

# Product data sheet

Specifications



## TeSys D - star delta starter - 3 x 3P (3 NO) - 18 A - 42 V AC coil

LC3D18AD7

⚠ Discontinued

### Main

Range	TeSys
Product Name	TeSys D
Product Or Component Type	Star delta starter
Device Short Name	LC3D
Contactor Application	Motor control
Utilisation Category	AC-3
Device Presentation	Pre-wired
Poles Description	3 x 3P
Power Pole Contact Composition	3 x 3 NO
[Ue] Rated Operational Voltage	Power circuit: <= 690 V AC 25...400 Hz
[Ie] Rated Operational Current	18 A (at <60 °C) at <= 440 V AC AC-3 for power circuit
Motor Power Kw	11 kW at 220/230 V AC 50/60 Hz 22 kW at 415 V AC 50/60 Hz 22 kW at 440 V AC 50/60 Hz 18.5 kW at 380/400 V AC 50/60 Hz
Control Circuit Type	AC at 50/60 Hz
[Uc] Control Circuit Voltage	42 V AC 50/60 Hz
Auxiliary Contact Composition	1 NC for KM1 star contactor
[Uimp] Rated Impulse Withstand Voltage	6 kV conforming to IEC 60947
Overvoltage Category	III
[Ui] Rated Insulation Voltage	Power circuit: 690 V conforming to IEC 60947-4-1 Power circuit: 600 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
Electrical Durability	1.65 Mcycles 18 A AC-3 at Ue <= 440 V
Safety Cover	Protective cover
Interlocking Type	Mechanical
Mounting Support	Plate
Standards	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 UL 508 IEC 60947-5-1 IEC 60947-4-1

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

<b>Product Certifications</b>	CSA GOST BV RINA LROS (Lloyds register of shipping) UL GL DNV CCC
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## Complementary

<b>Connections - Terminals</b>	Control circuit: screw clamp terminals 1 1...4 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 1...4 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 1...4 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 1...2.5 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 1...4 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 1...4 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 1.5...6 mm² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 1.5...6 mm² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 1...6 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 1...4 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 1.5...6 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 1.5...6 mm² - cable stiffness: solid without cable end
<b>Tightening Torque</b>	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
<b>Maximum Operating Rate</b>	30 cyc/h 60 °C
<b>Starting Time</b>	30 s
<b>Coil Technology</b>	Without built-in suppressor module
<b>Control Circuit Voltage Limits</b>	Drop-out: 0.3...0.6 Uc at 50/60 Hz (at <60 °C) Operational: 0.8...1.1 Uc at 50 Hz (at <60 °C) Operational: 0.85...1.1 Uc at 60 Hz (at <60 °C)
<b>Inrush Power In Va</b>	70 VA 60 Hz cos phi 0.75 (at 20 °C) 70 VA 50 Hz cos phi 0.75 (at 20 °C)
<b>Hold-In Power Consumption In Va</b>	7.5 VA 60 Hz cos phi 0.3 (at 20 °C) 7 VA 50 Hz cos phi 0.3 (at 20 °C)
<b>Heat Dissipation</b>	2...3 W at 50/60 Hz
<b>Auxiliary Contacts Type</b>	Mechanically linked conforming to IEC 60947-5-1 3 x 1 NO + 1 NC Mirror contact conforming to IEC 60947-4-1 3 x 1 NC
<b>Signalling Circuit Frequency</b>	25...400 Hz
<b>Minimum Switching Current</b>	5 mA for signalling circuit
<b>Minimum Switching Voltage</b>	17 V for signalling circuit
<b>Non-Overlap Time</b>	1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact
<b>Width</b>	144 mm
<b>Height</b>	124 mm
<b>Depth</b>	143 mm
<b>Net Weight</b>	1.73 kg

## Environment

Insulation Resistance	> 10 MOhm for signalling circuit
Ip Degree Of Protection	IP2X front face conforming to IEC 60529
Protective Treatment	TH conforming to IEC 60068-2-30
Pollution Degree	3
Ambient Air Temperature For Storage	-60...80 °C
Ambient Air Temperature For Operation	-40...70 °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	Vibrations contactor open: 2 Gn, 5...300 Hz Vibrations contactor closed: 4 Gn, 5...300 Hz Shocks contactor open: 10 Gn for 11 ms Shocks contactor closed: 15 Gn for 11 ms

## Contractual warranty

Warranty	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 >](#)

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## Well-being performance

✓	Reach Free Of Svhc	
✓	Toxic Heavy Metal Free	
✓	Mercury Free	
✓	Rohs Exemption Information	Yes
✓	Pvc Free	
Eu Rohs Directive		Compliant <a href="#">EU RoHS Declaration</a>
China Rohs Regulation		<a href="#">China RoHS declaration</a> Pro-active China RoHS declaration (out of China RoHS legal scope)