www.BaBaedison.com / ۱۹۱۲-۰۰ ۶۷ ۲۷ ۸ / ۴۰۰ داخلی ۲۵۰ ۲۵ ۲۰ ۸ ۲۷ ۰۰۰ ۱۹۱۲-۰۰ ۹۹۲۰۰۰ بابا ادیسون تامین کننده تجهیزات برق صنعتی / ۱۲۰۰۳۵۰۰۰۰ داخلی ۲۹۰۰ ۲۰ ۲۷ ۸

Product datasheet

Specifications





TeSys D contactor - 4P(4 NO) -AC-1 - <= 440 V 40 A - 24 V DC standard coil

LC1DT40BD

Main

Range	TeSys TeSys Deca
Range Of Product	TeSys Deca
Product Or Component Type	Contactor
Device Short Name	LC1D
Contactor Application	Resistive load
Utilisation Category	AC-1
	AC-3
	AC-3e
	AC-4
Poles Description	4P
[Ue] Rated Operational Voltage	Power circuit: <= 690 V AC 25400 Hz
	Power circuit: <= 300 V DC
[le] Rated Operational Current	40 A (at <60 °C) at <= 440 V AC AC-1 for power circuit
[Uc] Control Circuit Voltage	24 V DC

Complementary

Compatibility Code	LC1D
Pole Contact Composition	4 NO
Contact Compatibility	M7
Protective Cover	With
[Ith] Conventional Free Air Thermal Current	10 A (at 60 °C) for signalling circuit 40 A (at 60 °C) for power circuit
Irms Rated Making Capacity	140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1 450 A at 440 V for power circuit conforming to IEC 60947
Rated Breaking Capacity	450 A at 440 V for power circuit conforming to IEC 60947
[Icw] Rated Short-Time Withstand Current	50 A 40 °C - 10 min for power circuit 120 A 40 °C - 1 min for power circuit 240 A 40 °C - 10 s for power circuit 380 A 40 °C - 1 s for power circuit 100 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit
Associated Fuse Rating	10 A gG for signalling circuit conforming to IEC 60947-5-1 63 A gG at <= 690 V coordination type 1 for power circuit 40 A gG at <= 690 V coordination type 2 for power circuit
Average Impedance	2 mOhm - Ith 40 A 50 Hz for power circuit
Power Dissipation Per Pole	3.2 W AC-1

[Ui] Rated Insulation Voltage	Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Signalling circuit: 690 V conforming to IEC 60947-1 Signalling circuit: 600 V CSA certified Signalling circuit: 600 V UL certified Power circuit: 690 V conforming to IEC 60947-4-1
Overvoltage Category	III
Pollution Degree	3
[Uimp] Rated Impulse Withstand Voltage	6 kV conforming to IEC 60947
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
Electrical Durability	1.4 Mcycles 40 A AC-1 at Ue <= 440 V
Control Circuit Type	DC standard
Coil Technology	Built-in bidirectional peak limiting diode suppressor
Control Circuit Voltage Limits	0.10.25 Uc (-4070 °C):drop-out DC 0.71.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC
Inrush Power In W	5.4 W (at 20 °C)
Hold-In Power Consumption In W	5.4 W at 20 °C
Operating Time	20 ±20 % ms opening 63 ±15 % ms closing
Time Constant	28 ms
Maximum Operating Rate	3600 cyc/h 60 °C
Connections - Terminals	Control circuit: screw clamp terminals 2 12.5 mm ² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: flexible without
	Control circuit: screw clamp terminals 2 14 mm ² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm ² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm ² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 2.510 mm ² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 2.510 mm ² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 2.510 mm ² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 2.510 mm ² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 2.510 mm ² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 2.510 mm ² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 2.510 mm ² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 2.510 mm ² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 2.510 mm ² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 2.510 mm ² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 2.516 mm ² - cable stiffness: solid without cable end
Tightening Torque	cable end Control circuit: screw clamp terminals 2 14 mm ² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm ² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 2.510 mm ² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 2.510 mm ² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 2.510 mm ² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 2.510 mm ² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 2.510 mm ² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 2.510 mm ² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 2.510 mm ² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 2.510 mm ² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 2.510 mm ² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 2.516 mm ² - cable stiffness: solid without
Tightening Torque Auxiliary Contact Composition	cable end Control circuit: screw clamp terminals 2 14 mm ² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm ² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 2.510 mm ² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 2.510 mm ² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 2.510 mm ² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 2.510 mm ² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 2.510 mm ² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 2.510 mm ² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 2.510 mm ² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 2.516 mm ² - cable stiffness: solid without cable end Power 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 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 Power circuit: 1.8 N.m - on screw clamp terminals - with screwdriver Philips No 2
	cable end Control circuit: screw clamp terminals 2 14 mm ² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm ² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 2.510 mm ² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 2.510 mm ² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 2.510 mm ² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 2.510 mm ² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 2.510 mm ² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 2.510 mm ² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 2.516 mm ² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 2.516 mm ² - cable stiffness: solid without cable end Power 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 flat Ø 6 mm Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 Power circuit: 1.8 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 Power circuit: 1.8 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 Power circuit: 1.8 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 Power circuit: 1.8 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 Power circuit: 1.8 N.m - on screw clamp terminals - with screwdriver pozidriv No 2
Auxiliary Contact Composition	cable end Control circuit: screw clamp terminals 2 14 mm ² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm ² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 2.510 mm ² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 2.510 mm ² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 2.510 mm ² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 2.510 mm ² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 2.510 mm ² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 2.510 mm ² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 2.516 mm ² - cable stiffness: solid without cable end Power circuit: nore clamp terminals 2 2.516 mm ² - cable stiffness: solid without cable end Power 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 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 1.8 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 1.8 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 1.8 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 1.8 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 1.8 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 Power circuit: 1.8 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 Power circuit: 1.8 N.m - on screw clamp terminals - with screwdriver pozidriv No 2

Minimum Switching Current	5 mA for signalling circuit	
Insulation Resistance	> 10 MOhm 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	
Mounting Support	Plate Rail	

Environment

Standards	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 IEC 60335-1
Product Certifications	CSA UL RINA GOST LROS (Lloyds register of shipping) BV GL DNV CCC
Ip Degree Of Protection	IP20 front face conforming to IEC 60529
Protective Treatment	TH conforming to IEC 60068-2-30
Climatic Withstand	conforming to IACS E10 exposure to damp heat conforming to IEC 60947-1 Annex Q category D exposure to damp heat
Permissible Ambient Air Temperature Around The Device	-4060 °C 6070 °C with derating
Operating Altitude	03000 m
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 (8 Gn for 11 ms)
Height	91 mm
Width	45 mm
Depth	107 mm
Net Weight	0.425 kg

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	5.5 cm
Package 1 Width	9.5 cm
Package 1 Length	12.0 cm
Package 1 Weight	637.0 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	16

Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	10.567 kg
Unit Type Of Package 3	PAL
Number Of Units In Package 3	256
Package 3 Height	60.0 cm
Package 3 Width	80.0 cm
Package 3 Length	70.0 cm
Package 3 Weight	177.6 kg

Contractual warranty

Warranty

18 months

Sustainability Seren

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance

Reach Free Of Svhc
Toxic Heavy Metal Free
Mercury Free
Rohs Exemption Information Yes
Pvc Free

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant EU RoHS Declaration
China Rohs Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information

