

# Product datasheet

Specifications



## TeSys D contactor - 4P(4 NO) - AC-1 - <= 440 V 200 A - 277 V AC 60 Hz coil

LC1D115004W6

⚠ Discontinued on: 10 Jun 2022

⚠ End-of-service on: 26 Nov 2024

⚠ Discontinued

### Main

|                                |                                                                       |
|--------------------------------|-----------------------------------------------------------------------|
| Range                          | TeSys                                                                 |
| Range of product               | TeSys Deca                                                            |
| Product or component type      | Contactor                                                             |
| Device short name              | LC1D                                                                  |
| Contactor application          | Resistive load                                                        |
| Utilisation category           | AC-1<br>AC-3<br>AC-3e<br>AC-4                                         |
| Poles description              | 4P                                                                    |
| [Ue] rated operational voltage | Power circuit: <= 1000 V AC 25...400 Hz<br>Power circuit: <= 460 V DC |
| [Ie] rated operational current | 200 A (at <60 °C) at <= 440 V AC AC-1 for power circuit               |
| [Uc] control circuit voltage   | 277 V AC 60 Hz                                                        |

### Complementary

|                                             |                                                                                                                                                                 |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Compatibility code                          | LC1D                                                                                                                                                            |
| Pole contact composition                    | 4 NO                                                                                                                                                            |
| Protective cover                            | With                                                                                                                                                            |
| [Ith] conventional free air thermal current | 200 A (at 60 °C) for power circuit                                                                                                                              |
| Irms rated making capacity                  | 1260 A at 440 V for power circuit conforming to IEC 60947                                                                                                       |
| Rated breaking capacity                     | 1100 A at 440 V for power circuit conforming to IEC 60947                                                                                                       |
| [Icw] rated short-time withstand current    | 250 A 40 °C - 10 min for power circuit<br>550 A 40 °C - 1 min for power circuit<br>950 A 40 °C - 10 s for power circuit<br>1100 A 40 °C - 1 s for power circuit |
| Associated fuse rating                      | 250 A gG at <= 690 V coordination type 1 for power circuit<br>200 A gG at <= 690 V coordination type 2 for power circuit                                        |
| Average impedance                           | 0.6 mOhm - Ith 200 A 50 Hz for power circuit                                                                                                                    |
| Power dissipation per pole                  | 24 W AC-1                                                                                                                                                       |
| [Ui] rated insulation voltage               | Power circuit: 600 V CSA certified<br>Power circuit: 600 V UL certified<br>Power circuit: 1000 V conforming to IEC 60947-4-1                                    |
| Overvoltage category                        | III                                                                                                                                                             |
| Pollution degree                            | 3                                                                                                                                                               |

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

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Uimp] rated impulse withstand voltage | 8 kV conforming to IEC 60947                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Safety reliability level               | B10d = 684932 cycles contactor with nominal load conforming to EN/ISO 13849-1<br>B10d = 10000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Mechanical durability                  | 8 Mcycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Electrical durability                  | 0.8 Mcycles 200 A AC-1 at Ue <= 440 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Control circuit type                   | AC at 60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Coil technology                        | Without built-in suppressor module                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Control circuit voltage limits         | 0.85...1.1 Uc (-40...55 °C):operational AC 60 Hz<br>0.3...0.6 Uc (-40...70 °C):drop-out AC 60 Hz<br>1...1.1 Uc (55...70 °C):operational AC 60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Inrush power in VA                     | 300 VA 60 Hz cos phi 0.8 (at 20 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Hold-in power consumption in VA        | 22 VA 60 Hz cos phi 0.3 (at 20 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Heat dissipation                       | 3...8 W at 60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Operating time                         | 6...20 ms opening<br>20...50 ms closing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Connections - terminals                | Control circuit: screw clamp terminals 2 1...2.5 mm² - cable stiffness: flexible with cable end<br>Control circuit: screw clamp terminals 1 1...2.5 mm² - cable stiffness: flexible with cable end<br>Control circuit: screw clamp terminals 1 1...2.5 mm² - cable stiffness: flexible without cable end<br>Control circuit: screw clamp terminals 2 1...2.5 mm² - cable stiffness: flexible without cable end<br>Control circuit: screw clamp terminals 1 1...2.5 mm² - cable stiffness: solid without cable end<br>Control circuit: screw clamp terminals 2 1...2.5 mm² - cable stiffness: solid without cable end<br>Power circuit: connector 1 10...120 mm² - cable stiffness: flexible without cable end<br>Power circuit: connector 2 10...50 mm² - cable stiffness: flexible without cable end<br>Power circuit: connector 1 10...120 mm² - cable stiffness: flexible with cable end<br>Power circuit: connector 2 10...50 mm² - cable stiffness: flexible with cable end<br>Power circuit: connector 1 10...120 mm² - cable stiffness: solid without cable end<br>Power circuit: connector 2 10...50 mm² - cable stiffness: solid without cable end |
| Tightening torque                      | Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm<br>Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2<br>Power circuit: 12 N.m - on connector hexagonal screw head 4 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Mounting support                       | Rail<br>Plate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

## Environment

|                         |                                                                                                                    |
|-------------------------|--------------------------------------------------------------------------------------------------------------------|
| 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  | GOST<br>UL<br>DNV<br>RINA<br>GL<br>BV<br>LROS (Lloyds register of shipping)<br>CSA<br>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<br>conforming to IEC 60947-1 Annex Q category D exposure to damp heat |

|                                                       |                                                                                                                                                                                       |
|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Permissible ambient air temperature around the device | -40...60 °C<br>60...70 °C with derating                                                                                                                                               |
| Operating altitude                                    | 0...3000 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, 5...300 Hz)<br>Vibrations contactor closed (4 Gn, 5...300 Hz)<br>Shocks contactor closed (15 Gn for 11 ms)<br>Shocks contactor open (6 Gn for 11 ms) |
| Height                                                | 158 mm                                                                                                                                                                                |
| Width                                                 | 150 mm                                                                                                                                                                                |
| Depth                                                 | 132 mm                                                                                                                                                                                |
| Net weight                                            | 2.86 kg                                                                                                                                                                               |

## Packing Units

|                              |     |
|------------------------------|-----|
| Unit Type of Package 1       | PCE |
| Number of Units in Package 1 | 1   |

## 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 >](#)

### Use Longer

| Lifetime extension |    |
|--------------------|----|
| Repair             | No |