

# LC1DT206BL

IEC contactor, TeSys Deca, nonreversing,  
20A resistive, 4 pole, 4 NO, low consumption  
24VDC coil, open style





## Main

|                                             |                                                                                                                                                                                                                                                                                              |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                       | TeSys<br>TeSys Deca                                                                                                                                                                                                                                                                          |
| Product name                                | TeSys D<br>TeSys Deca                                                                                                                                                                                                                                                                        |
| Product or Component Type                   | Contacteur                                                                                                                                                                                                                                                                                   |
| Device short name                           | LC1D                                                                                                                                                                                                                                                                                         |
| Contacteur application                      | Resistive load                                                                                                                                                                                                                                                                               |
| Utilisation category                        | AC-1                                                                                                                                                                                                                                                                                         |
| Poles description                           | 4P                                                                                                                                                                                                                                                                                           |
| Power pole contact composition              | 4 NO                                                                                                                                                                                                                                                                                         |
| [Ue] rated operational voltage              | Power circuit $\leq 690$ V AC 25...400 Hz<br>Power circuit $\leq 300$ V DC                                                                                                                                                                                                                   |
| [Ie] rated operational current              | 20 A 140 °F (60 °C) $\leq 440$ V AC AC-1 power circuit                                                                                                                                                                                                                                       |
| Control circuit type                        | DC low consumption                                                                                                                                                                                                                                                                           |
| [Uc] control circuit voltage                | 24 V DC                                                                                                                                                                                                                                                                                      |
| Auxiliary contact composition               | 1 NO + 1 NC                                                                                                                                                                                                                                                                                  |
| [Uimp] rated impulse withstand voltage      | 6 kV IEC 60947                                                                                                                                                                                                                                                                               |
| Overvoltage category                        | III                                                                                                                                                                                                                                                                                          |
| [Ith] conventional free air thermal current | 10 A 140 °F (60 °C) signalling circuit<br>20 A 140 °F (60 °C) power circuit                                                                                                                                                                                                                  |
| Irms rated making capacity                  | 140 A AC signalling circuit IEC 60947-5-1<br>250 A DC signalling circuit IEC 60947-5-1<br>250 A 440 V power circuit IEC 60947                                                                                                                                                                |
| Rated breaking capacity                     | 250 A 440 V power circuit IEC 60947                                                                                                                                                                                                                                                          |
| [Icw] rated short-time withstand current    | 30 A 104 °F (40 °C) - 10 min power circuit<br>61 A 104 °F (40 °C) - 1 min power circuit<br>105 A 104 °F (40 °C) - 10 s power circuit<br>210 A 104 °F (40 °C) - 1 s power circuit<br>100 A - 1 s signalling circuit<br>120 A - 500 ms signalling circuit<br>140 A - 100 ms signalling circuit |
| Associated fuse rating                      | 10 A gG signalling circuit IEC 60947-5-1<br>25 A gG $\leq 690$ V type 1 power circuit<br>20 A gG $\leq 690$ 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<br>Power circuit 600 V UL<br>Signalling circuit 690 V IEC 60947-1<br>Signalling circuit 600 V CSA<br>Signalling circuit 600 V UL<br>Power circuit 690 V IEC 60947-4-1                                                                                                |
| Power dissipation per pole                  | 1.56 W AC-1                                                                                                                                                                                                                                                                                  |
| Front cover                                 | With                                                                                                                                                                                                                                                                                         |
| Mounting Support                            | Rail<br>Plate                                                                                                                                                                                                                                                                                |
| Standards                                   | CSA C22.2 No 14<br>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   | UL<br>GOST<br>CSA<br>RINA<br>CCC<br>BV<br>LROS (Lloyds register of shipping)<br>DNV<br>GL                                                                                                                                                                                                                                                                                                                                                                                              |
| Connections - terminals  | Control circuit lugs-ring terminals 0.31 in (8 mm))<br>Power circuit lugs-ring terminals 0.31 in (8 mm))                                                                                                                                                                                                                                                                                                                                                                               |
| Tightening torque        | Control circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals flat Ø 6 mm M3.5<br>Control circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals Philips No 2 M3.5<br>Power circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals flat Ø 6 mm M3.5<br>Power circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals Philips No 2 M3.5<br>Control circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals pozidriv No 2 M3.5<br>Power circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals pozidriv No 2 M3.5 |
| Operating time           | 65.45...88.55 ms closing<br>20...30 ms opening                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 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    | 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 | 0.1...0.3 Uc -40...158 °F (-40...70 °C) drop-out DC<br>0.8...1.25 Uc -40...140 °F (-40...60 °C) operational DC<br>1...1.25 Uc 140...158 °F (60...70 °C) operational DC |
| Time constant                  | 40 ms                                                                                                                                                                  |
| Inrush power in W              | 2.4 W 68 °F (20 °C))                                                                                                                                                   |
| Hold-in power consumption in W | 2.4 W 68 °F (20 °C)                                                                                                                                                    |
| 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   | 25...400 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<br>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                                                                                                                                                  |
| Climatic withstand                    | IACS E10<br>IEC 60947-1 Annex Q category D                                                                                                                                 |
| Protective treatment                  | TH IEC 60068-2-30                                                                                                                                                          |
| Pollution degree                      | 3                                                                                                                                                                          |
| Ambient air temperature for operation | -40...140 °F (-40...60 °C)<br>140...158 °F (60...70 °C) with derating                                                                                                      |
| Ambient Air Temperature for Storage   | -76...176 °F (-60...80 °C)                                                                                                                                                 |
| Operating altitude                    | 0...9842.52 ft (0...3000 m)                                                                                                                                                |
| Fire resistance                       | 1562 °F (850 °C) IEC 60695-2-1                                                                                                                                             |
| Mechanical robustness                 | Vibrations contactor open2 Gn, 5...300 Hz<br>Vibrations contactor closed4 Gn, 5...300 Hz<br>Shocks contactor closed15 Gn for 11 ms<br>Shocks contactor open10 Gn for 11 ms |
| Height                                | 3.35 in (85 mm)                                                                                                                                                            |

|            |                        |
|------------|------------------------|
| Width      | 1.77 in (45 mm)        |
| Depth      | 3.90 in (99 mm)        |
| Net Weight | 0.80 lb(US) (0.365 kg) |

### Ordering and shipping details

|                       |                                    |
|-----------------------|------------------------------------|
| Category              | 22354-CTR, TESYS D, OPEN, 9-38A AC |
| Discount Schedule     | I12                                |
| GTIN                  | 3389110456202                      |
| Nbr. of units in pkg. | 1                                  |
| Package weight(Lbs)   | 20.67 oz (586.0 g)                 |
| Returnability         | Yes                                |
| Country of origin     | ID                                 |

### Packing Units

|                        |                   |
|------------------------|-------------------|
| Unit Type of Package 1 | PCE               |
| Package 1 Height       | 2.17 in (5.5 cm)  |
| Package 1 width        | 3.74 in (9.5 cm)  |
| Package 1 Length       | 4.65 in (11.8 cm) |

### Offer Sustainability

|                            |                                                                                                                                                                                                                                                           |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                                                                                                     |
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                                                                                                                                                         |
| EU RoHS Directive          | Compliant <a href="#">EU RoHS Declaration</a>                                                                                                                                                                                                             |
| Toxic heavy metal free     | Yes                                                                                                                                                                                                                                                       |
| Mercury free               | Yes                                                                                                                                                                                                                                                       |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                                                                                                                                                       |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>                                                                                                                                                                                                                    |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                                                                                                                                                             |
| Circularity Profile        | <a href="#">End Of Life Information</a>                                                                                                                                                                                                                   |
| PVC free                   | Yes                                                                                                                                                                                                                                                       |

### Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|