

# Product datasheet

Specifications



contactor - TeSys LP1-D - 4 poles  
(2NO + 2NC) - AC-1 440V 80 A -  
coil 36 V DC

LP1D65008CD

EAN Code: 3389110202557

! Discontinued

## Main

|                                |                                                        |
|--------------------------------|--------------------------------------------------------|
| Range                          | TeSys                                                  |
| Range of product               | TeSys D                                                |
| Product or component type      | Contactor                                              |
| Device short name              | LP1D                                                   |
| Contactor application          | Resistive load                                         |
| Utilisation category           | AC-1                                                   |
| Poles description              | 4P                                                     |
| [Ue] rated operational voltage | Power circuit: <= 690 V AC 25...400 Hz                 |
| [Ie] rated operational current | 80 A (at <60 °C) at <= 440 V AC AC-1 for power circuit |
| [Uc] control circuit voltage   | 36 V DC                                                |

## Complementary

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Motor power kW                              | 30 kW at 380...400 V AC 50/60 Hz<br>37 kW at 500 V AC 50/60 Hz<br>37 kW at 660...690 V AC 50/60 Hz<br>37 kW at 415...440 V AC 50/60 Hz<br>18.5 kW at 220...230 V AC 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Motor power hp                              | 10 hp at 230/240 V AC 60 Hz for 1 phase motors conforming to CSA<br>10 hp at 230/240 V AC 60 Hz for 1 phase motors conforming to UL<br>20 hp at 200/208 V AC 60 Hz for 3 phases motors conforming to CSA<br>20 hp at 200/208 V AC 60 Hz for 3 phases motors conforming to UL<br>20 hp at 230/240 V AC 60 Hz for 3 phases motors conforming to CSA<br>20 hp at 230/240 V AC 60 Hz for 3 phases motors conforming to UL<br>5 hp at 115 V AC 60 Hz for 1 phase motors conforming to CSA<br>5 hp at 115 V AC 60 Hz for 1 phase motors conforming to UL<br>50 hp at 460/480 V AC 60 Hz for 3 phases motors conforming to CSA<br>50 hp at 460/480 V AC 60 Hz for 3 phases motors conforming to UL<br>50 hp at 575/600 V AC 60 Hz for 3 phases motors conforming to CSA<br>50 hp at 575/600 V AC 60 Hz for 3 phases motors conforming to UL |
| Compatibility code                          | LP1D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Pole contact composition                    | 2 NO + 2 NC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Protective cover                            | With                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| [Ith] conventional free air thermal current | 10 A (at 60 °C) for control circuit<br>80 A (at 60 °C) for power circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Irms rated making capacity                  | 1000 A at 440 V for power circuit conforming to IEC 60947<br>250 A AC for control circuit conforming to IEC 60947-5-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Rated breaking capacity                     | 1000 A at 440 V for power circuit conforming to IEC 60947                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Associated fuse rating                      | 10 A gG for control circuit conforming to IEC 60947-5-1<br>125 A gG at <= 690 V coordination type 2 for power circuit<br>160 A gG at <= 690 V coordination type 1 for power circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Average impedance                      | 1 mOhm - lth 80 A 50 Hz for power circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Power dissipation per pole             | 9.6 W AC-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| [Ui] rated insulation voltage          | Control circuit: 600 V CSA certified<br>Control circuit: 600 V UL certified<br>Power circuit: 600 V CSA certified<br>Power circuit: 600 V UL certified<br>Control circuit: 690 V conforming to IEC 60947-1<br>Power circuit: 690 V conforming to IEC 60947-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Overvoltage category                   | III                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| [Uimp] rated impulse withstand voltage | 6 kV conforming to IEC 60947                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Mechanical durability                  | 10000000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Control circuit type                   | DC standard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Coil technology                        | Built-in bidirectional peak limiting diode suppressor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Control circuit voltage limits         | 0.1...0.3 Uc (60 °C):drop-out<br>0.75...1.25 Uc (60 °C):operational                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Inrush power in W                      | 19 W (at 20 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Hold-in power consumption in W         | 7.4 W at 20 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Operating time                         | 20 ms opening<br>50 ms closing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Time constant                          | 34 ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Maximum operating rate                 | 3600 cyc/h 60 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Connections - terminals                | Control circuit: screw clamp terminal 1 1...4 mm² - cable stiffness: solid without cable end<br>Control circuit: screw clamp terminal 2 1...4 mm² - cable stiffness: solid without cable end<br>Control circuit: screw clamp terminal 1 1...2.5 mm² - cable stiffness: flexible without cable end<br>Control circuit: screw clamp terminal 2 1...2.5 mm² - cable stiffness: flexible without cable end<br>Control circuit: screw clamp terminal 1 1...4 mm² - cable stiffness: flexible with cable end<br>Control circuit: screw clamp terminal 2 1...4 mm² - cable stiffness: flexible with cable end<br>Power circuit: connector 1 2.5...35 mm² - cable stiffness: solid with cable end<br>Power circuit: connector 2 2.5...35 mm² - cable stiffness: solid with cable end<br>Power circuit: connector 1 2.5...35 mm² - cable stiffness: flexible without cable end<br>Power circuit: connector 2 2.5...25 mm² - cable stiffness: flexible without cable end<br>Power circuit: connector 1 2.5...35 mm² - cable stiffness: flexible with cable end<br>Power circuit: connector 2 2.5...35 mm² - cable stiffness: flexible with cable end |
| Tightening torque                      | Control circuit: 1.2 N.m - on screw clamp terminal - with screwdriver flat Ø 6 mm<br>Control circuit: 1.2 N.m - on screw clamp terminal - with screwdriver Philips No 2<br>Power circuit: 5 N.m - on screw clamp terminal - with screwdriver flat Ø 6 to Ø 8 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Auxiliary contacts type                | type mirror contact 1 NC conforming to IEC 60947-4-1<br>type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Minimum switching voltage              | 17 V for control circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Minimum switching current              | 5 mA for control circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Insulation resistance                  | > 10 MOhm for control circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Non-overlap time                       | 1.5 ms on de-energisation between NC and NO contacts<br>1.5 ms on energisation between NC and NO contacts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Mounting support                       | Plate<br>Rail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

## Environment

|                                                       |                                                                                                                                                                        |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                                             | EN 60947-1<br>IEC 60947-1<br>VDE 0660<br>BS 5424<br>JEM 1038<br>EN 60947-4-1<br>NF C 63-110<br>IEC 60947-4-1                                                           |
| Product certifications                                | CSA<br>RINA<br>UL<br>Sichere trennung<br>GOST<br>DNV<br>SNCF<br>PTB<br>GL                                                                                              |
| IP degree of protection                               | IP2X conforming to IEC 60529<br>IP2X conforming to VDE 0106                                                                                                            |
| Climatic withstand                                    | conforming to IACS E10 exposure to damp heat                                                                                                                           |
| Permissible ambient air temperature around the device | -60...80 °C storage<br>-40...60 °C operation<br>60...70 °C with derating                                                                                               |
| Operating altitude                                    | 3000 m without derating                                                                                                                                                |
| Fire resistance                                       | 850 °C conforming to IEC 60695-2-1                                                                                                                                     |
| Flame retardance                                      | V1 conforming to UL 94                                                                                                                                                 |
| Mechanical robustness                                 | Shocks contactor opened (10 Gn)<br>Shocks contactor closed (15 gn)<br>Vibrations contactor opened (2 Gn, 5...300 Hz)<br>Vibrations contactor closed (4 Gn, 5...300 Hz) |
| Height                                                | 127 mm                                                                                                                                                                 |
| Width                                                 | 85 mm                                                                                                                                                                  |
| Depth                                                 | 182 mm                                                                                                                                                                 |
| Product weight                                        | 2.22 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 |

### 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 |