Product datasheet





Contactor, TeSys Deca, 3P(3NO), AC-3/AC-3e, <=440V, 18A, 36V AC 50/60Hz coil, screw clamp terminals

LC1D18CC7

! Discontinued on: 1 Nov 2023

! Discontinued

Main

Range Of Product	TeSys Deca
Product Or Component Type	Contactor
Device Short Name	LC1D
Contactor Application	Motor control Resistive load
Utilisation Category	AC-3 AC-1 AC-4 AC-3e
Poles Description	3P
[Ue] Rated Operational Voltage	Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC
[le] Rated Operational Current	18 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 32 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 18 A (at <60 °C) at <= 440 V AC AC-3e for power circuit
[Uc] Control Circuit Voltage	36 V AC 50/60 Hz

Complementary

Motor Power Kw	4 kW at 220230 V AC 50/60 Hz (AC-3) 7.5 kW at 380400 V AC 50/60 Hz (AC-3) 9 kW at 415440 V AC 50/60 Hz (AC-3) 10 kW at 500 V AC 50/60 Hz (AC-3) 10 kW at 660690 V AC 50/60 Hz (AC-3) 4 kW at 400 V AC 50/60 Hz (AC-4) 4 kW at 220230 V AC 50/60 Hz (AC-3e) 7.5 kW at 380400 V AC 50/60 Hz (AC-3e) 9 kW at 415440 V AC 50/60 Hz (AC-3e) 10 kW at 500 V AC 50/60 Hz (AC-3e)
Motor Power Hp	1 hp at 115 V AC 50/60 Hz for 1 phase motors 3 hp at 230/240 V AC 50/60 Hz for 1 phase motors 5 hp at 200/208 V AC 50/60 Hz for 3 phases motors 5 hp at 230/240 V AC 50/60 Hz for 3 phases motors 10 hp at 460/480 V AC 50/60 Hz for 3 phases motors 15 hp at 575/600 V AC 50/60 Hz for 3 phases motors
Compatibility Code	LC1D
Pole Contact Composition	3 NO
Contact Compatibility	M2
Protective Cover	With
[Ith] Conventional Free Air Thermal Current	10 A (at 60 °C) for signalling circuit 32 A (at 60 °C) for power circuit

Life Is On Schneider 25 Apr 2024

-	
Irms Rated Making Capacity	140 A AC for signalling circuit conforming to IEC 60947-5-1
	250 A DC for signalling circuit conforming to IEC 60947-5-1
	300 A at 440 V for power circuit conforming to IEC 60947
Rated Breaking Capacity	300 A at 440 V for power circuit conforming to IEC 60947
[Icw] Rated Short-Time Withstand	145 A 40 °C - 10 s for power circuit
Current	240 A 40 °C - 1 s for power circuit
	40 A 40 °C - 10 min for power circuit
	84 A 40 °C - 1 min for power circuit
	100 A - 1 s for signalling circuit
	120 A - 500 ms for signalling circuit
	140 A - 100 ms for signalling circuit
Associated Fuse Rating	10 A gG for signalling circuit conforming to IEC 60947-5-1
	50 A gG at <= 690 V coordination type 1 for power circuit
	35 A gG at <= 690 V coordination type 2 for power circuit
Average Impedance	2.5 mOhm - Ith 32 A 50 Hz for power circuit
Power Dissipation Per Pole	2.5 W AC-1
	0.8 W AC-3
	0.8 W AC-3e
[Ui] Rated Insulation Voltage	Power circuit: 690 V conforming to IEC 60947-4-1
[] . tatou modication voltage	Power circuit: 690 V CSA certified
	Power circuit: 600 V UL certified
	Signalling circuit: 690 V conforming to IEC 60947-1
	Signalling circuit: 600 V CSA certified
	Signalling circuit: 600 V UL certified
Overvoltage Category	III
Pollution Degree	3
[Uimp] Rated Impulse Withstand Voltage	6 kV conforming to IEC 60947
	D404 = 4200002 avales contestes with promined lead conforming to FN/ICO 42040 4
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
	10040-1
Mechanical Durability	15 Mcycles
Electrical Durability	1.65 Mcycles 18 A AC-3 at Ue <= 440 V
	1 Mcycles 32 A AC-1 at Ue <= 440 V
	1.65 Mcycles 18 A AC-3e 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
5	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	70 VA 60 Hz cos phi 0.75 (at 20 °C)
	70 VA 50 Hz cos phi 0.75 (at 20 °C)
Hold in Bowen Or	75//4 00 //
Hold-In Power Consumption In Va	7.5 VA 60 Hz cos phi 0.3 (at 20 °C) 7 VA 50 Hz cos phi 0.3 (at 20 °C)
Heat Dissipation	23 W at 50/60 Hz
Operating Time	1222 ms closing
	419 ms opening
Maximum Operating Rate	3600 cyc/h 60 °C
-	•

Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: flexible without
cable end
Control circuit: screw clamp terminals 2 14 mm ² - cable stiffness: flexible without cable end
Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable end
Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with cable end
Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable end
Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without
cable end Power circuit: screw clamp terminals 1 1.56 mm² - cable stiffness: flexible without
cable end Power circuit: screw clamp terminals 2 1.56 mm² - cable stiffness: flexible without
cable end Power circuit: screw clamp terminals 1 16 mm² - cable stiffness: flexible with cable
end Power circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible with cable
end Power circuit: screw clamp terminals 1 1.56 mm² - cable stiffness: solid without
cable end Power circuit: screw clamp terminals 2 1.56 mm² - cable stiffness: solid without
cable end
Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm
Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 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
Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2
1 NO + 1 NC
type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to IEC 60947-4-1
25400 Hz
17 V for signalling circuit
5 mA for signalling circuit
5 mA for signalling circuit > 10 MOhm for signalling circuit
> 10 MOhm for signalling circuit 1.5 ms on de-energisation between NC and NO contact
> 10 MOhm for signalling circuit 1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact Plate
> 10 MOhm for signalling circuit 1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact Plate
> 10 MOhm for signalling circuit 1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact Plate Rail CSA C22.2 No 14
> 10 MOhm for signalling circuit 1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact Plate Rail CSA C22.2 No 14 EN 60947-4-1
> 10 MOhm for signalling circuit 1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact Plate Rail CSA C22.2 No 14
> 10 MOhm for signalling circuit 1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact Plate Rail CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1
> 10 MOhm for signalling circuit 1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact Plate Rail CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1
> 10 MOhm for signalling circuit 1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact Plate Rail CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 GOST
> 10 MOhm for signalling circuit 1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact Plate Rail CSA C22.2 No 14 EN 60947-4-1 EN 60947-4-1 IEC 60947-4-1 IEC 60947-5-1 UL 508
> 10 MOhm for signalling circuit 1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact Plate Rail CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 GOST UL
> 10 MOhm for signalling circuit 1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact Plate Rail CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-5-1 UL 508 GOST UL BV CCC RINA
> 10 MOhm for signalling circuit 1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact Plate Rail CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 GOST UL BV CCC RINA DNV
> 10 MOhm for signalling circuit 1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact Plate Rail CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-5-1 UL 508 GOST UL BV CCC RINA
> 10 MOhm for signalling circuit 1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact Plate Rail CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-5-1 UL 508 GOST UL BV CCC RINA DNV LROS (Lloyds register of shipping)
> 10 MOhm for signalling circuit 1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact Plate Rail CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-5-1 UL 508 GOST UL BV CCC RINA DNV LROS (Lloyds register of shipping) CSA GL
> 10 MOhm for signalling circuit 1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact Plate Rail CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-5-1 UL 508 GOST UL BV CCC RINA DNV LROS (Lloyds register of shipping) CSA GL UKCA
> 10 MOhm for signalling circuit 1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact Plate Rail CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-5-1 UL 508 GOST UL BV CCC RINA DNV LROS (Lloyds register of shipping) CSA GL UKCA IP20 front face conforming to IEC 60529

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	Vibrations contactor open (2 Gn, 5300 Hz) Vibrations contactor closed (4 Gn, 5300 Hz) Shocks contactor open (10 Gn for 11 ms) Shocks contactor closed (15 Gn for 11 ms)	
Height	77 mm	
Width	45 mm	
Depth	86 mm	
Net Weight	0.33 kg	

Packing Units

Unit Type Of Package 1	PCE
	100
Number Of Units In Package 1	1
Package 1 Height	5.5 cm
Package 1 Width	8.2 cm
Package 1 Length	9.5 cm
Package 1 Weight	350.0 g

Contractual warranty

Warranty 18 months



Green PremiumTM **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-CO₂ 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
②	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	End of Life Information