Product datasheet Characteristics

LC1D32F7

TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 32 A - 110 V AC coil



Main

Range of product	TeSys D	for s
Range	TeSys	— aducts
Product name	TeSys D	—se pro
Product or component type	Contactor	the:
Device short name	LC1D	— oility o
Device short name	LC1D32	reliak
Contactor application	Motor control Resistive load	ability or
Utilisation category	AC-3 AC-1	 ining suiti
Poles description	3P	eterm_
Pole contact composition	3 NO	for de
[Ue] rated operational voltage	<= 690 V AC 25400 Hz for power circuit <= 300 V DC for power circuit	pe nsed
[le] rated operational current	32 A (<= 60 °C) at <= 440 V AC AC-3 for power circuit 50 A (<= 60 °C) at <= 440 V AC AC-1 for power circuit	s not to
Motor power kW	15 kW at 415440 V AC 50/60 Hz 15 kW at 380400 V AC 50/60 Hz 7.5 kW at 220230 V AC 50/60 Hz 18.5 kW at 660690 V AC 50/60 Hz 18.5 kW at 500 V AC 50/60 Hz	a substitute for and
Motor power hp	20 hp at 460/480 V AC 50/60 Hz for 3 phases motors 10 hp at 230/240 V AC 50/60 Hz for 3 phases motors 7.5 hp at 200/208 V AC 50/60 Hz for 3 phases motors 5 hp at 230/240 V AC 50/60 Hz for 1 phase motors 30 hp at 575/600 V AC 50/60 Hz for 3 phases motors 2 hp at 115 V AC 50/60 Hz for 1 phase motors	claimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for
Control circuit type	AC 50/60 Hz	ment
Control circuit voltage	110 V AC 50/60 Hz	— noop
Auxiliary contact composition	1 NO + 1 NC	This
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947	claimer:

Overvoltage category	III
[lth] conventional free air thermal current	10 A at <= 60 °C for signalling circuit 50 A at <= 60 °C for power circuit
Irms rated making capacity	140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1 550 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	550 A at 440 V for power circuit conforming to IEC 60947
[lcw] rated short-time withstand current	100 A 1 s signalling circuit 60 A <= 40 °C 10 min power circuit 140 A 100 ms signalling circuit 430 A <= 40 °C 1 s power circuit 138 A <= 40 °C 1 min power circuit 120 A 500 ms signalling circuit 260 A <= 40 °C 10 s power circuit
Associated fuse rating	63 A gG at <= 690 V coordination type 1 for power circuit 10 A gG for signalling circuit conforming to IEC 60947-5-1 63 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	2 mOhm at 50 Hz - Ith 50 A for power circuit
[Ui] rated insulation voltage	600 V for signalling circuit certifications CSA 600 V for power circuit certifications UL 600 V for power circuit certifications CSA 600 V for signalling circuit certifications UL 690 V for power circuit conforming to IEC 60947-4-1 690 V for signalling circuit conforming to IEC 60947-1
Electrical durability	1.4 Mcycles 50 A AC-1 at Ue <= 440 V 1.65 Mcycles 32 A AC-3 at Ue <= 440 V
Power dissipation per pole	5 W AC-1 2 W AC-3
Protective cover	With
Mounting support	Rail Plate
Standards	IEC 60947-5-1 EN 60947-4-1 CSA C22.2 No 14 IEC 60947-4-1 UL 508 EN 60947-5-1
Product certifications	UL GOST DNV GL BV CCC CSA LROS RINA
Connections - terminals	Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: solid - without cable end Power circuit: screw clamp terminals 1 cable(s) 1.510 mm² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 2 cable(s) 2.510 mm² - cable stiffness: solid - without cable end Power circuit: screw clamp terminals 1 cable(s) 110 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 2 cable(s) 1.56 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 2 cable(s) 2.510 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 2.510 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 2.510 mm² - cable stiffness: flexible - with cable end
Tightening torque	Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 2.5 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

	Power circuit : 2.5 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm
Operating time	1222 ms closing 419 ms opening
Safety reliability level	B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1 B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1
Mechanical durability	15 Mcycles
Operating rate	3600 cyc/h at <= 60 °C

Complementary

Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.81.1 Uc operational at 60 °C, AC 50 Hz 0.851.1 Uc operational at 60 °C, AC 60 Hz 0.30.6 Uc drop-out at 60 °C, AC 50/60 Hz
Inrush power in VA	70 VA at 20 °C (cos φ 0.75) 60 Hz 70 VA at 20 °C (cos φ 0.75) 50 Hz
Hold-in power consumption in VA	7 VA at 20 °C (cos φ 0.3) 50 Hz 7.5 VA at 20 °C (cos φ 0.3) 60 Hz
Heat dissipation	23 W at 50/60 Hz
Auxiliary contacts type	Type mechanically linked (1 NO + 1 NC) conforming to IEC 60947-5-1 Type mirror contact (1 NC) conforming to IEC 60947-4-1
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)
Insulation resistance	> 10 MOhm for signalling circuit
Contact compatibility	M2
Compatibility code	LC1D

Environment

IP degree of protection	IP2x front face conforming to IEC 60529
Protective treatment	TH conforming to IEC 60068-2-30
Pollution degree	3
Ambient air temperature for operation	-2060 °C
Ambient air temperature for storage	-6080 °C
Permissible ambient air temperature around the device	-4070 °C at Uc
Operating altitude	3000 m without derating in temperature
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 Shocks contactor closed 15 Gn for 11 ms Vibrations contactor closed 4 Gn, 5300 Hz
Height	85 mm
Width	45 mm
Depth	92 mm
Product weight	0.375 kg

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0627 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold

Product environmental profile	Available Product environmental	
Product end of life instructions	Available End of life manual	
Contractual warranty		
Warranty period	18 months	