Product data sheet
Characteristics

LC1D95T6
Contactor, TeSys Deca, 3P 95A AC-3, <= 440V, aux 1NO+1NC, 480V AC 60Hz coil, screw clamp terminals



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 25...400 Hz
[Ie] rated operational current	95 A (at <140 °F (60 °C)) at <= 440 V AC-3 for power circuit 125 A (at <140 °F (60 °C)) at <= 690 V AC-1 for power circuit
[Uc] control circuit voltage	480 V AC 60 Hz

Complementary

Motor power kW	25 KW at 220...230 V AC 50 Hz (AC-3) 45 KW at 380...400 V AC 50 Hz (AC-3) 45 KW at 415...440 V AC 50 Hz (AC-3) 55 KW at 500 V AC 50 Hz (AC-3) 45 KW at 660...690 V AC 50 Hz (AC-3) 15 KW at 400 V AC 50 Hz (AC-4) 25 KW at 220...230 V AC 50 Hz (AC-3e) 45 KW at 380...400 V AC 50 Hz (AC-3e) 45 KW at 415...440 V AC 50 Hz (AC-3e) 55 KW at 500 V AC 50 Hz (AC-3e) 45 kW at 660...690 V AC 50 Hz (AC-3e)
Maximum Horse Power Rating	7.5 Hp at 115 V AC 60 Hz for 1 phase motors 15 Hp at 230/240 V AC 60 Hz for 1 phase motors 25 Hp at 200/208 V AC 60 Hz for 3 phase motors 30 Hp at 230/240 V AC 60 Hz for 3 phase motors 60 Hp at 460/480 V AC 60 Hz for 3 phase motors 60 hp at 575/600 V AC 60 Hz for 3 phase motors
Compatibility code	LC1D
Pole contact composition	3 NO
Protective cover	With
[Ith] conventional free air thermal current	10 A (at 140 °F (60 °C)) for signalling circuit 125 A (at 140 °F (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
[Icw] rated short-time withstand current	1100 A 104 °F (40 °C) - 1 s for power circuit 800 A 104 °F (40 °C) - 10 s for power circuit 400 A 104 °F (40 °C) - 1 min for power circuit 135 A 104 °F (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

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Associated fuse rating	10 A gG for signalling circuit conforming to IEC 60947-5-1 160 A gG at <= 690 V coordination type 2 for power circuit 200 A gG at <= 690 V coordination type 1 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 IEC 60947-4-1 Power circuit 600 V CSA Power circuit 600 V UL Signalling circuit 690 V IEC 60947-1 Signalling circuit 600 V CSA Signalling circuit 600 V UL
Overvoltage category	III
[Uimp] rated impulse withstand voltage	8 kV IEC 60947
Safety reliability level	B10d = 1.3 Mcycles contactor with nominal load EN/ISO 13849-1 B10d = 20 Mcycles contactor with mechanical load 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 60 Hz
Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.3...0.6 Uc -40…158 °F (-40…70 °C) drop-out AC 60 Hz 0.85...1.1 Uc -40…131 °F (-40…55 °C) operational AC 60 Hz 1...1.1 Uc 131…158 °F (55…70 °C) operational AC 60 Hz
Inrush power in VA	220 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C))
Hold-in power consumption in VA	22 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C))
Heat dissipation	6…10 W at 60 Hz for control circuit
Operating time	20...35 ms closing 6...20 ms opening
Maximum operating rate	3600 cyc/h 140 °F (60 °C)
Maximum operating rate	3600 cyc/h at 60 °C
Connections - terminals	Control circuit: screw clamp terminals 1 0.002…0.006 in² (1…4 mm²) - cable stiffness: rigid Control circuit: screw clamp terminals 2 0.002…0.006 in² (1…4 mm²) - cable stiffness: rigid Control circuit: screw clamp terminals 1 0.002…0.006 in² (1…4 mm²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 0.002…0.006 in² (1…4 mm²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 0.002…0.004 in² (1…2.5 mm²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 0.002…0.004 in² (1…2.5 mm²) - cable stiffness: flexible with cable end Power circuit: screw terminals 1 0.006…0.08 in² (4…50 mm²) - cable stiffness: rigid Power circuit: screw terminals 2 0.006…0.04 in² (4…25 mm²) - cable stiffness: rigid Power circuit: screw terminals 1 0.006…0.08 in² (4…50 mm²) - cable stiffness: flexible without cable end Power circuit: screw terminals 2 0.006…0.04 in² (4…25 mm²) - cable stiffness: flexible without cable end Power circuit: screw terminals 1 0.006…0.08 in² (4…50 mm²) - cable stiffness: flexible with cable end Power circuit: screw terminals 2 0.006…0.02 in² (4…16 mm²) - cable stiffness: flexible with cable end
Tightening torque	Control circuit 10.6 lbf.in (1.2 N.m) screw clamp terminal flat Ø 6 mm Control circuit 10.6 lbf.in (1.2 N.m) screw clamp terminal Philips No 2 Power circuit 106.2 lbf.in (12 N.m) screw terminal flat Ø 6 to Ø 8 mm Power circuit 106.2 lbf.in (12 N.m) screw terminal hex (Allen key) 0.2 in (4 mm) Control circuit 10.6 lbf.in (1.2 N.m) screw clamp terminal pozidriv No 2
Auxiliary contact composition	1 NO + 1 NC
Auxiliary contacts type	Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1
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 contacts 1.5 ms on energisation between NC and NO contacts
Mounting Support	Plate Rail

Environment

Standards	EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 CSA C22.2 No 14 UL 60947-4-1 IEC 60335-2-40:Annex JJ UL 60335-2-40:Annex JJ IEC 60335-1:Clause 30.2
Product Certifications	CCC[RETURN]UL[RETURN]CB Scheme[RETURN]CSA[RETURN]CE[RETURN]UKCA[RETURN]Marine[RETURN]EAC
IP degree of protection	IP20 IEC 60529
Protective treatment	TH 3)IEC 60068-2-30
Climatic withstand	IACS E10 exposure to damp heat
Operating altitude	0...9842.52 ft (0...3000 m)
Fire resistance	1562 °F (850 °C) IEC 60695-2-1
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Shocks contactor opened 8 Gn for 11 ms) Shocks contactor closed 10 Gn for 11 ms) Vibrations contactor opened 2 Gn, 5...300 Hz) Vibrations contactor closed 3 Gn, 5...300 Hz)
Height	5.0000000000 in (127 mm)
Width	3.3 in (85 mm)
Depth	5.1 in (130 mm)
Net Weight	3.55 lb(US) (1.61 kg)

Ordering and shipping details

Category	US10I1222359
Discount Schedule	0I12
GTIN	3389110451993
Returnability	No
Country of origin	CZ

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.1 in (15.5 cm)
Package 1 Width	3.7 in (9.5 cm)
Package 1 Length	5.3 in (13.5 cm)
Package 1 Weight	3.5 lb(US) (1.6 kg)

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
Sustainable packaging	Yes
China RoHS Regulation	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.

Contractual warranty

Warranty	18 months