



Price* : 274.00 USD



Main

Range of product	TeSys D
Range	TeSys
Product name	TeSys D
Product or component type	Contacteur
Device short name	LC1D
Contacteur application	Motor control Resistive load
Utilisation category	AC-1 AC-3 AC-4
Poles description	3P
Pole contact composition	3 NO
System Voltage	≤ 300 V DC power circuit ≤ 690 V AC 25...400 Hz power circuit
[Ie] rated operational current	38 A (≤ 140 °F (60 °C)) at ≤ 440 V AC AC-3 power circuit 50 A (≤ 140 °F (60 °C)) at ≤ 440 V AC AC-1 power circuit
Motor power kW	18.5 kW at 500 V AC 50/60 Hz AC-3 18.5 kW at 660...690 V AC 50/60 Hz AC-3 7.5 kW at 400 V AC 50/60 Hz AC-4 18.5 kW at 380...400 V AC 50/60 Hz AC-3 18.5 kW at 415...440 V AC 50/60 Hz AC-3 9 kW at 220...230 V AC 50/60 Hz AC-3
Motor power hp	10 hp at 230/240 V AC 50/60 Hz 3 phases motors 10 hp at 200/208 V AC 50/60 Hz 3 phases motors 5 hp at 240 V AC 50/60 Hz 1 phase motors 20 hp at 480 V AC 50/60 Hz 3 phases motors 25 hp at 600 V AC 50/60 Hz 3 phases motors
Control circuit type	DC standard
Control circuit voltage	36 V DC
Auxiliary contact composition	1 NO + 1 NC

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

[Uimp] rated impulse withstand voltage	Conforming to IEC 60947
Overvoltage category	III
[Ith] conventional free air thermal current	50 A at ≤ 140 °F (60 °C) power circuit 10 A at ≤ 140 °F (60 °C) signalling circuit
Irms rated making capacity	550 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	550 A at 440 V power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	150 A ≤ 104 °F (40 °C) 1 min power circuit 310 A ≤ 104 °F (40 °C) 10 s power circuit 430 A ≤ 104 °F (40 °C) 1 s power circuit 60 A ≤ 104 °F (40 °C) 10 min power circuit 100 A 1 s signalling circuit 120 A 500 ms signalling circuit 140 A 100 ms signalling circuit
Associated fuse rating	63 A gG at ≤ 690 V coordination type 1 power circuit 63 A gG at ≤ 690 V coordination type 2 power circuit 10 A gG signalling circuit conforming to IEC 60947-5-1
Average impedance	2 mOhm at 50 Hz - Ith 50 A power circuit
[Ui] rated insulation voltage	600 V power circuit certifications CSA 600 V power circuit certifications UL 690 V power circuit conforming to IEC 60947-4-1 690 V signalling circuit conforming to IEC 60947-1 600 V signalling circuit certifications CSA 600 V signalling circuit certifications UL
Electrical durability	1.4 Mcycles 50 A AC-1 at Ue ≤ 440 V 1.4 Mcycles 38 A AC-3 at Ue ≤ 440 V
Power dissipation per pole	3 W AC-3 5 W AC-1
Protective cover	With
Mounting support	Plate Rail
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	BV CCC CSA DNV GL GOST RINA UL LROS
Connections - terminals	Control circuit: lugs-ring terminals - external diameter: 0.31 in (8 mm) Power circuit: lugs-ring terminals - external diameter: 0.39 in (10 mm)
Tightening torque	Control circuit: 15.04 lbf.in (1.7 N.m) - on lugs-ring terminals - with screwdriver flat Ø 6 mm screw : M3.5 Control circuit: 15.04 lbf.in (1.7 N.m) - on lugs-ring terminals - with screwdriver Philips No 2 screw : M3.5 Power circuit: 22.12 lbf.in (2.5 N.m) - on lugs-ring terminals - with screwdriver flat Ø 8 mm screw : M4 Power circuit: 22.12 lbf.in (2.5 N.m) - on lugs-ring terminals - with screwdriver Philips No 2 screw : M4
Operating time	53.55...72.45 ms closing 16...24 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	30 Mcycles
Operating rate	3600 cyc/h at ≤ 140 °F (60 °C)

Complementary

Coil technology	Built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.1...0.25 U _c drop-out at 140 °F (60 °C), DC

0.7...1.25 Uc operational at 140 °F (60 °C), DC

Time constant	28 ms
Inrush power in W	5.4 W at 68 °F (20 °C)
Hold-in power consumption in W	5.4 W at 68 °F (20 °C)
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	-4...140 °F (-20...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 8 Gn for 11 ms
Height	3.35 in (85 mm)
Width	1.77 in (45 mm)
Depth	3.98 in (101 mm)
Product weight	1.19 lb(US) (0.54 kg)

Ordering and shipping details

Category	22345 - CTR,D-LINE,OPEN,NONREV-NEW
Discount Schedule	112
GTIN	00785901690337
Nbr. of units in pkg.	1
Package weight(Lbs)	1.1899999999999999
Returnability	N
Country of origin	FR

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0638 - 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
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