

LC3D180AP7

TeSys Deca , star delta starter , 3 x 3P (3 NO) ,
18 A , 230 V AC coil



Main

Range	TeSys TeSys Deca
Product name	TeSys Deca
Product or Component Type	Star delta starter
Device short name	LC3D
Contactors 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 <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit
Motor power kW	11 KW 220/230 V AC 50/60 Hz 22 KW 415 V AC 50/60 Hz 22 KW 440 V AC 50/60 Hz 18.5 kW 380/400 V AC 50/60 Hz
Control circuit type	AC 50/60 Hz
[Uc] control circuit voltage	230 V AC 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 18 A AC-3 <= 440 V
Safety cover	Protective cover
Interlocking type	Mechanical
Mounting Support	Rail
Standards	EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 CSA C22.2 No 14 UL 508 IEC 60335-1
Product Certifications	DNV[RETURN]CSA[RETURN]RINA[RETURN]LROS (Lloyds register of shipping) [RETURN]GOST[RETURN]UL[RETURN]CCC[RETURN]ETU

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended to be used as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Complementary

Connections - terminals	Control circuit: screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 0.002...0.006 in ² (1...4 mm ²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 0.002...0.004 in ² (1...2.5 mm ²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²) - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 0.002...0.006 in ² (1...4 mm ²) - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 0.002...0.009 in ² (1.5...6 mm ²) - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 0.002...0.009 in ² (1.5...6 mm ²) - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 0.002...0.009 in ² (1...6 mm ²) - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 0.002...0.006 in ² (1...4 mm ²) - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 0.002...0.009 in ² (1.5...6 mm ²) - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 0.002...0.009 in ² (1.5...6 mm ²) - cable stiffness: solid without cable end
Tightening torque	Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2 Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2 Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2 Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2
Maximum operating rate	30 cyc/h 140 °F (60 °C)
Starting time	30 s
Coil technology	Without built-in suppressor module
Control circuit voltage limits	Drop-out: 0.3...0.6 Uc at 50/60 Hz (at <140 °F (60 °C)) Operational: 0.8...1.1 Uc at 50 Hz (at <140 °F (60 °C)) Operational: 0.85...1.1 Uc at 60 Hz (at <140 °F (60 °C))
Inrush power in VA	70 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C)) 70 VA 50 Hz cos phi 0.75 (at 68 °F (20 °C))
Hold-in power consumption in VA	7.5 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) 7 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C))
Heat dissipation	2...3 W 50/60 Hz
Auxiliary contacts type	Mechanically linked IEC 60947-5-1 3 x 1 NO + 1 NC Mirror contact IEC 60947-4-1 3 x 1 NC
Signalling circuit frequency	25...400 Hz
Minimum switching current	5 mA for signalling circuit
Minimum switching voltage	17 V signalling circuit
Non-overlap time	1.5 Ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact
Width	5.7 in (144 mm)
Height	4.9 in (124 mm)
Depth	5.6 in (143 mm)
Net Weight	3.81 lb(US) (1.73 kg)

Environment

Insulation resistance	> 10 MOhm for signalling circuit
IP degree of protection	IP20 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 open10 Gn for 11 ms Shocks contactor closed15 Gn for 11 ms

Ordering and shipping details

Category	US1CP1018400
Discount Schedule	CP10
GTIN	3389110549706
Returnability	No
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.890 in (17.500 cm)
Package 1 Width	6.299 in (16.000 cm)
Package 1 Length	9.055 in (23.000 cm)
Package 1 Weight	3.549 lb(US) (1.610 kg)
Unit Type of Package 2	P06
Number of Units in Package 2	27
Package 2 Height	29.528 in (75.000 cm)
Package 2 Width	23.622 in (60.000 cm)
Package 2 Length	31.496 in (80.000 cm)
Package 2 Weight	126.766 lb(US) (57.500 kg)

Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: 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 www.P65Warnings.ca.gov
REACH Regulation	REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Compliant EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
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
----------	-----------