



Contactor, TeSys Deca, 4P(4NO),AC-1/440V/60A,220V/ 50Hz AC coil, screw clamp terminal

LC1D40004M5

① Discontinued

! Discontinued on: 30 Sept 2020

! End-of-service on: 17 Oct 2020

EAN Code: 3389110265002

#### Main

Range Of Product	TeSys Deca	
Product Or Component Type	Contactor	
Device Short Name	LC1D	
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 25400 Hz	
[le] Rated Operational Current	60 A (at <60 °C) AC AC-1 for power circuit	
[Uc] Control Circuit Voltage	220 V AC 50 Hz	

### Complementary

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Compatibility Code	LC1D
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	140 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

[Uimp] Rated Impulse Withstand Voltage	6 kV conforming to IEC 60947
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	6000000 cycles
Control Circuit Type	AC at 50 Hz standard
Coil Technology	Without built-in bidirectional peak limiting diode suppressor
Control Circuit Voltage Limits	0.30.6 Uc (60 °C):drop-out AC 50 Hz 0.851.1 Uc (55 °C):operational AC 50 Hz
Inrush Power In Va	140 VA cos phi 0.75 (at 20 °C) 160 VA 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 for control circuit
Operating Time	1226 ms closing 419 ms opening
Maximum Operating Rate	3600 cyc/h 60 °C
Connections - Terminals	Control circuit: screw clamp terminal 1 14 mm² - cable stiffness: solid without cable end  Control circuit: screw clamp terminal 2 12.5 mm² - cable stiffness: flexible with cable end  Control circuit: screw clamp terminal 2 14 mm² - cable stiffness: flexible without cable end  Control circuit: screw clamp terminal 2 14 mm² - cable stiffness: solid without cable end  Power circuit: screw clamp terminal 1 135 mm² - cable stiffness: solid without cable end  Power circuit: screw clamp terminal 2 125 mm² - cable stiffness: solid without cable end  Power circuit: screw clamp terminal 2 135 mm² - cable stiffness: solid without cable end
Tightening Torque	Control circuit: 1.7 N.m - on screw clamp terminal - with screwdriver flat Ø 6 mm Control circuit: 1.7 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 mm Power circuit: 5 N.m - on screw clamp terminal - with screwdriver flat Ø 8 mm
Auxiliary Contacts Type	type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to IEC 60947-4-1
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     1.5 ms on energisation between NC and NO contacts
Mounting Support	Rail Plate
Environment	

Standards

IEC 60947-5-1

CSA C22.2 No 14

EN 60947-5-1

EN 60947-4-1

UL 508

IEC 60947-4-1

Product Certifications	LROS (Lloyds register of shipping) DNV GL RINA BV CSA
	GOST UL CCC UKCA
Ip Degree Of Protection	IP2X conforming to IEC 60529 IP2X conforming to VDE 0106
Protective Treatment	TH (pollution degree 3) conforming to IEC 60068
Permissible Ambient Air Temperature Around The Device	-560 °C -4070 °C at Uc
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 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	9.3 cm
Package 1 Width	13.0 cm
Package 1 Length	13.1 cm
Package 1 Weight	1.43 kg
Unit Type Of Package 2	S02
Number Of Units In Package 2	5
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	7.791 kg

# **Contractual warranty**

Warranty 18 months

## Sustainability Green Premium

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Transparency RoHS/REACh

### Well-being performance

<b>⊘</b>	Reach Free Of Svhc	
<b>②</b>	Toxic Heavy Metal Free	
<b>Ø</b>	Mercury Free	
<b>⊘</b>	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