Product data sheet
Characteristics

LC1D1506LE7
TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 150 A - 208 V AC 50/60 Hz coil

Product availability : Stock - Normally stocked in distribution facility

Main

Range of product	TeSys D
Range	TeSys
Product name	TeSys D
Product or component type	Contactor
Device short name	LC1D
Contactor application	Resistive load Motor control
Utilisation category	AC-3 AC-1
Poles description	3P
Pole contact composition	3 NO
System Voltage	<= 300 V DC power circuit <= 1000 V AC 25...400 Hz power circuit
[Ie] rated operational current	200 A (<= 140 °F (60 °C)) at <= 440 V AC AC-1 power circuit 150 A (<= 140 °F (60 °C)) at <= 440 V AC AC-3 power circuit
Motor power kW	100 kW at 660...690 V AC 50/60 Hz 40 kW at 220...230 V AC 50/60 Hz 75 kW at 1000 V AC 50/60 Hz 75 kW at 380...400 V AC 50/60 Hz 90 kW at 500 V AC 50/60 Hz 80 kW at 415...440 V AC 50/60 Hz
Motor power hp	40 hp at 200/208 V AC 50/60 Hz 3 phases motors 50 hp at 230/240 V AC 50/60 Hz 3 phases motors 100 hp at 460/480 V AC 50/60 Hz 3 phases motors 125 hp at 575/600 V AC 50/60 Hz 3 phases motors
Control circuit type	AC 50/60 Hz
[Uc] control circuit voltage	208 V AC 50/60 Hz
Auxiliary contact composition	1 NO + 1 NC
[Uimp] rated impulse withstand voltage	Conforming to IEC 60947
Overvoltage category	III

[Ith] conventional free air thermal current	200 A at <= 140 °F (60 °C) power circuit
Irms rated making capacity	1660 A at 440 V power circuit conforming to IEC 60947 140 A AC signalling circuit conforming to IEC 60947-5-1 250 A DC signalling circuit conforming to IEC 60947-5-1
Rated breaking capacity	1400 A at 440 V power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	100 A 1 s signalling circuit 120 A 500 ms signalling circuit 140 A 100 ms signalling circuit 250 A <= 104 °F (40 °C) 10 min power circuit 580 A <= 104 °F (40 °C) 1 min power circuit 1200 A <= 104 °F (40 °C) 10 s power circuit 1400 A <= 104 °F (40 °C) 1 s power circuit
Associated fuse rating	250 A gG at <= 690 V coordination type 2 power circuit 315 A gG at <= 690 V coordination type 1 power circuit 10 A gG signalling circuit conforming to IEC 60947-5-1
Average impedance	0.6 mOhm at 50 Hz - Ith 200 A power circuit
[Ui] rated insulation voltage	1000 V power circuit conforming to IEC 60947-4-1 600 V power circuit certifications CSA 600 V power circuit certifications UL 690 V signalling circuit conforming to IEC 60947-1 600 V signalling circuit certifications CSA 600 V signalling circuit certifications UL
Electrical durability	0.85 Mcycles 150 A AC-3 at Ue <= 440 V 1 Mcycles 200 A AC-1 at Ue <= 440 V
Power dissipation per pole	24 W AC-1 13.5 W AC-3
Protective cover	With
Mounting support	Rail Plate
Standards	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508
Product certifications	UL GL DNV RINA CCC CSA LROS (Lloyds register of shipping) BV GOST
Connections - terminals	Power circuit: bars 1 5 x 25 mm Control circuit: lugs-ring terminals - external diameter: 0.31 in (8 mm) Power circuit: lugs-ring terminals - external diameter: 0.98 in (25 mm)
Tightening torque	Control circuit: 10.62 lbf.in (1.2 N.m) - on lugs-ring terminals - with screwdriver flat Ø 6 mm screw : M3.5 Control circuit: 10.62 lbf.in (1.2 N.m) - on lugs-ring terminals - with screwdriver Philips No 2 screw : M3.5 Power circuit: 106.19 lbf.in (12 N.m) - on lugs-ring terminals hexagonal 0.51 in (13 mm) screw : M8 Power circuit: 106.19 lbf.in (12 N.m) - on bars hexagonal 0.51 in (13 mm) screw : M8
Operating time	20...35 ms closing 40...75 ms opening
Safety reliability level	B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1
Mechanical durability	8 Mcycles
Operating rate	1200 cyc/h at <= 140 °F (60 °C)

Complementary

Coil technology	Built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.3...0.5 Uc drop-out at 131 °F (55 °C), AC 50/60 Hz 0.8...1.15 Uc operational at 131 °F (55 °C), AC 50/60 Hz

Inrush power in VA	280...350 VA at 68 °F (20 °C) (cos ϕ 0.9) 60 Hz 280...350 VA at 68 °F (20 °C) (cos ϕ 0.9) 50 Hz
Hold-in power consumption in VA	2...18 VA at 68 °F (20 °C) (cos ϕ 0.9) 60 Hz 2...18 VA at 68 °F (20 °C) (cos ϕ 0.9) 50 Hz
Heat dissipation	3...4.5 W at 50/60 Hz
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	25...400 Hz
Minimum switching current	5 mA signalling circuit
Minimum switching voltage	17 V 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)
Insulation resistance	> 10 MOhm signalling circuit

Environment

IP degree of protection	IP2x front face conforming to IEC 60529
Protective treatment	TH conforming to IEC 60068-2-30
Pollution degree	3
Ambient air temperature for operation	23...140 °F (-5...60 °C)
Ambient air temperature for storage	-76...176 °F (-60...80 °C)
Permissible ambient air temperature around the device	-40...158 °F (-40...70 °C) at Uc
Operating altitude	9842.52 ft (3000 m) without derating in temperature
Fire resistance	1562 °F (850 °C) conforming to IEC 60695-2-1
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Vibrations contactor open 2 Gn, 5...300 Hz Vibrations contactor closed 4 Gn, 5...300 Hz Shocks contactor closed 15 Gn for 11 ms Shocks contactor open 6 Gn for 11 ms
Height	6.22 in (158 mm)
Width	4.72 in (120 mm)
Depth	5.35 in (136 mm)
Product weight	5.51 lb(US) (2.5 kg)

Ordering and shipping details

Category	22345 - CTR,D-LINE,OPEN,NONREV-NEW
Discount Schedule	I12
GTIN	00785901540106
Nbr. of units in pkg.	1
Package weight(Lbs)	4.8399999999999999
Returnability	N
Country of origin	CZ

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0932 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available

Contractual warranty

Warranty period	18 months