## Product data sheet Characteristics

# LC2D18BD

# TeSys D reversing contactor - 3P(3 NO) - AC-3 - <= 440 V 18 A - 24 V DC 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 <= 690 V AC 25400 Hz for power circuit
[le] rated operational current	32 A (<= 60 °C) at <= 440 V AC AC-1 for power circuit 18 A (<= 60 °C) at <= 440 V AC AC-3 for power circuit
Motor power kW	10 kW at 660690 V AC 50/60 Hz 10 kW at 500 V AC 50/60 Hz 9 kW at 415440 V AC 50/60 Hz 7.5 kW at 380400 V AC 50/60 Hz 4 kW at 220230 V AC 50/60 Hz
Motor power HP (UL / CSA)	15 hp at 575/600 V AC 50/60 Hz for 3 phases motors 10 hp at 460/480 V AC 50/60 Hz for 3 phases motors 5 hp at 230/240 V AC 50/60 Hz for 3 phases motors 5 hp at 200/208 V AC 50/60 Hz for 3 phases motors 3 hp at 230/240 V AC 50/60 Hz for 1 phase motors 1 hp at 115 V AC 50/60 Hz for 1 phase motors
Control circuit type	DC standard
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	32 A at <= 60 °C for power circuit 10 A at <= 60 °C for signalling circuit
Irms rated making capacity	300 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 capacity	300 A at 440 V for power circuit conforming to IEC 60947
[lcw] rated short-time withstand current	240 A <= 40 °C 1 s power circuit 145 A <= 40 °C 10 s power circuit 84 A <= 40 °C 1 min power circuit 40 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

Average impedance  2.5 mOhm at 50 Hz - Ith 32 A for power circuit  [Ui] rated insulation voltage  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 690 V for power circuit certifications CSA 690 V for power circuit certifications UL 600 V for power circuit conforming to IEC 60947-4-1  Electrical durability  1 Mcycles 32 A AC-1 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V  Power dissipation per pole  2.5 W AC-1 0.8 W AC-3  Safety cover  With Interlocking type  Mechanical  Mounting support  Plate Rail  Standards  EN 60947-4-1 IEC 60947-5-1 IEC 60947-5-1 IEC 60947-5-1 UL 508 CSA C22.2 No 14  Product certifications  BV  CCC CSA DNV GL GOST RINA UL LROS  Connections - terminals  Power circuit: screw clamp terminals 2 cable(s) 1.56 mm² - cable stiffness: solid - without cable end Power circuit: screw clamp terminals 1 cable(s)	Associated fuse rating	35 A gG at <= 690 V coordination type 2 for power circuit 50 A gG at <= 690 V coordination type 1 for power
[Ui] rated insulation voltage  600 V for signalling circuit certifications UL 600 V for signalling circuit conforming to IEC 60947-1 600 V for power circuit certifications CSA 690 V for signalling circuit conforming to IEC 60947-1 600 V for power circuit certifications CSA 690 V for power circuit conforming to IEC 60947-4-1  Electrical durability 1 Mcycles 32 A AC-1 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue = 440 V 1.65 Mcy		
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pole 0.8 W AC-3 Safety cover With Interlocking type Mechanical Mounting support Plate Rail Standards EN 60947-4-1 EN 60947-5-1 IEC 60947-5-1 IEC 60947-5-1 UL 508 CSA C22.2 No 14  Product certifications BV CCC CSA DNV GL GOST RINA UL LROS  Connections - terminals Power circuit: screw clamp terminals 2 cable(s) 1.56 mm² - cable stiffness: solid - without cable end Power circuit: screw clamp terminals 1 cable(s) 1.56 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 2 cable(s) 1.56 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 2 cable(s) 1.56 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 1 cable(s) 1.56 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 2 cable(s) 1.56 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 1.56 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 1.56 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - with cable end Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Power c	Electrical durability	· · · · · · · · · · · · · · · · · · ·
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Mounting support  Plate Rail  Standards  EN 60947-8-1	Safety cover	With
Standards  EN 60947-4-1 EN 60947-5-1 IEC 60947-5-1 IEC 60947-5-1 UL 508 CSA C22.2 No 14  Product certifications  BV CCC CSA DNV GL GOST RINA UL LROS  Connections - terminals  Power circuit: screw clamp terminals 2 cable(s) 1.56 mm² - cable stiffness: solid - without cable end Power circuit: screw clamp terminals 1 cable(s) 1.56 mm² - cable stiffness: solid - without cable end Power circuit: screw clamp terminals 1 cable(s) 1.56 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 2 cable(s) 16 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 2 cable(s) 1.56 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 1 cable(s) 1.56 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 1.34 mm² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 1 cable(s) 1.34 mm² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 1 cable(s) 1.34 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 1.34 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 1.34 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 1.34 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 1.34 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 1.34 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 1.34 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 1.34 mm² - cable stiffness: flexible - with cable end Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Powe	Interlocking type	Mechanical
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with screwdriver Philips No 2 Control 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 Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm  Operating time  1624 ms opening	Connections - terminals	1.56 mm² - cable stiffness: solid - without cable end Power circuit: screw clamp terminals 1 cable(s) 1.56 mm² - cable stiffness: solid - without cable end Power circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 1 cable(s) 16 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 2 cable(s) 1.56 mm² - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 1 cable(s) 1.56 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s)
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	Operating time	, ,



Safety reliability level	B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1 B10d = 1369863 cycles contactor with nominal 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
Control circuit voltage limits	0.71.25 Uc at 60 °C operational 0.10.25 Uc at 60 °C drop-out
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 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 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	Shocks contactor closed 15 Gn for 11 ms Shocks contactor open 10 Gn for 11 ms Vibrations contactor closed 4 Gn, 5300 Hz Vibrations contactor open 2 Gn, 5300 Hz
Height	77 mm
Width	90 mm
Depth	95 mm
Product weight	1.037 kg

### RoHS compliance

RoHS EUR status	Compliant
RoHS EUR conformity date(YYWW)	0627

#### Contractual warranty

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Deviced	40 magatha
Period	18 MONTINS

