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

LC1D95MD

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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

5 kW at 220230 V AC 50 Hz (AC-3) 5 kW at 380400 V AC 50 Hz (AC-3) 5 kW at 415440 V AC 50 Hz (AC-3) 6 kW at 500 V AC 50 Hz (AC-3) 6 kW at 660690 V AC 50 Hz (AC-3) 6 kW at 400 V AC 50 Hz (AC-4) 7 kW at 220230 V AC 50 Hz (AC-3e) 7 kW at 380400 V AC 50 Hz (AC-3e) 7 kW at 380400 V AC 50 Hz (AC-3e) 7 kW at 415440 V AC 50 Hz (AC-3e) 7 kW at 500 V AC 50 Hz (AC-3e) 7 kW at 500 V AC 50 Hz (AC-3e) 7 kW at 660690 V AC 50 Hz (AC-3e) 7 kW at 660690 V AC 60 Hz for 1 phase motors 7 kp at 120 V AC 60 Hz for 1 phase motors
5 kW at 415440 V AC 50 Hz (AC-3) 5 kW at 500 V AC 50 Hz (AC-3) 5 kW at 660690 V AC 50 Hz (AC-3) 6 kW at 400 V AC 50 Hz (AC-4) 6 kW at 220230 V AC 50 Hz (AC-3e) 6 kW at 380400 V AC 50 Hz (AC-3e) 6 kW at 415440 V AC 50 Hz (AC-3e) 6 kW at 500 V AC 50 Hz (AC-3e) 6 kW at 660690 V AC 50 Hz (AC-3e) 7 kW at 660690 V AC 50 Hz (AC-3e)
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5 kW at 660690 V AC 50 Hz (ÁC-3e) 5 hp at 120 V AC 60 Hz for 1 phase motors
5 hp at 120 V AC 60 Hz for 1 phase motors
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hp at 230/240 V AC 60 Hz for 1 phase motors
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hp at 200/208 V AC 60 Hz for 3 phases motors
hp at 230/240 V AC 60 Hz for 3 phases motors
hp at 460/480 V AC 60 Hz for 3 phases motors
hp at 575/600 V AC 60 Hz for 3 phases motors
C1D
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Irms rated making capacity	A at 440 V AC for power circuit conforming to IEC 60947 A AC for signalling circuit conforming to IEC 60947-5-1 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	
[Icw] 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 - 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 standard	
Coil technology	Without built-in suppressor module	
Control circuit voltage limits	0.10.3 Uc (-4070 °C):drop-out DC 0.851.1 Uc (-4055 °C):operational DC 11.1 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	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 2 14 mm² - cable stiffness: solid without cable end Power circuit: connector 1 450 mm² - cable stiffness: flexible without cable end Power circuit: connector 2 425 mm² - cable stiffness: flexible with cable end Power circuit: connector 1 450 mm² - cable stiffness: flexible with cable end Power circuit: connector 2 416 mm² - cable stiffness: solid without cable end Power circuit: connector 1 450 mm² - cable stiffness: solid without cable end Power circuit: connector 2 425 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 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	ary 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	type mirror contact 1 NC conforming to IEC 60947-4-1 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
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 CCC EAC LROS (Lloyds register of shipping) RINA BV 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	2.644 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 Pro-active China RoHS declaration (out of China RoHS legal scope)	
RoHS exemption information	Yes	
Environmental Disclosure	Product Environmental Profile	
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		

Warranty 18 months

Recommended replacement(s)