Product data sheet Characteristics

LC3D80F7

TeSys D - star delta starter - 3 x 3P (3 NO) - 80 A - 110 V AC coil





Main

Range	TeSys	s for §
Product name	TeSys D	products for
Product or component type	Star delta starter	
Device short name	LC3D	of thes
Contactor application	Motor control	suitability or reliability of these
Utilisation category	AC-3	reliak
Device presentation	Pre-wired Pre-wired	ity or
Poles description	3 x 3P	itabil
Power pole contact composition	3 x 3 NO	
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25400 Hz	-imin
[le] rated operational current	80 A (at <60 °C) at <= 440 V AC AC-3 for power circuit	r dete
Motor power kW	37 kW at 220/230 V AC 50/60 Hz 75 kW at 380/400 V AC 50/60 Hz 75 kW at 415 V AC 50/60 Hz 75 kW at 440 V AC 50/60 Hz	not to be used for determining
Control circuit type	AC at 50/60 Hz	.છ
[Uc] control circuit voltage	110 V AC 50/60 Hz	for an
Auxiliary contact composition	1 NC for KM2 line contactor 1 NO for KM3 delta contactor	substitute for and
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947	a
Overvoltage category	III	ed as
[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 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	Disclaimer: This documentation is not intended
Electrical durability	10 Mcycles 80 A AC-3 at Ue <= 440 V	s doc
Mounting support	Plate	Ę.
Standards	IEC 60947-5-1 CSA C22.2 No 14	l Disclaime

	IEC 60947-4-1 EN 60947-5-1 UL 508 EN 60947-4-1
Product certifications	GOST UL BV RINA
	LROS (Lloyds register of shipping) DNV CSA GL CCC

Complementary

Connections - terminals	Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 450 mm² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 425 mm² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 450 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 416 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 450 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 425 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 1 12.5 mm² - cable stiffness: flexible with cable end			
Tightening torque	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: 9 N.m - on screw clamp terminals - with screwdriver flat Ø 68 mm			
Mechanical durability	4 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: 0.30.6 Uc at 50/60 Hz (at <55 °C) Operational: 0.81.1 Uc at 50 Hz (at <55 °C) Operational: 0.851.1 Uc at 60 Hz (at <55 °C)			
Inrush power in VA	140 VA 60 Hz cos phi 0.75 (at 20 °C) 160 VA 50 Hz cos phi 0.75 (at 20 °C)			
Hold-in power consumption in VA	13 VA 60 Hz cos phi 0.3 (at 20 °C) 15 VA 50 Hz cos phi 0.3 (at 20 °C)			
Heat dissipation	45 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	311 mm			
Height	143 mm			
Depth	183 mm			
Net weight	5.2 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 Shocks contactor open: 8 Gn for 11 ms Vibrations contactor closed: 3 Gn, 5300 Hz Shocks contactor closed: 10 Gn for 11 ms		

Offer Sustainability

WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins		
Circularity Profile	End of Life Information		
Environmental Disclosure	Product Environmental Profile		
China RoHS Regulation	China RoHS declaration		
RoHS exemption information	Yes		
Mercury free	Yes		
Toxic heavy metal free	Yes		
EU RoHS Directive	Compliant EU RoHS Declaration		
REACh free of SVHC	Yes		
REACh Regulation	REACh Declaration		
Sustainable offer status	Green Premium product		

Contractual warranty

Warranty	18 months	