

# Product data sheet

Specifications



## TeSys Deca , star delta starter , 3 x 3P (3 NO) , 32 A , 120 V coil

LC3D320AG7

**Product availability: Non-Stock - Not normally stocked in distribution facility**

### Main

Range	TeSys TeSys Deca
Product name	TeSys Deca
Product or Component Type	Star delta starter
Device short name	LC3D
Contacteur 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	32 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit
Motor power kW	15 kW 220/230 V AC 50/60 Hz 25 kW 380/400 V AC 50/60 Hz 30 kW 415 V AC 50/60 Hz 30 kW 440 V AC 50/60 Hz
Control circuit type	AC 50/60 Hz
[Uc] control circuit voltage	120 V 50/60 Hz
Auxiliary contact composition	1 NC KM1 star contactor
[Uimp] rated impulse withstand voltage	8 kV IEC 60947
Overvoltage category	III
[Ui] rated insulation voltage	Power circuit 600 V CSA Power circuit 600 V UL Signalling circuit 600 V CSA Signalling circuit 600 V UL Power circuit 1000 V IEC 60947-4-1 Signalling circuit 1000 V IEC 60947-1
Electrical durability	1.65 Mcycles 32 A AC-3 <= 440 V
safety cover	Protective cover
Interlocking type	Mechanical
Mounting Support	Rail
Standards	IEC 60947-5-1 UL 508 EN 60947-4-1 CSA C22.2 No 14 EN 60947-5-1 IEC 60947-4-1 IEC 60335-1

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

<b>Product Certifications</b>	<ul style="list-style-type: none"> <li>UL</li> <li>GOST</li> <li>LROS (Lloyds register of shipping)</li> <li>RINA</li> <li>DNV</li> <li>CSA</li> <li>CCC</li> <li>BV</li> <li>GL</li> </ul>
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## Complementary

<b>Connections - terminals</b>	<p>Control circuit: screw clamp terminals 1 0.002...0.006 in<sup>2</sup> (1...4 mm<sup>2</sup>) - cable stiffness: flexible without cable end</p> <p>Control circuit: screw clamp terminals 2 0.002...0.006 in<sup>2</sup> (1...4 mm<sup>2</sup>) - cable stiffness: flexible without cable end</p> <p>Control circuit: screw clamp terminals 1 0.002...0.006 in<sup>2</sup> (1...4 mm<sup>2</sup>) - cable stiffness: flexible with cable end</p> <p>Control circuit: screw clamp terminals 2 0.002...0.004 in<sup>2</sup> (1...2.5 mm<sup>2</sup>) - cable stiffness: flexible with cable end</p> <p>Control circuit: screw clamp terminals 1 0.002...0.006 in<sup>2</sup> (1...4 mm<sup>2</sup>) - cable stiffness: solid without cable end</p> <p>Control circuit: screw clamp terminals 2 0.002...0.006 in<sup>2</sup> (1...4 mm<sup>2</sup>) - cable stiffness: solid without cable end</p> <p>Power circuit: screw clamp terminals 1 0.004...0.02 in<sup>2</sup> (2.5...10 mm<sup>2</sup>) - cable stiffness: flexible without cable end</p> <p>Power circuit: screw clamp terminals 2 0.004...0.02 in<sup>2</sup> (2.5...10 mm<sup>2</sup>) - cable stiffness: flexible without cable end</p> <p>Power circuit: screw clamp terminals 1 0.002...0.02 in<sup>2</sup> (1...10 mm<sup>2</sup>) - cable stiffness: flexible with cable end</p> <p>Power circuit: screw clamp terminals 2 0.002...0.009 in<sup>2</sup> (1.5...6 mm<sup>2</sup>) - cable stiffness: flexible with cable end</p> <p>Power circuit: screw clamp terminals 1 0.002...0.02 in<sup>2</sup> (1.5...10 mm<sup>2</sup>) - cable stiffness: solid without cable end</p> <p>Power circuit: screw clamp terminals 2 0.004...0.02 in<sup>2</sup> (2.5...10 mm<sup>2</sup>) - cable stiffness: solid without cable end</p>
<b>Tightening torque</b>	<p>Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm</p> <p>Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2</p> <p>Power circuit 22.1 lbf.in (2.5 N.m) screw clamp terminals flat Ø 6 mm</p> <p>Power circuit 22.1 lbf.in (2.5 N.m) screw clamp terminals Philips No 2</p> <p>Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2</p> <p>Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2</p>
<b>Mechanical durability</b>	15 Mcycles
<b>Maximum operating rate</b>	30 cyc/h 140 °F (60 °C)
<b>Starting time</b>	30 s
<b>Coil technology</b>	Without built-in suppressor module
<b>Control circuit voltage limits</b>	<p>Drop-out: 0.3...0.6 Uc at 50/60 Hz (at &lt;140 °F (60 °C))</p> <p>Operational: 0.8...1.1 Uc at 50 Hz (at &lt;140 °F (60 °C))</p> <p>Operational: 0.85...1.1 Uc at 60 Hz (at &lt;140 °F (60 °C))</p>
<b>Inrush power in VA</b>	<p>70 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C))</p> <p>70 VA 50 Hz cos phi 0.75 (at 68 °F (20 °C))</p>
<b>Hold-in power consumption in VA</b>	<p>7.5 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C))</p> <p>7 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C))</p>
<b>Heat dissipation</b>	2...3 W 50/60 Hz
<b>Auxiliary contacts type</b>	<p>Mechanically linked IEC 60947-5-1 3 x 1 NO + 1 NC</p> <p>Mirror contact IEC 60947-4-1 3 x 1 NC</p>
<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 signalling circuit
<b>Non-overlap time</b>	<p>1.5 ms on de-energisation between NC and NO contact</p> <p>1.5 ms on energisation between NC and NO contact</p>
<b>Width</b>	6.5 in (166 mm)

Height	4.9 in (124 mm)
Depth	5.9 in (149 mm)
Net Weight	4.48 lb(US) (2.03 kg)

## Environment

Insulation resistance	> 10 MOhm for signalling circuit
IP degree of protection	IP2X front face IEC 60529
Climatic withstand	IACS E10 IEC 60947-1 Annex Q category D
Protective treatment	TH IEC 60068-2-30
Pollution degree	3
Ambient Air Temperature for Storage	-76...176 °F (-60...80 °C)
Ambient air temperature for operation	-40...158 °F (-40...70 °C) at Uc
Operating altitude	9842.52 ft (3000 m) without derating
Fire resistance	1562 °F (850 °C) IEC 60695-2-1
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Vibrations contactor open2 Gn, 5...300 Hz Vibrations contactor closed4 Gn, 5...300 Hz Shocks contactor closed15 Gn for 11 ms Shocks contactor open8 Gn for 11 ms

## Ordering and shipping details

Category	US1CP1018400
Discount Schedule	CP10
GTIN	3389110508604
Returnability	No
Country of origin	FR

## Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	7.09 in (18.0 cm)
Package 1 Width	6.3 in (16.0 cm)
Package 1 Length	9.3 in (23.5 cm)
Package weight(Lbs)	4.48 lb(US) (2.03 kg)

## Contractual warranty

Warranty	18 months
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## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

 <b>Environmental footprint</b>	
Carbon footprint (kg CO2 eq, Total Life cycle)	449
Environmental Disclosure	<a href="#">Product Environmental Profile</a>

### Use Better

 <b>Materials and Substances</b>	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
<a href="#">EU RoHS Directive</a>	Compliant
REACH Regulation	<a href="#">REACH Declaration</a>
California proposition 65	<b>WARNING:</b> 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
PVC free	Yes

### Use Again

 <b>Repack and remanufacture</b>	
Circularity Profile	<a href="#">End of Life Information</a>
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.