



# TeSys Deca contactor , 4P(4 NO) , AC-1 , <= 440V, 60 A , 24V DC standard coil

LC1DT60A3BD

Product availability: Non-Stock - Not normally stocked in distribution facility

① Discontinued

### Main

| Range                          | TeSys<br>TeSys Deca   |
|--------------------------------|---|
| Range of Product               | TeSys Deca  |
| Product or Component Type      | Contactor   |
| Device short name              | LC1D  |
| contactor application          | Resistive load  |
| Utilisation category           | AC-1  |
| poles description              | 4P  |
| [Ue] rated operational voltage | Power circuit <= 690 V AC 25400 Hz<br>Power circuit <= 300 V DC |
| [le] rated operational current | 60 A (at <140 °F (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 140 °F (60 °C)) for signalling circuit<br>60 A (at 140 °F (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 60947-5-1 800 A at 440 V for power circuit conforming to IEC 60947  |
| Rated breaking capacity                     | 800 A at 440 V for power circuit conforming to IEC 60947  |
| [Icw] rated short-time withstand current    | 320 A 104 °F (40 °C) - 10 s for power circuit 720 A 104 °F (40 °C) - 1 s for power circuit 72 A 104 °F (40 °C) - 10 min for power circuit 165 A 104 °F (40 °C) - 1 min for power circuit 160 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 80 A gG at <= 690 V coordination type 1 for power circuit 80 A gG at <= 690 V coordination type 2 for power circuit  |
| Average impedance                           | 1.6 mOhm - Ith 60 A 50 Hz for power circuit   |
| Power dissipation per pole                  | 5.8 W AC-1  |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

| [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   |
|--|--|
| Overvoltage category                   | III  |
| Pollution degree                       | 3  |
| [Uimp] rated impulse withstand voltage | 6 kV IEC 60947   |
| Safety reliability level               | B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1<br>B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1   |
| Mechanical durability                  | 10 Mcycles   |
| Electrical durability                  | 0.7 Mcycles 60 A AC-1 <= 440 V   |
| Control circuit type                   | DC standard  |
| Coil technology                        | Built-in bidirectional peak limiting diode suppressor  |
| Control circuit voltage limits         | 0.10.3 Uc -40158 °F (-4070 °C) drop-out DC<br>0.751.25 Uc -40140 °F (-4060 °C) operational DC<br>11.25 Uc 140158 °F (6070 °C) operational DC   |
| Inrush power in W                      | 19 W 68 °F (20 °C))  |
| Hold-in power consumption in W         | 7.4 W 68 °F (20 °C)  |
| Operating time                         | 50 ±15 % ms closing<br>1624 ms opening   |
| Time constant                          | 34 ms  |
| Maximum operating rate                 | 3600 cyc/h 140 °F (60 °C)  |
| Connections - terminals                | Control circuit: spring terminals 1 0.004 in² (2.5 mm²) - cable stiffness: flexible without cable end  Control circuit: spring terminals 2 0.004 in² (2.5 mm²) - cable stiffness: flexible without cable end  Power circuit: EverLink BTR screw connectors 1 0.0020.05 in² (135 mm²) - cable stiffness: flexible without cable end  Power circuit: EverLink BTR screw connectors 2 0.0020.04 in² (125 mm²) - cable stiffness: flexible without cable end  Power circuit: EverLink BTR screw connectors 1 0.0020.05 in² (135 mm²) - cable stiffness: flexible with cable end  Power circuit: EverLink BTR screw connectors 2 0.0020.04 in² (125 mm²) - cable stiffness: flexible with cable end  Power circuit: EverLink BTR screw connectors 1 0.0020.05 in² (135 mm²) - cable stiffness: solid without cable end  Power circuit: EverLink BTR screw connectors 2 0.0020.05 in² (135 mm²) - cable stiffness: solid without cable end |
| Tightening torque                      | Power circuit 70.8 lbf.in (8 N.m) EverLink BTR screw connectors 0.040.05 in² (25 35 mm²) hexagonal 0.2 in (4 mm)  Power circuit 44.3 lbf.in (5 N.m) EverLink BTR screw connectors 0.0040.04 in² (2.525 mm²) hexagonal 0.2 in (4 mm)  Control circuit 15.05 lbf.in (1.7 N.m) EverLink BTR screw connectors pozidriv No 2 Power circuit 22.1 lbf.in (2.5 N.m) EverLink BTR screw connectors pozidriv No 2  |
| Auxiliary contact composition          | 1 NO + 1 NC  |
| Auxiliary contacts type                | Mechanically linked 1 NO + 1 NC IEC 60947-5-1<br>Mirror contact 1 NC IEC 60947-4-1   |
| Signalling circuit frequency           | 25400 Hz   |
| Minimum switching voltage              | 17 V for signalling circuit  |
| 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    |  |

|   | EN 60947-4-1<br>EN 60947-5-1<br>IEC 60947-4-1<br>IEC 60947-5-1<br>UL 508<br>IEC 60335-1   |
|---|---|
| Product Certifications                                | DNV CCC LROS (Lloyds register of shipping) BV GL UL RINA GOST CSA   |
| IP degree of protection                               | IP20 front face IEC 60529   |
| Protective treatment                                  | THIEC 60068-2-30  |
| Climatic withstand                                    | IACS E10 exposure to damp heat IEC 60947-1 Annex Q category D exposure to damp heat   |
| Permissible ambient air temperature around the device | -40140 °F (-4060 °C)<br>140158 °F (6070 °C) with derating   |
| Operating altitude                                    | 09842.52 ft (03000 m)   |
| Fire resistance                                       | 1562 °F (850 °C) 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  | 4.8 in (122 mm)   |
| Width   | 2.8 in (70 mm)  |
| Depth   | 4.7 in (120 mm)   |
| Net Weight  | 2.568 lb(US) (1.165 kg)   |

## Ordering and shipping details

| Category          | US10I1222358  |
|-------------------|---------------|
| Discount Schedule | 0112          |
| GTIN              | 3389118329614 |
| Returnability     | No            |
| Country of origin | FR            |

## **Packing Units**

| Unit Type of Package 1       | PCE              |
|------------------------------|------------------|
| Number of Units in Package 1 | 1                |
| Package 1 Height             | 3.0 in (7.5 cm)  |
| Package 1 Width              | 5.5 in (14.0 cm) |
| Package 1 Length             | 5.9 in (15.0 cm) |

Package 1 Weight

2.4 lb(US) (1.1 kg)

## **Contractual warranty**

Warranty

18 months



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Transparency RoHS/REACh

## Well-being performance

| <b>②</b> | Reach Free Of Svhc             |
|----------|--------------------------------|
| <b>Ø</b> | Mercury Free                   |
| <b>Ø</b> | Rohs Exemption Information Yes |
| <b>Ø</b> | 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   |
| California Proposition 65 | WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov |
|                           |   |

Image of product / Alternate images

#### **Alternative**







