuit voltage limits	0.30.5 Uc drop-out at 55 °C, AC 50/60 Hz 0.81.15 Uc operational at 55 °C, AC 50/60 Hz	
Inrush power in VA	280350 VA at 20 °C (cos φ 0.9) 60 Hz 280350 VA at 20 °C (cos φ 0.9) 50 Hz	
Hold-in power consumption in VA	218 VA at 20 °C (cos φ 0.9) 60 Hz 218 VA at 20 °C (cos φ 0.9) 50 Hz	
Heat dissipation	34.5 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	-560 °C
Ambient air temperature for storage	-6080 °C
Permissible ambient air temperature around the device	-4070 °C at Uc
Operating altitude	3000 m without derating in temperature
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 closed 15 Gn for 11 ms Shocks contactor open 6 Gn for 11 ms
Height	158 mm
Width	266 mm
Depth	148 mm
Product weight	6.4 kg

Contractual warranty	
Warranty period	18 months