# **Product data sheet**

Specification





Contactor, TeSys Deca, 4P(2NO+2NC),AC-1, <=440V, 80A,110V AC 50Hz coil, screw clamp terminal

LC1D65008F5

(!) 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
Poles Description	4P
[Ue] Rated Operational Voltage	Power circuit <= 690 V AC 25400 Hz Power circuit <= 300 V DC
[le] Rated Operational Current	80 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit
[Uc] Control Circuit Voltage	110 V AC 50 Hz

### Complementary

Compatibility Code	LC1D
Pole Contact Composition	2 NO + 2 NC
Protective Cover	Without
[Ith] Conventional Free Air Thermal Current	80 A (at 140 °F (60 °C)) for power circuit
Irms Rated Making Capacity	1000 A at 440 V for power circuit conforming to IEC 60947
Rated Breaking Capacity	1000 A at 440 V for power circuit conforming to IEC 60947
[Icw] Rated Short-Time Withstand Current	520 A 104 °F (40 °C) - 10 s for power circuit 900 A 104 °F (40 °C) - 1 s for power circuit 110 A 104 °F (40 °C) - 10 min for power circuit 260 A 104 °F (40 °C) - 1 min for power circuit
Associated Fuse Rating	125 A gG at <= 690 V coordination type 1 for power circuit 125 A gG at <= 690 V coordination type 2 for power circuit
Average Impedance	1.5 mOhm - Ith 80 A 50 Hz for power circuit
Power Dissipation Per Pole	9.6 W AC-1
[Ui] Rated Insulation Voltage	Power circuit 600 V CSA Power circuit 600 V UL Power circuit 690 V IEC 60947-4-1
Overvoltage Category	III
Pollution Degree	3
[Uimp] Rated Impulse Withstand Voltage	6 kV IEC 60947

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 EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
Mechanical Durability	6 Mcycles
Electrical Durability	1.4 Mcycles 80 A AC-1 <= 440 V
Control Circuit Type	AC 50 Hz
Coil Technology	Without built-in suppressor module
Control Circuit Voltage Limits	0.81.1 Uc -40140 °F (-4060 °C) operational AC 50 Hz 0.30.6 Uc -40158 °F (-4070 °C) drop-out AC 50 Hz 11.1 Uc 140158 °F (6070 °C) operational AC 50 Hz
Inrush Power In Va	160 VA 50 Hz cos phi 0.75 (at 68 °F (20 °C))
Hold-In Power Consumption In Va	15 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C))
Heat Dissipation	45 W at 50 Hz
Operating Time	419 ms opening 1226 ms closing
Maximum Operating Rate	3600 cyc/h 140 °F (60 °C)
Connections - Terminals	Control circuit: screw clamp terminals 2 0.0020.004 in² (12.5 mm²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 0.0020.05 in² (135 mm²) - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 0.0020.04 in² (125 mm²) - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 0.0020.05 in² (135 mm²) - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 0.0020.04 in² (125 mm²) - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 0.0020.05 in² (135 mm²) - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 0.0020.05 in² (135 mm²) - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 0.0020.05 in² (135 mm²) - cable stiffness: solid without cable end
Tightening Torque	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2 Power circuit 70.8 lbf.in (8 N.m) screw clamp terminals 0.040.05 in² (2535 mm²) hexagonal 0.2 in (4 mm) Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2 hexagonal 0.16 in (4 mm)
Mounting Support	Rail

### **Environment**

Standards CSA C22.2

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	GL
	GOST
	UL
	CCC
	CSA
	RINA
	BV
	DNV
	LROS (Lloyds register of shipping)
Ip Degree Of Protection	IP20 front face IEC 60529
Protective Treatment	THIEC 60068-2-30
Climatic Withstand	IACS E10 exposure to damp heat
Permissible Ambient Air	-40140 °F (-4060 °C)
Temperature Around The Device	140158 °F (6070 °C) with derating
Operating Altitude	09842.52 ft (03000 m)
Fire Resistance	1562 °F (850 °C) 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 3 Gn, 5300 Hz)
Height	5.0000000000 in (127 mm)
Width	3.3 in (85 mm)
Depth	4.9 in (125 mm)
Net Weight	3.20 lb(US) (1.45 kg)

## Ordering and shipping details

Category	22357-CTR,TESYS D,OPEN,40-65A AC
Discount Schedule	112
Gtin	3389110072907
Returnability	No
Country Of Origin	CZ

## **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	5.3 in (13.5 cm)
Package 1 Width	3.7 in (9.5 cm)
Package 1 Length	5.1 in (13.0 cm)
Package 1 Weight	3.208 lb(US) (1.455 kg)

# **Contractual warranty**

Warranty	18 months	

## Sustainability Green 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.

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Transparency RoHS/REACh

### Well-being performance

<b>Ø</b>	Reach Free Of Svhc
<b>Ø</b>	Toxic Heavy Metal Free
<b>②</b>	Mercury Free
<b>Ø</b>	Rohs Exemption Information Yes
<b>9</b>	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
California Proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov