# **Product datasheet**

Specifications





### TeSys D contactor - 4P(4 NO) -AC-1 - <= 440 V 25 A - 24 V DC standard coil

Local distributor code: 386105205

LC1DT25BD

EAN Code: 3389110247794

#### 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	25 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
Protective Cover	With
[Ith] Conventional Free Air Thermal Current	10 A (at 60 °C) for signalling circuit 25 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 60947-5-1 250 A at 440 V for power circuit conforming to IEC 60947
Rated Breaking Capacity	250 A at 440 V for power circuit conforming to IEC 60947
[Icw] Rated Short-Time Withstand Current	30 A 40 °C - 10 min for power circuit 61 A 40 °C - 1 min for power circuit 105 A 40 °C - 10 s for power circuit 210 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 40 A gG at <= 690 V coordination type 1 for power circuit 25 A gG at <= 690 V coordination type 2 for power circuit
Average Impedance	2.5 mOhm - Ith 25 A 50 Hz for power circuit
Power Dissipation Per Pole	1.56 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	Ш
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	0.8 Mcycles 25 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 <sup>2</sup> - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm <sup>2</sup> - cable stiffness: flexible without
	cable end Control circuit: screw clamp terminals 2 14 mm <sup>2</sup> - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 14 mm <sup>2</sup> - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm <sup>2</sup> - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 14 mm <sup>2</sup> - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 14 mm <sup>2</sup> - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 14 mm <sup>2</sup> - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 14 mm <sup>2</sup> - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 125 mm <sup>2</sup> - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 14 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 12.5 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 14 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 12 mm <sup>2</sup> - cable stiffness: solid without cable end
Tightening Torque	cable end Control circuit: screw clamp terminals 2 14 mm <sup>2</sup> - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 14 mm <sup>2</sup> - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm <sup>2</sup> - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 14 mm <sup>2</sup> - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 14 mm <sup>2</sup> - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 14 mm <sup>2</sup> - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 12.5 mm <sup>2</sup> - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 14 mm <sup>2</sup> - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 14 mm <sup>2</sup> - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 12.5 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 14 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 12.6 mm <sup>2</sup> - cable stiffness: solid without cable end
Tightening Torque	cable end Control circuit: screw clamp terminals 2 14 mm <sup>2</sup> - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 14 mm <sup>2</sup> - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm <sup>2</sup> - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 14 mm <sup>2</sup> - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 14 mm <sup>2</sup> - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 14 mm <sup>2</sup> - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 14 mm <sup>2</sup> - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 12.5 mm <sup>2</sup> - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 14 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 12.5 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 12.6 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 14 mm <sup>2</sup> - 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 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 Philips No 2 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2
	cable end Control circuit: screw clamp terminals 2 14 mm <sup>2</sup> - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 14 mm <sup>2</sup> - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm <sup>2</sup> - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 14 mm <sup>2</sup> - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 14 mm <sup>2</sup> - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 14 mm <sup>2</sup> - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 14 mm <sup>2</sup> - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 12.5 mm <sup>2</sup> - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 12.5 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 14 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 14 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 14 mm <sup>2</sup> - cable stiffness: solid without cable end 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 flat Ø 6 mm Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver polipis No 2 Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver polipis No 2 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver polipis No 2 Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver polipis No 2 Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver polipis No 2 Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver polipis No 2 Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver polipis No 2 Power circuit: 1.7 N.m - on screw clamp terminal
Auxiliary Contact Composition	cable end Control circuit: screw clamp terminals 2 14 mm <sup>2</sup> - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 14 mm <sup>2</sup> - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm <sup>2</sup> - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 14 mm <sup>2</sup> - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 14 mm <sup>2</sup> - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 14 mm <sup>2</sup> - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 12.5 mm <sup>2</sup> - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 14 mm <sup>2</sup> - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 14 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 12.5 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 14 mm <sup>2</sup> - 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 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 Philips No 2 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 pozidriv No 2 Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 Power circuit: 1.7 N.m - on screw clamp terminals - with s

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	Rail Plate

### Environment

LINIOIIIIEIIL	
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	DNV GL CCC LROS (Lloyds register of shipping) RINA BV GOST UL CSA CB
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 (10 Gn for 11 ms)
Height	85 mm
Width	45 mm
Depth	99 mm
Net Weight	0.365 kg

# **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	5.500 cm
Package 1 Width	9.500 cm
Package 1 Length	12.000 cm
Package 1 Weight	556.000 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	16

Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	9.335 kg
Unit Type Of Package 3	P06
Number Of Units In Package 3	256
Package 3 Height	75.000 cm
Package 3 Width	60.000 cm
Package 3 Length	80.000 cm
Package 3 Weight	155.500 kg

# **Contractual warranty**

Warranty

18 months

# Sustainability Screen Premium

**Green Premium<sup>TM</sup> 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-CO<sub>2</sub> 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

Mercury Free
Rohs Exemption Information Yes
Pvc Free

#### **Certifications & Standards**

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	Product Environmental Profile
Circularity Profile	