Product data sheet Characteristics

LC1D95MW

TeSys, Contactor, TeSys Deca, 3P(3NO), AC-3/AC-3e, <=440V, 95A, 220V DC wide range coil





Main

Range	TeSys
Range of product	TeSys Deca
Product or component type	Contactor
Device short name	LC1D
Contactor application	Motor control Resistive load
Utilisation category	AC-3 AC-3e AC-4 AC-1
Poles description	3P
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25400 Hz
[le] rated operational current	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 95 A (at <60 °C) at <= 440 V AC-3e for power circuit
[Uc] control circuit voltage	220 V DC

Complementary

Motor power kW	25 KW at 220230 V AC 50 Hz (AC-3)
	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)
	15 KW at 400 V AC 50 Hz (AC-4)
	25 KW at 220230 V AC 50 Hz (AC-3e)
	45 KW at 380400 V AC 50 Hz (AC-3e)
	45 KW at 415440 V AC 50 Hz (AC-3e)
	55 KW at 500 V AC 50 Hz (AC-3e) 45 kW at 660690 V AC 50 Hz (AC-3e)
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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
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

[lcw] rated short-time withstand current	1100 A 40 °C - 1 s for power circuit 800 A 40 °C - 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 - 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 7.2 W AC-3e
[Ui] rated insulation voltage	Power circuit: 1000 V conforming to IEC 60947-4-1 Signalling circuit: 690 V conforming to IEC 60947-1
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 1.2 Mcycles 95 A AC-3e
Control circuit type	DC wide range
Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.751.2 Uc (-4055 °C):operational DC 0.10.3 Uc (-4070 °C):drop-out DC 11.2 Uc (5570 °C):operational DC
Inrush power in W	22 W (at 20 °C)
Hold-in power consumption in W	22 W at 20 °C
Operating time	95130 ms closing 2035 ms opening
Time constant	75 ms
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 2 425 mm² - cable stiffness: solid without cable end Power circuit: connector 2 425 mm² - cable stiffness: solid without cable end Power circuit: connector 2 425 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 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 Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver pozidriv No 2
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

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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	Rail Plate
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Environment	
Standards	EN/IEC 60947-1
	EN/IEC 60947-4-1 EN/IEC 60947-5-1 GB/T 14048.4
Product certifications	IECEE CB Scheme[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	-4060 °C 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	186 mm
Net weight	2.61 kg
Packing Units	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	21.0 cm
Package 1 Width	10.0 cm
Package 1 Length	14.0 cm
Package 1 Weight	2.6 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 China RoHS Regulation	Yes
	China RoHS Declaration
RoHS exemption information	€Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	No need of specific recycling operations
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes
Contractual warranty	
Marranty	19 months

18 months

Warranty