Product data sheet Characteristics

LC1DT203BD

TeSys D contactor - 4P(4 NO) - AC-1 - <= 440 V 20 A - 24 V DC standard coil





Main

TeSys D Contactor LC1D Resistive load AC-1 4P 4 NO Power circuit <= 690 V AC 25400 Hz Power circuit <= 300 V DC 20 A 140 °F (60 °C)) <= 440 V AC AC-1 power circuit DC standard 24 V DC 1 NO + 1 NC 6 kV IEC 60947
Contactor LC1D Resistive load AC-1 4P 4 NO Power circuit <= 690 V AC 25400 Hz Power circuit <= 300 V DC 20 A 140 °F (60 °C)) <= 440 V AC AC-1 power circuit DC standard 24 V DC 1 NO + 1 NC
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24 V DC 1 NO + 1 NC
1 NO + 1 NC
6 kV IEC 60947
III
10 A 140 °F (60 °C) signalling circuit 20 A 140 °F (60 °C) power circuit
140 A AC signalling circuit IEC 60947-5-1 250 A DC signalling circuit IEC 60947-5-1 250 A 440 V power circuit IEC 60947
250 A 440 V power circuit IEC 60947
30 A 104 °F (40 °C) - 10 min power circuit 61 A 104 °F (40 °C) - 1 min power circuit 105 A 104 °F (40 °C) - 10 s power circuit 210 A 104 °F (40 °C) - 1 s power circuit 100 A - 1 s signalling circuit 120 A - 500 ms signalling circuit 140 A - 100 ms signalling circuit
10 A gG signalling circuit IEC 60947-5-1 25 A gG <= 690 V type 1 power circuit

	20 A go 1 - 030 V type 2 power circuit
Average impedance	2.5 mOhm - Ith 20 A 50 Hz power circuit
[Ui] rated insulation voltage	Power circuit 600 V CSA Power circuit 600 V UL Signalling circuit 690 V IEC 60947-1 Signalling circuit 600 V CSA Signalling circuit 600 V UL Power circuit 690 V IEC 60947-4-1
Power dissipation per pole	1.56 W AC-1
Safety cover	With
Mounting support	Rail Plate
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 BV CSA GOST GL LROS (Lloyds register of shipping) RINA CCC DNV
Connections - terminals	Control circuit spring terminals 1 0.00 in ² (2.5 mm ²)flexible without cable end Control circuit spring terminals 2 0.00 in ² (2.5 mm ²)flexible without cable end Power circuit spring terminals 1 0.00 in ² (2.5 mm ²)flexible without cable end Power circuit spring terminals 2 0.00 in ² (2.5 mm ²)flexible without cable end
Operating time	1624 ms opening 53.5572.45 ms closing
Safety reliability level	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
Mechanical durability	30 Mcycles
Maximum operating rate	3600 cyc/h 140 °F (60 °C)

Complementary

Coil technology	Built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	Drop-out 0.10.25 Uc DC 140 °F (60 °C)) Operational 0.71.25 Uc DC 140 °F (60 °C))
Time constant	28 ms
Inrush power in W	5.4 W 68 °F (20 °C))
Hold-in power consumption in W	5.4 W 68 °F (20 °C)
Auxiliary contacts type	Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1
Signalling circuit frequency	25400 Hz
Minimum switching current	5 mA signalling circuit
Minimum switching voltage	17 V 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 signalling circuit

Environment

IP degree of protection	IP20 front face IEC 60529
Protective treatment	TH IEC 60068-2-30
Pollution degree	3
Ambient air temperature for operation	23140 °F (-560 °C)
Ambient air temperature for storage	-76176 °F (-6080 °C)

Permissible ambient air temperature around the device	-40158 °F (-4070 °C) at Uc
Operating altitude	3000 m without
Fire resistance	1562 °F (850 °C) IEC 60695-2-1
Flame retardance	V1 UL 94
Mechanical robustness	Vibrations contactor open2 Gn, 5300 Hz Vibrations contactor closed4 Gn, 5300 Hz Shocks contactor closed15 Gn for 11 ms Shocks contactor open10 Gn for 11 ms
Height	3.90 in (99 mm)
Width	1.77 in (45 mm)
Depth	3.90 in (99 mm)
Net weight	0.80 lb(US) (0.365 kg)

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Contractual warranty

Warranty	18 months