Product data sheet
Characteristics

LC3D090AP7
TeSys Deca - star delta starter - 3 x 3P (3 NO) - 9 A - 230 V AC coil

Main

Range	TeSys TeSys Deca
Product name	TeSys D TeSys Deca
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
Pole contact composition	3 x 3 NO
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25...400 Hz
[Ie] rated operational current	9 A (at <60 °C) at <= 440 V AC AC-3 for power circuit
Motor power kW	4 KW at 220/230 V AC 50/60 Hz 7.5 KW at 380/400 V AC 50/60 Hz 7.5 KW at 415 V AC 50/60 Hz 7.5 KW at 440 V AC 50/60 Hz
Control circuit type	AC at 50/60 Hz
[Uc] control circuit voltage	230 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	2 Mcycles 9 A AC-3 at Ue <= 440 V
Provided equipment	Protective cover
Interlocking type	Mechanical
Mounting support	Rail

Standards	IEC 60947-5-1 CSA C22.2 No 14 IEC 60947-4-1 EN 60947-4-1 UL 508 EN 60947-5-1 IEC 60335-1
Product certifications	RINA CCC BV UL GOST LROS (Lloyds register of shipping) GL DNV CSA

Complementary

Connections - terminals	Power circuit: screw clamp terminals 1 1…4 mm² - cable stiffness: flexible without-cable end Power circuit: screw clamp terminals 2 1…4 mm² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 1…4 mm² - cable stiffness: flexible with-cable end Power circuit: screw clamp terminals 2 1…2.5 mm² - cable stiffness: flexible with-cable end Power circuit: screw clamp terminals 1 1…4 mm² - cable stiffness: solid without-cable end Power circuit: screw clamp terminals 2 1…4 mm² - cable stiffness: solid without-cable end 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
Tightening torque	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 Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver-pozidriv No 2 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver-pozidriv No 2
Mechanical durability	15 Mcycles
Maximum operating rate	30 Cyc/H 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 <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)
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 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	2…3 W at 50/60 Hz
Auxiliary contacts type	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
Signalling circuit frequency	25...400 Hz
Minimum switching current	5 MA for signalling circuit
Switching voltage	17 V for 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	143 Mm
Height	124 Mm

Depth	143 Mm
Net weight	1.53 Kg

Environment

Insulation resistance	> 10 MOhm for signalling circuit
IP degree of protection	IP20 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

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	1.462 Kg
Package 1 Height	16.0 Cm
Package 1 width	18.0 Cm
Package 1 Length	23.5 Cm
Unit Type of Package 2	S04
Number of Units in Package 2	6
Package 2 Weight	10.024 Kg
Package 2 Height	30.0 Cm
Package 2 width	40.0 Cm
Package 2 Length	60.0 Cm

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Compliant EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
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

Product Life Status : Commercialised