### Lembar data produk Karakteristik

## LC1D098BD TeSys D contactor - 4P(2 NO + 2 NC) - AC-1 - <= 440 V 20 A - 24 V DC coil





#### Main

14 NO 22 NC 42		
2TI 4T2 6T3 8T4		
Main		
Range	TeSys	
Product name	TeSys D	
Product or component type	Contactor	
Device short name	LC1D	
Contactor application	Resistive load	
Utilisation category	AC-1	
Poles description	4P	
Power pole contact composition	2 NO + 2 NC	
[Ue] rated operational voltage	<= 300 V DC for power circuit <= 690 V AC 25400 Hz for power circuit	
[le] rated operational current	20 A (<= 60 °C) at <= 440 V AC AC-1 for power circuit	
Control circuit type	DC standard	
[Uc] control circuit voltage	24 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	25 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	105 A <= 40 °C 10 s power circuit 210 A <= 40 °C 1 s power circuit 30 A <= 40 °C 10 min power circuit 61 A <= 40 °C 1 min power circuit 100 A 1 s signalling circuit 120 A 500 ms signalling circuit 140 A 100 ms signalling circuit	
Associated fuse rating	20 A gG at <= 690 V coordination type 2 for power circuit 25 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	2.5 mOhm at 50 Hz - Ith 25 A for power circuit
[Ui] rated insulation voltage	600 V for power circuit certifications CSA 600 V for power circuit certifications UL 690 V for power circuit conforming to IEC 60947-4-1 690 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	0.6 Mcycles 25 A AC-1 at Ue <= 440 V
Power dissipation per pole	1.56 W AC-1
Safety cover	With
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 GOST LROS (Lloyds register of shipping) RINA UL
Connections - terminals	<ul> <li>Control circuit : screw clamp terminals 2 cable(s) 12.5 mm<sup>2</sup> - cable stiffness: flexible - with cable end</li> <li>Power circuit : screw clamp terminals 1 cable(s) 14 mm<sup>2</sup> - cable stiffness: flexible - with cable end</li> <li>Control circuit : screw clamp terminals 2 cable(s) 14 mm<sup>2</sup> - cable stiffness: flexible - without cable end</li> <li>Control circuit : screw clamp terminals 2 cable(s) 14 mm<sup>2</sup> - cable stiffness: flexible - without cable end</li> <li>Control circuit : screw clamp terminals 1 cable(s) 14 mm<sup>2</sup> - cable stiffness: flexible - without cable end</li> <li>Control circuit : screw clamp terminals 1 cable(s) 14 mm<sup>2</sup> - cable stiffness: solid - without cable end</li> <li>Control circuit : screw clamp terminals 1 cable(s) 14 mm<sup>2</sup> - cable stiffness: solid - without cable end</li> <li>Control circuit : screw clamp terminals 2 cable(s) 14 mm<sup>2</sup> - cable stiffness: solid - without cable end</li> <li>Control circuit : screw clamp terminals 2 cable(s) 14 mm<sup>2</sup> - cable stiffness: solid - without cable end</li> <li>Power circuit : screw clamp terminals 2 cable(s) 14 mm<sup>2</sup> - cable stiffness: flexible - without cable end</li> <li>Power circuit : screw clamp terminals 2 cable(s) 14 mm<sup>2</sup> - cable stiffness: flexible - without cable end</li> <li>Power circuit : screw clamp terminals 2 cable(s) 14 mm<sup>2</sup> - cable stiffness: flexible - without cable end</li> <li>Power circuit : screw clamp terminals 2 cable(s) 14 mm<sup>2</sup> - cable stiffness: flexible - without cable end</li> <li>Power circuit : screw clamp terminals 2 cable(s) 14 mm<sup>2</sup> - cable stiffness: flexible - without cable end</li> <li>Power circuit : screw clamp terminals 2 cable(s) 14 mm<sup>2</sup> - cable stiffness: solid - without cable end</li> <li>Power circuit : screw clamp terminals 2 cable(s) 14 mm<sup>2</sup> - cable stiffness: solid - without cable end</li> <li>Power circuit : screw clamp terminals 2 cable(s) 14 mm<sup>2</sup> - cable stiffness: solid - without cable end</li> <li>Power circuit : screw clamp terminals 2</li></ul>
Tightening torque	Power circuit : 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Power circuit : 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 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 Philips No 2
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
Operating rate	3600 cyc/h at <= 60 °C
Complementary	
Coil technology	Built-in bidirectional peak limiting diode suppressor

Coil technology	Built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.10.25 Uc drop-out at 60 °C, DC 0.71.25 Uc operational at 60 °C, 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 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	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 open 10 Gn for 11 ms Shocks contactor closed 15 Gn for 11 ms
Height	85 mm
Width	45 mm
Depth	99 mm
Product weight	0.525 kg

#### Offer Sustainability

Green Premium product	
Compliant - since 0702 - Schneider Electric declaration of conformity	
Schneider Electric declaration of conformity	
Reference not containing SVHC above the threshold	
Reference not containing SVHC above the threshold	
Available	
Product environmental	
Available	
Provide the second seco	
	Compliant - since 0702 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold Available Product environmental Available

# Contractual warranty Warranty period 18 months