

# Product data sheet

Specifications



## TeSys Deca reversing contactor - 3P(3 NO) - AC-3 - <= 440 V 12 A - 24 V DC coil

LC2D126BD

⚠ Discontinued on: May 12, 2023

⚠ Discontinued

### Main

|                                             |                                                                                                                                                                                                                                                                                                       |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                       | TeSys                                                                                                                                                                                                                                                                                                 |
| Product name                                | TeSys Deca                                                                                                                                                                                                                                                                                            |
| Product or component type                   | Reversing contactor                                                                                                                                                                                                                                                                                   |
| Device short name                           | LC2D                                                                                                                                                                                                                                                                                                  |
| Contactor application                       | Motor control<br>Resistive load                                                                                                                                                                                                                                                                       |
| Utilisation category                        | AC-1<br>AC-3                                                                                                                                                                                                                                                                                          |
| Device presentation                         | Preassembled with reversing power busbar                                                                                                                                                                                                                                                              |
| Poles description                           | 3P                                                                                                                                                                                                                                                                                                    |
| power pole contact composition              | 3 NO                                                                                                                                                                                                                                                                                                  |
| [Ue] rated operational voltage              | Power circuit <= 690 V AC 25...400 Hz<br>Power circuit <= 300 V DC                                                                                                                                                                                                                                    |
| [Ie] rated operational current              | 25 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit<br>12 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit                                                                                                                                                                    |
| Motor power kW                              | 3 kW at 220...230 V AC 50 Hz<br>5.5 kW at 380...400 V AC 50 Hz<br>5.5 kW at 415...440 V AC 50 Hz<br>7.5 kW at 500 V AC 50 Hz<br>7.5 kW at 660...690 V AC 50 Hz                                                                                                                                        |
| Motor power hp                              | 1 hp at 115 V AC 60 Hz for 1 phase motors<br>2 hp at 230/240 V AC 60 Hz for 1 phase motors<br>3 hp at 200/208 V AC 60 Hz for 3 phases motors<br>3 hp at 230/240 V AC 60 Hz for 3 phases motors<br>7.5 hp at 460/480 V AC 60 Hz for 3 phases motors<br>10 hp at 575/600 V AC 60 Hz for 3 phases motors |
| Control circuit type                        | DC standard                                                                                                                                                                                                                                                                                           |
| [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 (at 140 °F (60 °C)) for signalling circuit<br>25 A (at 140 °F (60 °C)) for power circuit                                                                                                                                                                                                         |
| Irms rated making capacity                  | 250 A at 440 V for power circuit conforming to IEC 60947<br>140 A AC for signalling circuit conforming to IEC 60947-5-1<br>250 A DC for signalling circuit conforming to IEC 60947-5-1                                                                                                                |
| Rated breaking capacity                     | 250 A at 440 V for power circuit conforming to IEC 60947                                                                                                                                                                                                                                              |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                                          |                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Icw] rated short-time withstand current | 30 A 104 °F (40 °C) - 10 min for power circuit<br>61 A 104 °F (40 °C) - 1 min for power circuit<br>105 A 104 °F (40 °C) - 10 s for power circuit<br>210 A 104 °F (40 °C) - 1 s for power circuit<br>100 A - 1 s for signalling circuit<br>120 A - 500 ms for signalling circuit<br>140 A - 100 ms for signalling circuit |
| Associated fuse rating                   | 10 A gG for signalling circuit conforming to IEC 60947-5-1<br>40 A gG at <= 690 V coordination type 1 for power circuit<br>25 A gG at <= 690 V coordination type 2 for power circuit                                                                                                                                     |
| Average impedance                        | 2.5 mOhm - lth 25 A 50 Hz for power circuit                                                                                                                                                                                                                                                                              |
| [Ui] rated insulation voltage            | Power circuit 690 V IEC 60947-4-1<br>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                                                                                                                            |
| Electrical durability                    | 2 Mcycles 12 A AC-3 <= 440 V<br>0.8 Mcycles 25 A AC-1 <= 440 V                                                                                                                                                                                                                                                           |
| Power dissipation per pole               | 1.56 W AC-1<br>0.36 W AC-3                                                                                                                                                                                                                                                                                               |
| Front cover                              | With                                                                                                                                                                                                                                                                                                                     |
| Interlocking type                        | Mechanical                                                                                                                                                                                                                                                                                                               |
| 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                                                                                                                                                                                                                              |
| Product certifications                   | GL<br>CSA<br>UL<br>LROS (Lloyds register of shipping)<br>GOST<br>BV<br>RINA<br>DNV<br>CCC                                                                                                                                                                                                                                |
| Connections - terminals                  | Control circuit lugs-ring terminals 0.3 in (8 mm))<br>Power circuit lugs-ring terminals 0.3 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 8 mm M3.5<br>Power circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals Philips No 2 M3.5   |
| Operating time                           | 53.55...72.45 ms closing<br>16...24 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...0.25 Uc (-40...158 °F (-40...70 °C)):drop-out DC<br>0.7...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                            | 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<br>Mirror contact 1 NC IEC 60947-4-1                      |
| Signalling circuit frequency   | 25...400 Hz                                                                                             |
| Minimum switching current      | 5 mA for signalling circuit                                                                             |
| Minimum switching voltage      | 17 V for 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 for 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...3000 m                                                                                                                                                                 |
| Fire resistance                       | 1562 °F (850 °C) IEC 60695-2-1                                                                                                                                             |
| Flame retardance                      | V1 UL 94                                                                                                                                                                   |
| Mechanical robustness                 | Vibrations contactor open2 Gn, 5...300 Hz<br>Vibrations contactor closed4 Gn, 5...300 Hz<br>Shocks contactor open10 Gn for 11 ms<br>Shocks contactor closed15 Gn for 11 ms |
| Height                                | 3.03 in (77 mm)                                                                                                                                                            |
| Width                                 | 3.5 in (90 mm)                                                                                                                                                             |
| Depth                                 | 3.7 in (95 mm)                                                                                                                                                             |
| Net weight                            | 2.264 lb(US) (1.027 kg)                                                                                                                                                    |

## Packing Units

|                              |                       |
|------------------------------|-----------------------|
| Unit Type of Package 1       | PCE                   |
| Number of Units in Package 1 | 1                     |
| Package 1 Height             | 3.7 in (9.4 cm)       |
| Package 1 Width              | 4.5 in (11.4 cm)      |
| Package 1 Length             | 4.3 in (11 cm)        |
| Package 1 Weight             | 2.38 lb(US) (1.08 kg) |

## Contractual warranty

|                      |    |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|



## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



### Environmental footprint

Environmental Disclosure

[Product Environmental Profile](#)

## Use Better



### Materials and Substances

EU RoHS Directive

[Compliant](#)

PVC free

Yes

## Use Longer



### Lifetime extension

Repair

No

## Use Again



### Repack and remanufacture

WEEE Label



The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins