# Product data sheet Characteristics

## LC1D956M7

contactor, TeSys Deca, 3P(3NO), AC-3/AC-3e <=440V 95A, 220V AC 50/60Hz coil, ring-lug terminals





#### Main

Range	TeSys	
Range of product	TeSys D	
Product or component type	Contactor	
Device short name	LC1D	
Contactor application	Resistive load Motor control	
Utilisation category	AC-1 AC-4 AC-3 AC-3e	
Poles description	3P	
[Ue] rated operational voltage	Power circuit: 1000 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	

#### Complementary

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) 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
Pole contact composition	3 NO
Contact compatibility	M11
Protective cover	With
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
Auxiliary contact composition	1 NO + 1 NC
[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

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[Uimp] rated impulse withstand voltage	8 KV conforming to IEC 60947
Overvoltage category	III
[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
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
Control circuit type	AC at 50/60 Hz
Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.81.1 Uc (-4055 °C):operational AC 50 Hz 0.851.1 Uc (-4055 °C):operational AC 60 Hz 0.30.6 Uc (-4070 °C):drop-out AC 50/60 Hz 11.1 Uc (5570 °C):operational AC 50/60 Hz
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
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
Maximum operating rate	3600 Cyc/H 60 °C
Inrush power in VA	245 VA 60 Hz cos phi 0.75 (at 20 °C) 245 VA 50 Hz cos phi 0.75 (at 20 °C)
Hold-in power consumption in VA	26 VA 60 Hz cos phi 0.3 (at 20 °C) 26 VA 50 Hz cos phi 0.3 (at 20 °C)
Insulation resistance	> 10 MOhm for signalling circuit
Tightening torque	Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm-M3.5 Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5 Power circuit: 12 N.m - on lugs-ring terminals - with screwdriver flat Ø 8 mm M6 Power circuit: 12 N.m - on lugs-ring terminals hexagonal screw head 10 mm M6 Power circuit: 12 N.m - on bars - with screwdriver flat Ø 8 mm M6 Power circuit: 12 N.m - on bars hexagonal screw head 10 mm M6 Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver-pozidriv No 2 M3.5
Mounting support	Rail Plate
Electrical durability	1.2 Mcycles 95 A AC-3 1.3 Mcycles 125 A AC-1 1.2 Mcycles 95 A AC-3e
Mechanical durability	4 Mcycles
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
Operating altitude	03000 m
Compatibility code	LC1D
Product certifications	IECEE CB Scheme UL CSA CCC EAC LROS (Lloyds register of shipping) RINA BV DNV-GL



#### Environment

Climatic withstand	Conforming to IACS E10	
Ambient air temperature for storage	-6080 °C	
Fire resistance	850 °C conforming to IEC 60695-2-1	
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

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Weight	1.6 Kg	
Package 1 Height	15.5 Cm	
Package 1 Width	9.5 Cm	
Package 1 Length	13.5 Cm	

#### Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	☑ REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Compliant EPEU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	₫Yes
China RoHS Regulation	☑ China RoHS Declaration
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

Product Life Status : Commercialised