Product data sheet Characteristics

LC2D95F7 TeSys D reversing contactor - 3P(3 NO) - AC-3 - <= 440 V 95 A - 110 V AC coil



Main	
Commercial Status	Commercialised
Range of product	TeSys D
Product or component type	Reversing contactor
Device short name	LC2D
Contactor application	Motor control Resistive load
Utilisation category	AC-1 AC-3
Device presentation	Preassembled with reversing power busbar
Poles description	3P
Power 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	95 A (<= 60 °C) at <= 440 V AC AC-3 for power cir- cuit 125 A (<= 60 °C) at <= 440 V AC AC-1 for power cir- cuit
Motor power kW	45 kW at 380400 V AC 50/60 Hz 25 kW at 220230 V AC 50/60 Hz 45 kW at 1000 V AC 50/60 Hz 45 kW at 660690 V AC 50/60 Hz 55 kW at 500 V AC 50/60 Hz 45 kW at 415440 V AC 50/60 Hz
Motor power HP (UL / CSA)	60 hp at 575/600 V AC 50/60 Hz for 3 phases mo- tors 60 hp at 460/480 V AC 50/60 Hz for 3 phases mo- tors 25 hp at 230/240 V AC 50/60 Hz for 3 phases mo- tors 15 hp at 230/240 V AC 50/60 Hz for 1 phase motors 7.5 hp at 115 V AC 50/60 Hz for 1 phase motors 20 hp at 200/208 V AC 50/60 Hz for 3 phases mo- tors
Control circuit type	AC 50/60 Hz
Control circuit voltage	110 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	125 A at <= 60 °C for power circuit 10 A at <= 60 °C for signalling circuit
Irms rated making capacity	1100 A at 440 V for power circuit conforming to IEC 60947 250 A DC for signalling circuit conforming to IEC 60947-5-1 140 A AC for signalling circuit conforming to IEC 60947-5-1
Rated breaking capac- ity	1100 A at 440 V for power circuit conforming to IEC 60947

1100 A <= 40 °C 1 s power circuit 800 A <= 40 °C 10 s power circuit

400 A <= 40 °C 1 min power circuit 135 A <= 40 °C 10 min power circuit 140 A 100 ms signalling circuit 120 A 500 ms signalling circuit 100 A 1 s signalling circuit The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products for submined herein. This documentation is not intended as a substitute for and is not to be used for determining substitity or reliability of these products for specific use applications. It is the ducty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products for specific user applications. Neither Schneider Electric Inductive SAS nor any of its affiliates or substitiantes shall be responsible or liable for misues of the information contrained herein.



[Icw] rated short-time

withstand current

Associated fuse rating	160 A gG at <= 690 V coordination type 2 for power circuit 200 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	0.80 mOhm at 50 Hz - Ith 125 A for power circuit
[Ui] rated insulation voltage	1000 V for power circuit conforming to IEC 60947-4-1 600 V for signalling circuit certifications UL 600 V for signalling circuit certifications CSA 690 V for signalling circuit conforming to IEC 60947-1 600 V for power circuit certifications UL 600 V for power circuit certifications CSA
Electrical durability	1.3 Mcycles 125 A AC-1 at Ue <= 440 V 1.2 Mcycles 95 A AC-3 at Ue <= 440 V
Power dissipation per pole	7.2 W AC-3 12.5 W AC-1
Safety cover	With
Interlocking type	Mechanical
Mounting support	Plate Rail
Standards	EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 CSA C22.2 No 14
Product certifications	BV CCC DNV GL GOST RINA LROS
Connections - terminals	Power circuit: connector 2 cable(s) 425 mm ² - ca- ble stiffness: solid - without cable end Power circuit: connector 1 cable(s) 450 mm ² - ca- ble stiffness: solid - without cable end Power circuit: connector 2 cable(s) 416 mm ² - ca- ble stiffness: flexible - with cable end Power circuit: connector 1 cable(s) 450 mm ² - ca- ble stiffness: flexible - with cable end Power circuit: connector 2 cable(s) 425 mm ² - ca- ble stiffness: flexible - without cable end Power circuit: connector 1 cable(s) 450 mm ² - ca- ble stiffness: flexible - without 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 2 cable(s) 14 mm ² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm ² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm ² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm ² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm ² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm ² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm ² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm ² - cable stiffness: flexible - without cable end
Tightening torque	Power circuit: 9 N.m - on connector hexagonal 4 mm Power circuit: 9 N.m - on connector - with screwdriver er flat Ø 6 to Ø 8 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2 Control circuit: 1.2 N.m - on screw clamp terminals -
	with screwdriver flat \emptyset 6 mm
Operating time	



Mechanical durability	4 Mcycles
Operating rate	3600 cyc/h at <= 60 °C

Complementary

complementary	
Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.851.1 Uc at 55 °C operational 60 Hz
	0.81.1 Uc at 55 °C operational 50 Hz
	0.30.6 Uc at 55 °C drop-out 50/60 Hz
Inrush power in VA	245 VA at 20 °C (cos φ 0.75) 50 Hz
	245 VA at 20 °C (cos φ 0.75) 60 Hz
Hold-in power consumption in VA	26 VA at 20 °C (cos φ 0.3) 50 Hz
	26 VA at 20 °C (cos φ 0.3) 60 Hz
Heat dissipation	610 W at 50/60 Hz
Auxiliary contacts type	Type mirror contact (1 NC) conforming to IEC 60947-4-1
	Type mechanically linked (1 NO + 1 NC) conforming to IEC 60947-5-1
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 energisation (between NC and NO contact)
	1.5 ms on de-energisation (between NC and NO contact)
Insulation resistance	> 10 MOhm for signalling circuit

Environment

IP degree of protection	IP2x 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 de- vice	-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	Shocks contactor closed 10 Gn for 11 ms Vibrations contactor closed 3 Gn, 5300 Hz Shocks contactor open 8 Gn for 11 ms Vibrations contactor open 2 Gn, 5300 Hz
Height	127 mm
Width	182 mm
Depth	158 mm
Product weight	3.2 kg

Contractual warranty

Period

18 months

