

# Product datasheet

Specifications



## CONTACTOR 600VAC 40AMP IEC +OPTIONS

LP1D40004BD

Discontinued on: 1 Nov 2020

EAN Code: 3389110234039

Discontinued

### Main

Range Of Product	TeSys Deca
Product Or Component Type	Contactor
Device Short Name	LP1D
Contactor Application	Resistive load
Utilisation Category	AC-1 AC-3 AC-3e AC-4
Poles Description	4P
[Ue] Rated Operational Voltage	Power circuit: <= 690 V AC 25...400 Hz
[Ie] Rated Operational Current	60 A (at <60 °C) AC AC-1 for power circuit
[Uc] Control Circuit Voltage	24 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 60 A (at 60 °C) for power circuit
Irms Rated Making Capacity	250 A AC for control circuit conforming to IEC 60947-5-1 800 A at 440 V for power circuit conforming to IEC 60947
Rated Breaking Capacity	800 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 80 A gG at <= 690 V coordination type 1 for power circuit 80 A gG at <= 690 V coordination type 2 for power circuit
Average Impedance	1.5 mOhm - Ith 60 A 50 Hz for power circuit
Power Dissipation Per Pole	5.4 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
[Uiimp] 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 Uc (60 °C):drop-out DC 0.75...1.25 Uc (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>	14 W at 24 V DC-13 - electrical durability: 10000000 cycles - for control circuit 48 W at 24 V DC-13 - electrical durability: 3000000 cycles - for control circuit 96 W at 24 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 hexagonal screw head
<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 MΩ 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>	BS 5424 IEC 60947-4-1 VDE 0660 EN 60947-4-1 IEC 60947-1 NF C 63-110 JEM 1038 EN 60947-1
<b>Product Certifications</b>	DNV SNCF Sichere trennung PTB UL GL CSA RINA GOST

<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>	-5...60 °C -40...70 °C at Uc
<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 open (8 Gn for 11 ms) Shocks contactor closed (10 Gn for 11 ms) 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>Net Weight</b>	2.21 kg

## Packing Units

<b>Unit Type Of Package 1</b>	PCE
<b>Number Of Units In Package 1</b>	1
<b>Package 1 Height</b>	19.2 cm
<b>Package 1 Width</b>	10 cm
<b>Package 1 Length</b>	13.5 cm
<b>Package 1 Weight</b>	2.178 kg
<b>Unit Type Of Package 2</b>	S02
<b>Number Of Units In Package 2</b>	2
<b>Package 2 Height</b>	15 cm
<b>Package 2 Width</b>	30 cm
<b>Package 2 Length</b>	40 cm
<b>Package 2 Weight</b>	4.811 kg

## Contractual warranty

<b>Warranty</b>	18 months
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## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

## Well-being performance

 Reach Free Of Svhc

 Toxic Heavy Metal Free

 Mercury Free

 RoHS Exemption Information Yes

 Pvc Free

## Certifications & Standards

### Reach Regulation

[REACH Declaration](#)

### Eu RoHS Directive

Compliant

[EU RoHS Declaration](#)

### China RoHS Regulation

[China RoHS declaration](#)

Pro-active China RoHS declaration (out of China RoHS legal scope)

### Environmental Disclosure

[Product Environmental Profile](#)

### WEEE

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

### Circularity Profile

No need of specific recycling operations