Product data sheet
Characteristics

LC1D17000P7C
Contactor,TeSys Deca,3P(3NO),AC-3,<=440V,170A,230V AC coil,Screw terminal

Main

Range	TeSys Deca
Range of product	TeSys Deca
Product or component type	Contactor
Device short name	LC1D
Contactor application	Resistive load Motor control
Utilisation category	AC-1 AC-3 AC-3e
Poles description	3P
[Ue] rated operational voltage	Power circuit: <= 300 V DC Power circuit: <= 1000 V AC 25...400 Hz
[Ie] rated operational current	200 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 170 A (at <60 °C) at <= 440 V AC AC-3 for power circuit
[Uc] control circuit voltage	230 V AC 50/60 Hz

Complementary

Motor power kW	55 KW at 220/240 V AC 50/60 Hz (AC-3) 90 KW at 380/400 V AC 50/60 Hz (AC-3) 100 KW at 415/440 V AC 50/60 Hz (AC-3) 110 KW at 500 V AC 50/60 Hz (AC-3) 110 KW at 660/690 V AC 50/60 Hz (AC-3) 100 kW at 1000 V AC 50/60 Hz (AC-3)
Compatibility code	LC1D
Pole contact composition	3 NO
Protective cover	Without
[Ith] conventional free air thermal current	200 A (at 60 °C) for power circuit
[Icw] rated short-time withstand current	250 A 40 °C - 10 min for power circuit 1400 A 40 °C - 1 s for power circuit 1200 A 40 °C - 10 s for power circuit 580 A 40 °C - 1 min for power circuit
Associated fuse rating	315 A gG at <= 690 V coordination type 1 for power circuit 250 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	0.6 mOhm - Ith 200 A 50 Hz for power circuit
[Ui] rated insulation voltage	Power circuit: 1000 V conforming to IEC 60947-4-1
Overvoltage category	III
Pollution degree	3
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947
Mechanical durability	8 Mcycles
Electrical durability	0.6 Mcycles 250 A AC-1 at Ue <= 440 V 0.8 Mcycles 150 A AC-3 at Ue <= 440 V 1.5 Mcycles 90 A AC-3 at Ue 660/690 V
Control circuit type	AC at 50/60 Hz
Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.3...0.5 Uc (-40…55 °C):drop-out 50/60 Hz 0.8...1.15 Uc (-40…55 °C):operational 50/60 Hz

Inrush power in VA	280…350 VA 50 Hz cos phi 0.9 (at 20 °C) 280…350 VA 60 Hz cos phi 0.9 (at 20 °C)
Hold-in power consumption in VA	2…18 VA 50 Hz cos phi 0.9 (at 20 °C) 2…18 VA 60 Hz cos phi 0.9 (at 20 °C)
Heat dissipation	3…4.5 W at 50/60 Hz
Operating time	20...35 ms closing 40...75 ms opening
Maximum operating rate	1200 cyc/h 60 °C
Connections - terminals	Control circuit: screw clamp terminals 2 1…2.5 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 1…2.5 mm² - cable stiffness: flexible with cable end Power circuit: bus terminal - cable stiffness: solid - busbar cross section: 5 x 25 mm Power circuit: connector 1 10…120 mm² - external diameter: 25 mm - cable stiffness: flexible without cable end Power circuit: connector 2 10…50 mm² - external diameter: 25 mm - cable stiffness: flexible without cable end Power circuit: connector 1 10…120 mm² - external diameter: 25 mm - cable stiffness: flexible with cable end Power circuit: connector 2 10…50 mm² - external diameter: 25 mm - cable stiffness: flexible with cable end Power circuit: connector 1 10…120 mm² - external diameter: 25 mm - cable stiffness: solid without cable end Power circuit: connector 2 10…50 mm² - external diameter: 25 mm - cable stiffness: solid without cable end Control circuit: screw clamp terminals 1 1…2.5 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 1…2.5 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 1…2.5 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 1…2.5 mm² - cable stiffness: solid without cable end
Tightening torque	Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 12 N.m - on screw clamp terminals hexagonal screw head 4 mm Power circuit: 12 N.m - on cable connector hexagonal screw head 13 mm M8 Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver pozidriv No 2
Auxiliary contact composition	Without
Mounting support	Plate Rail

Environment

Standards	IEC 60947-4-1 GB 14048.4
Product certifications	CCC[RETURN]CE[RETURN]UKCA
IP degree of protection	IP2X front face for main circuit conforming to IEC 60529 IP2X front face for coil circuit conforming to IEC 60529
Protective treatment	TH conforming to IEC 60068-2-30
Permissible ambient air temperature around the device	-40…60 °C operation 60…70 °C with derating -60…80 °C storage
Operating altitude	3000 m without derating
Fire resistance	850 °C conforming to IEC 60695-2-11
Mechanical robustness	Vibrations contactor open (2 Gn, 5...300 Hz) conforming to IEC 60068-2-6 Vibrations contactor closed (4 Gn, 5...300 Hz) conforming to IEC 60068-2-6 Shocks 11 ms contactor closed (15 gn) conforming to IEC 60068-2-27 Shocks 11 ms contactor open (6 Gn) conforming to IEC 60068-2-27
Height	158 mm
Width	120 mm
Depth	136 mm
Net weight	2.5 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	15.8 cm
Package 1 Width	12.0 cm
Package 1 Length	13.6 cm
Package 1 Weight	2.5 kg
Unit Type of Package 2	P06
Number of Units in Package 2	24
Package 2 Height	60.0 cm
Package 2 Width	60.0 cm
Package 2 Length	80.0 cm
Package 2 Weight	69.8 kg

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
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