

LC3D18AN7

TeSys; TeSys Deca, star delta starter , 3 x 3P  
(3 NO) , 18 A , 415 V AC coil



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	415 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	IEC 60947-4-1 IEC 60947-5-1 EN 60947-4-1 CSA C22.2 No 14 EN 60947-5-1 UL 508
Product certifications	GOST[RETURN]RINA[RETURN]CCC[RETURN]UL[RETURN]UL[RETURN] (Lloyds register of shipping) [RETURN]CSA[RETURN]DNV

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## Complementary

Connections - terminals	<p>Control circuit: screw clamp terminals 1 1...4 mm<sup>2</sup> - cable stiffness: flexible without cable end</p> <p>Control circuit: screw clamp terminals 2 1...4 mm<sup>2</sup> - cable stiffness: flexible without cable end</p> <p>Control circuit: screw clamp terminals 1 1...4 mm<sup>2</sup> - cable stiffness: flexible with cable end</p> <p>Control circuit: screw clamp terminals 2 1...2.5 mm<sup>2</sup> - cable stiffness: flexible with cable end</p> <p>Control circuit: screw clamp terminals 1 1...4 mm<sup>2</sup> - cable stiffness: solid without cable end</p> <p>Control circuit: screw clamp terminals 2 1...4 mm<sup>2</sup> - cable stiffness: solid without cable end</p> <p>Power circuit: screw clamp terminals 1 1.5...6 mm<sup>2</sup> - cable stiffness: flexible without cable end</p> <p>Power circuit: screw clamp terminals 2 1.5...6 mm<sup>2</sup> - cable stiffness: flexible without cable end</p> <p>Power circuit: screw clamp terminals 1 1...6 mm<sup>2</sup> - cable stiffness: flexible with cable end</p> <p>Power circuit: screw clamp terminals 2 1...4 mm<sup>2</sup> - cable stiffness: flexible with cable end</p> <p>Power circuit: screw clamp terminals 1 1.5...6 mm<sup>2</sup> - cable stiffness: solid without cable end</p> <p>Power circuit: screw clamp terminals 2 1.5...6 mm<sup>2</sup> - cable stiffness: solid without cable end</p>
Tightening torque	<p>Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm</p> <p>Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2</p> <p>Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm</p> <p>Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2</p>
Maximum operating rate	30 cyc/h 60 °C
Starting time	30 s
Coil technology	Without built-in suppressor module
Control circuit voltage limits	<p>Drop-out: 0.3...0.6 U<sub>c</sub> at 50/60 Hz (at &lt;60 °C)</p> <p>Operational: 0.8...1.1 U<sub>c</sub> at 50 Hz (at &lt;60 °C)</p> <p>Operational: 0.85...1.1 U<sub>c</sub> at 60 Hz (at &lt;60 °C)</p>
Inrush power in VA	<p>70 VA 60 Hz cos phi 0.75 (at 20 °C)</p> <p>70 VA 50 Hz cos phi 0.75 (at 20 °C)</p>
Hold-in power consumption in VA	<p>7.5 VA 60 Hz cos phi 0.3 (at 20 °C)</p> <p>7 VA 50 Hz cos phi 0.3 (at 20 °C)</p>
Heat dissipation	2...3 W at 50/60 Hz
Auxiliary contacts type	<p>Mechanically linked conforming to IEC 60947-5-1 3 x 1 NO + 1 NC</p> <p>Mirror contact conforming to IEC 60947-4-1 3 x 1 NC</p>
Signalling circuit frequency	25...400 Hz
Minimum switching current	5 mA for signalling circuit
Minimum switching voltage	17 V for signalling circuit
Non-overlap time	<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>
Width	144 mm
Height	124 mm
Depth	143 mm
Net weight	1.73 kg

## Environment




Insulation resistance	> 10 MOhm for signalling circuit
IP degree of protection	IP20 front face conforming to IEC 60529
Climatic withstand	<p>Conforming to IACS E10</p> <p>Conforming to IEC 60947-1 Annex Q category D</p>
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 U <sub>c</sub>
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

### Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	18 cm
Package 1 Width	16 cm
Package 1 Length	23.5 cm
Package 1 Weight	1.73 kg

### Offer Sustainability

REACH free of SVHC	Yes
EU RoHS Directive	Compliant  <a href="#">EU RoHS Declaration</a>
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	 <a href="#">China RoHS Declaration</a>
RoHS exemption information	 Yes
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes

### Contractual warranty

Warranty	18 months
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