# Product data sheet Characteristics

## LC3D150P7A64

TeSys D - star delta starter - 3 x 3P (3 NO) - 150 A - 230 V AC coil





IVIAIII		
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 25400 Hz	
[le] rated operational current	150 A (at <60 °C) at <= 440 V AC AC-3 for power circuit	
Motor power kW	132 kW at 380/400 V AC 50/60 Hz 132 kW at 415 V AC 50/60 Hz 147 kW at 440 V AC 50/60 Hz 75 kW at 220/230 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 1 NC for KM2 line contactor 1 NO for KM3 delta contactor	
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947	
Overvoltage category	III	
[Ui] rated insulation voltage	Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Signalling circuit: 600 V CSA certified Signalling circuit: 600 V UL certified Power circuit: 1000 V conforming to IEC 60947-4-1 Signalling circuit: 1000 V conforming to IEC 60947-1	
Electrical durability	0.85 Mcycles 150 A AC-3 at Ue <= 440 V	
Interlocking type	Mechanical	
Mounting support	Plate	

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

Complementary

Complementary	
Connections - terminals	Power circuit: connector 1 10120 mm² - cable stiffness: flexible without cable end Power circuit: connector 2 1050 mm² - cable stiffness: flexible without cable end Power circuit: connector 1 10120 mm² - cable stiffness: flexible with cable end Power circuit: connector 2 1050 mm² - cable stiffness: flexible with cable end Power circuit: connector 1 10120 mm² - cable stiffness: solid without cable end Power circuit: connector 2 1050 mm² - cable stiffness: solid without cable end Control circuit: connector 1 12.5 mm² - cable stiffness: flexible without cable end Control circuit: connector 2 12.5 mm² - cable stiffness: flexible without cable end Control circuit: connector 1 12.5 mm² - cable stiffness: flexible with cable end Control circuit: connector 2 12.5 mm² - cable stiffness: flexible with cable end Control circuit: connector 1 12.5 mm² - cable stiffness: solid without cable end Control circuit: connector 1 12.5 mm² - cable stiffness: solid without cable end Control circuit: connector 2 12.5 mm² - cable stiffness: solid without cable end
Tightening torque	Power circuit: 12 N.m - on connector - with screwdriver flat $\emptyset$ 68 mm Control circuit: 1.2 N.m - on connector - with screwdriver flat $\emptyset$ 6 mm Control circuit: 1.2 N.m - on connector - with screwdriver Philips No 2
Mechanical durability	8 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: 0.30.5 Uc at 50/60 Hz (at <55 °C) Operational: 0.81.15 Uc at 50/60 Hz (at <55 °C)
Inrush power in VA	280350 VA 60 Hz cos phi 0.9 (at 20 °C) 280350 VA 50 Hz cos phi 0.9 (at 20 °C)
Hold-in power consumption in VA	218 VA 60 Hz cos phi 0.9 (at 20 °C) 218 VA 50 Hz cos phi 0.9 (at 20 °C)
Heat dissipation	34.5 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	25400 Hz
Minimum switching current	5 mA for signalling circuit
Minimum 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	450 mm
Height	555 mm
Depth	205 mm
Net weight	12.1 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	-6080 °C

Ambient air temperature for operation	-4070 °C at Uc
Operating altitude	3000 m without
Fire resistance	850 °C conforming to IEC 60695-2-1
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Vibrations contactor open: 2 Gn, 5300 Hz Vibrations contactor closed: 4 Gn, 5300 Hz Shocks contactor closed: 15 Gn for 11 ms Shocks contactor open: 6 Gn for 11 ms

### 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

#### Contractual warranty

Warranty	18 months	