# **Product datasheet**

Specifications





### TeSys D contactor - 4P(2 NO + 2 NC) - AC-1 <= 440 V 60 A 220 V AC 50/60 Hz coil

LC1D40008M7

#### 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
Poles Description	4P
[Ue] Rated Operational Voltage	Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC
[le] Rated Operational Current	60 A (at <60 °C) at <= 440 V AC AC-1 for power circuit
[Uc] Control Circuit Voltage	220 V AC 50/60 Hz

#### Complementary

Compatibility Code	LC1D
Pole Contact Composition	2 NO + 2 NC
Protective Cover	Without
[Ith] Conventional Free Air Thermal Current	60 A (at 60 °C) for power circuit
Irms Rated Making Capacity	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
[Icw] Rated Short-Time Withstand Current	320 A 40 °C - 10 s for power circuit 720 A 40 °C - 1 s for power circuit 72 A 40 °C - 10 min for power circuit 165 A 40 °C - 1 min for power circuit
Associated Fuse Rating	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	Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Power circuit: 690 V conforming to IEC 60947-4-1
Overvoltage Category	III
Pollution Degree	3
[Uimp] Rated Impulse Withstand	6 kV conforming to IEC 60947

[Uimp] Rated Impulse Withstand 6 kV conforming to IEC 6094 Voltage

Price is "List Price" and may be subject to a trade discount - check with your local distributor or retailer for actual price.

Safety Reliability Level	B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1
Mechanical Durability	6 Mcycles
Electrical Durability	1.4 Mcycles 60 A AC-1 at Ue <= 440 V
Control Circuit Type	AC at 50/60 Hz
Coil Technology	Without built-in suppressor module
Control Circuit Voltage Limits	0.30.6 Uc (-4070 °C):drop-out AC 50/60 Hz 0.81.1 Uc (-4060 °C):operational AC 50 Hz 0.851.1 Uc (-4060 °C):operational AC 60 Hz 11.1 Uc (6070 °C):operational AC 50/60 Hz
Inrush Power In Va	140 VA 60 Hz cos phi 0.75 (at 20 °C) 160 VA 50 Hz cos phi 0.75 (at 20 °C)
Hold-In Power Consumption In Va	13 VA 60 Hz cos phi 0.3 (at 20 °C) 15 VA 50 Hz cos phi 0.3 (at 20 °C)
Heat Dissipation	45 W at 50/60 Hz
Operating Time	419 ms opening 1226 ms closing
Maximum Operating Rate	3600 cyc/h 60 °C
Connections - Terminals	Control circuit: screw clamp terminals 2 12.5 mm <sup>2</sup> - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm <sup>2</sup> - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 14 mm <sup>2</sup> - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 14 mm <sup>2</sup> - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm <sup>2</sup> - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm <sup>2</sup> - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 14 mm <sup>2</sup> - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 125 mm <sup>2</sup> - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 125 mm <sup>2</sup> - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 135 mm <sup>2</sup> - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 135 mm <sup>2</sup> - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 125 mm <sup>2</sup> - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 125 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 125 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 125 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 125 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 125 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 125 mm <sup>2</sup> - cable stiffness: solid without cable end
Tightening Torque	Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 8 N.m - on screw clamp terminals - cable 2535 mm <sup>2</sup> hexagonal screw head 4 mm Power circuit: 5 N.m - on screw clamp terminals - cable 125 mm <sup>2</sup> hexagonal screw head 4 mm Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2
Mounting Support	Plate Rail

### Environment

Standards	

CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508

Product Certifications	RINA GL UL GOST BV LROS (Lloyds register of shipping) DNV CCC CSA
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
Permissible Ambient Air Temperature Around The Device	-4060 °C 6070 °C with derating
Operating Altitude	03000 m
Fire Resistance	850 °C conforming to IEC 60695-2-1
Flame Retardance	V1 conforming to UL 94
Mechanical Robustness	Shocks contactor open (8 Gn for 11 ms) Shocks contactor closed (10 Gn for 11 ms) Vibrations contactor opened (2 Gn, 5300 Hz) Vibrations contactor closed (4 Gn, 5300 Hz)
Height	127 mm
Width	85 mm
Depth	125 mm
Net Weight	1.44 kg

### **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	11.2 cm
Package 1 Width	13.5 cm
Package 1 Length	15.2 cm
Package 1 Weight	1.47 kg
Unit Type Of Package 2	\$02
Number Of Units In Package 2	5
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	7.605 kg

## **Contractual warranty**

Warranty

18 months

### Sustainability Screen Premium

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass 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

#### **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