

# Product datasheet

Specifications



## contactor - TeSys LP1-D - 4 poles - AC-1 440V 80 A - coil 48 V DC

LP1D65004ED

⚠ Discontinued on: 14 Nov 2017

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### Main

Range of product	TeSys Deca
Product or component type	Contacteur
Device short name	LP1D
Contacteur application	Resistive load
Utilisation category	AC-1 AC-3 AC-3e AC-4
Poles description	4P
[Ue] rated operational voltage	Power circuit: $\leq 690$ V AC 25...400 Hz
[Ie] rated operational current	80 A (at $\leq 60$ °C) AC AC-1 for power circuit
[Uc] control circuit voltage	48 V DC

### Complementary

Compatibility code	LP1D
Pole contact composition	4 NO
Protective cover	With
[Ith] conventional free air thermal current	10 A (at 60 °C) for control circuit 80 A (at 60 °C) for power circuit
Irms rated making capacity	1000 A at 440 V for power circuit conforming to IEC 60947 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 60947-5-1 125 A gG at $\leq 690$ V coordination type 2 for power circuit 160 A gG at $\leq 690$ V coordination type 1 for power circuit
Average impedance	1 mOhm - Ith 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 Control circuit: 600 V UL certified Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Control circuit: 690 V conforming to IEC 60947-1 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

<b>Control circuit type</b>	DC standard
<b>Coil technology</b>	Built-in bidirectional peak limiting diode suppressor
<b>Control circuit voltage limits</b>	0.1...0.3 U <sub>c</sub> (60 °C):drop-out DC 0.75...1.25 U <sub>c</sub> (60 °C):operational DC
<b>Inrush power in W</b>	19 W (at 20 °C)
<b>Hold-in power consumption in W</b>	7.4 W at 20 °C
<b>Rated operational power in W</b>	12 W at 48 V DC-13 - electrical durability: 10000000 cycles - for control circuit 38 W at 48 V DC-13 - electrical durability: 3000000 cycles - for control circuit 76 W at 48 V DC-13 - electrical durability: 1000000 cycles - for control circuit
<b>Operating time</b>	20 ms opening 50 ms closing
<b>Time constant</b>	34 ms
<b>Maximum operating rate</b>	3600 cyc/h 60 °C
<b>Connections - terminals</b>	Control circuit: screw clamp terminal 1 1...4 mm <sup>2</sup> - cable stiffness: solid without cable end Control circuit: screw clamp terminal 2 1...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end Control circuit: screw clamp terminal 2 1...4 mm <sup>2</sup> - cable stiffness: flexible without cable end Control circuit: screw clamp terminal 2 1...4 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminal 1 1...35 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminal 2 1...25 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminal 2 1...35 mm <sup>2</sup> - cable stiffness: solid without cable end
<b>Tightening torque</b>	Control circuit: 1.2 N.m - on screw clamp terminal - with screwdriver flat Ø 6 mm Control circuit: 1.2 N.m - on screw clamp terminal - with screwdriver Philips No 2 Power circuit: 5 N.m - on screw clamp terminal - with screwdriver flat Ø 6 to Ø 8 mm
<b>Auxiliary contacts type</b>	type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to IEC 60947-4-1
<b>Minimum switching voltage</b>	17 V for control circuit
<b>Minimum switching current</b>	5 mA for control circuit
<b>Insulation resistance</b>	> 10 MOhm for control circuit
<b>Non-overlap time</b>	1.5 ms on de-energisation between NC and NO contacts 1.5 ms on energisation between NC and NO contacts
<b>Mounting support</b>	Plate Rail

## Environment

<b>Standards</b>	VDE 0660 NF C 63-110 EN 60947-4-1 IEC 60947-4-1 IEC 60947-1 BS 5424 EN 60947-1 JEM 1038
<b>Product certifications</b>	CSA PTB RINA UL SNCF DNV GOST GL Sichere trennung
<b>IP degree of protection</b>	IP2X conforming to IEC 60529 IP2X conforming to VDE 0106

<b>Protective treatment</b>	TH (pollution degree 3) conforming to IEC 60068
<b>Permissible ambient air temperature around the device</b>	-60...80 °C storage -40...60 °C operation 60...70 °C with derating
<b>Operating altitude</b>	3000 m without derating
<b>Fire resistance</b>	850 °C conforming to IEC 60695-2-1
<b>Flame retardance</b>	V1 conforming to UL 94
<b>Mechanical robustness</b>	Shocks contactor opened (10 Gn) Shocks contactor closed (15 gn) Vibrations contactor opened (2 Gn, 5...300 Hz) Vibrations contactor closed (4 Gn, 5...300 Hz)
<b>Height</b>	127 mm
<b>Width</b>	85 mm
<b>Depth</b>	182 mm
<b>Product weight</b>	2.21 kg

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1

## Contractual warranty

<b>Warranty (in months)</b>	18
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## 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