Product data sheet Characteristics

LC1D95C5

TeSys; TeSys Deca, Contactor, 3P(3 NO), AC-3, <= 440V, 95 A, 32V AC 50 Hz coil



Main Range Range of product Product or component type

Device short name

Contactor application

[le] rated operational

LC1D Motor control Resistive load

TeSys Deca

Contactor

TeSys

AC-4 Utilisation category AC-1 AC-3

Poles description [Ue] rated operational

25 KW at 220...230 V AC 50 Hz (AC-3)

Power circuit: 1000 V AC 25...400 Hz

95 A (at <60 °C) at <= 440 V AC-3 for power circuit 125 A (at <60 °C) at <= 690 V AC-1 for power circuit

[Uc] control circuit voltage

voltage

current

32 V AC 50 Hz

Complementary Motor power kW

	45 KW at 380400 V AC 50 Hz (AC-3) 45 KW at 415440 V AC 50 Hz (AC-3) 55 KW at 500 V AC 50 Hz (AC-3) 45 KW at 660690 V AC 50 Hz (AC-3) 45 kW at 1000 V AC 50 Hz (AC-3)
Motor power hp	7.5 Hp at 120 V AC 60 Hz for 1 phase motors 15 Hp at 230/240 V AC 60 Hz for 1 phase motors 30 Hp at 200/208 V AC 60 Hz for 3 phases motors 30 Hp at 230/240 V AC 60 Hz for 3 phases motors 60 Hp at 460/480 V AC 60 Hz for 3 phases motors 60 hp at 575/600 V AC 60 Hz for 3 phases motors
Compatibility code	LC1D
Pole contact composition	3 NO
Contact compatibility	M12
Protective cover	With
[lth] conventional free air thermal current	10 A (at 60 °C) for signalling circuit 125 A (at 60 °C) for power circuit
Irms rated making capacity	1100 A at 440 V AC for power circuit conforming to IEC 60947 140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1
Rated breaking capacity	1100 A at 440 V for power circuit conforming to IEC 60947

Rated breaking capacity	1100 A at 440
[lcw] rated short-time withstand current	1100 A 40 °C - 800 A 40 °C -

- 1 s for power circuit 10 s for power circuit 400 A 40 °C - 1 min for power circuit 135 A 40 °C - 10 min for power circuit

140 A - 100 ms for signalling circuit 120 A - 500 ms for signalling circuit 100 A - 1 s for signalling circuit

Associated fuse rating 10 A gG for signalling circuit conforming to IEC 60947-5-1 200 A gG at <= 690 V coordination type 1 for power circuit 160 A gG at <= 690 V coordination type 2 for power circuit

Average impedance 0.8 mOhm - Ith 125 A 50 Hz for power circuit

Power dissipation per pole	12.5 W AC-1 7.2 W AC-3
[Ui] rated insulation voltage	Power circuit: 1000 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
Overvoltage category	III
Pollution degree	3
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947
Safety reliability level	B10d = 1.3 Mcycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20 Mcycles contactor with mechanical load conforming to EN/ISO 13849-1
Mechanical durability	10 Mcycles
Electrical durability	1.2 Mcycles 95 A AC-3 1.3 Mcycles 125 A AC-1
Control circuit type	AC at 50 Hz
Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.30.6 Uc (-4070 °C):drop-out AC 50 Hz 0.851.1 Uc (-4055 °C):operational AC 50 Hz 11.1 Uc (5570 °C):operational AC 50 Hz
Inrush power in VA	200 VA 50 Hz cos phi 0.75 (at 20 °C)
Hold-in power consumption in VA	20 VA 50 Hz cos phi 0.3 (at 20 °C)
Heat dissipation	610 W at 50 Hz
Operating time	2035 ms closing 620 ms opening
Maximum operating rate	3600 cyc/h 60 °C
Connections - terminals Tightening torque	Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 12.5 mm² - cable stiffness: flexible with cable end 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 1 14 mm² - cable stiffness: solid without 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: connector 1 450 mm² - cable stiffness: flexible without cable end Power circuit: connector 1 450 mm² - cable stiffness: flexible with cable end Power circuit: connector 2 416 mm² - cable stiffness: flexible with cable end Power circuit: connector 1 450 mm² - cable stiffness: solid without cable end Power circuit: connector 2 416 mm² - cable stiffness: solid without cable end Power circuit: connector 2 425 mm² - cable stiffness: solid without cable end Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm
rightering to que	Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 12 N.m - on connector - with screwdriver flat Ø 6 to Ø 8 mm Power circuit: 12 N.m - on connector hexagonal screw head 4 mm
Auxiliary contact composition	1 NO + 1 NC
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 voltage	17 V for signalling circuit
Minimum switching current	5 mA for signalling circuit
Insulation resistance	> 10 MOhm 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
Mounting support	Plate Rail

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Environment

Standards	EN/IEC 60947-1 EN/IEC 60947-4-1 EN/IEC 60947-5-1 UL 60947-4-1 UL 60947-5-1 CSA C22.2 No 60947-4-1 CSA C22.2 No 60947-5-1 GB/T 14048.4
Product certifications	IECEE CB Scheme[RETURN]UL[RETURN]CSA[RETURN]CCC[RETURN]EAC[RETURN]LROS (Lloyds register of shipping)[RETURN]RINA[RETURN]BV[RETURN]DNV-GL
IP degree of protection	IP20 front face conforming to IEC 60529
Protective treatment	TH conforming to IEC 60068-2-30
Climatic withstand	Conforming to IACS E10 exposure to damp heat
Permissible ambient air temperature around the device	-6080 °C storage -4060 °C operation 6070 °C with derating
Operating altitude	03000 m
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)
Height	127 mm
Width	85 mm
Depth	130 mm
Net weight	1.61 kg

Packing Units

3 - 1 - 1 - 1		
Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	15.5 cm	
Package 1 Width	9.5 cm	
Package 1 Length	13.5 cm	
Package 1 Weight	1.6 kg	

Contractual warranty

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Warrant	у	18 months