LC1D25U7

TeSys D, Contactor, 3P(3 NO), AC-3/AC-3e, 0 to 440V, 25A, 250VAC 50/60Hz coil





Main

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-1 AC-3e	
Poles description	3P	
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC	
[le] rated operational current	25 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 40 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 25 A (at <60 °C) at <= 440 V AC AC-3e for power circuit	
[Uc] control circuit voltage	240 V AC 50/60 Hz	

Complementary

Motor power kW	5.5 KW at 220230 V AC 50/60 Hz (AC-3)	
	11 KW at 380400 V AC 50/60 Hz (AC-3)	
	11 KW at 415440 V AC 50/60 Hz (AC-3)	
	15 KW at 500 V AC 50/60 Hz (AC-3)	
	15 KW at 660690 V AC 50/60 Hz (AC-3)	
	5.5 KW at 400 V AC 50/60 Hz (AC-4)	
	5.5 KW at 220230 V AC 50/60 Hz (AC-3e)	
	11 KW at 380400 V AC 50/60 Hz (AC-3e)	
	11 KW at 415440 V AC 50/60 Hz (AC-3e)	
	15 KW at 500 V AC 50/60 Hz (AC-3e)	
	15 KW at 660690 V AC 50/60 Hz (AC-3e)	
Motor power hp	3 Hp at 230/240 V AC 50/60 Hz for 1 phase motors	
	2 Hp at 115 V AC 50/60 Hz for 1 phase motors	
	7.5 Hp at 230/240 V AC 50/60 Hz for 3 phases motors	
	15 Hp at 460/480 V AC 50/60 Hz for 3 phases motors	
	20 Hp at 575/600 V AC 50/60 Hz for 3 phases motors	
	7.5 Hp at 200/208 V AC 50/60 Hz for 3 phases motors	
Compatibility code	LC1D	
Pole contact composition	3 NO	
Contact compatibility	M2	
Protective cover	With	
[lth] conventional free air thermal current	10 A (at 60 °C) for signalling circuit	
	40 A (at 60 °C) for power circuit	
Irms rated making capacity	140 A AC for signalling circuit conforming to IEC 60947-5-1	
	250 A DC for signalling circuit conforming to IEC 60947-5-1	
	450 A at 440 V for power circuit conforming to IEC 60947	

450 A at 440 V for power circuit conforming to IEC 60947
240 A 40 °C - 10 s for power circuit
380 A 40 °C - 1 s for power circuit
50 A 40 °C - 10 min for power circuit 120 A 40 °C - 1 min for power circuit
100 A - 1 s for signalling circuit
120 A - 500 ms for signalling circuit
140 A - 100 ms for signalling circuit
10 A gG for signalling circuit conforming to IEC 60947-5-1 63 A gG at <= 690 V coordination type 1 for power circuit
40 A gG at <= 690 V coordination type 2 for power circuit
2 MOhm - Ith 40 A 50 Hz for power circuit
3.2 W AC-1
1.25 W AC-3 1.25 W AC-3e
Power circuit: 690 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
III
3
6 KV conforming to IEC 60947
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
15 Mcycles
1.65 Mcycles 25 A AC-3 at Ue <= 440 V
1.4 Mcycles 40 A AC-1 at Ue <= 440 V 1.65 Mcycles 25 A AC-3e at Ue <= 440 V
AC at 50/60 Hz
Without built-in suppressor module
0.30.6 Uc (-4070 °C):drop-out AC 50/60 Hz
0.81.1 Uc (-4060 °C):operational AC 50 Hz
0.851.1 Uc (-4060 °C):operational AC 60 Hz 11.1 Uc (6070 °C):operational AC 50/60 Hz
70 VA 60 Hz cos phi 0.75 (at 20 °C)
70 VA 50 Hz cos phi 0.75 (at 20 °C)
7.5 VA 60 Hz cos phi 0.3 (at 20 °C)
7 VA 50 Hz cos phi 0.3 (at 20 °C) 23 W at 50/60 Hz
1222 ms closing
419 ms opening
3600 Cyc/H 60 °C
Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with-
out cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible with-
out cable end
Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with-
cable end Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible-
with cable end
Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: solid without- cable end
Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without-
cable end
Power circuit: screw clamp terminals 1 2.510 mm ² - cable stiffness: flexible-
without cable end
Power circuit: screw clamp terminals 2 2.510 mm² - cable stiffness: flexible-
Power circuit: screw clamp terminals 2 2.510 mm ² - cable stiffness: flexible-without cable end
Power circuit: screw clamp terminals 2 2.510 mm ² - cable stiffness: flexible-
Power circuit: screw clamp terminals 2 2.510 mm² - cable stiffness: flexible-without cable end Power circuit: screw clamp terminals 1 110 mm² - cable stiffness: flexible with-cable end Power circuit: screw clamp terminals 2 1.56 mm² - cable stiffness: flexible with-
Power circuit: screw clamp terminals 2 2.510 mm² - cable stiffness: flexible-without cable end Power circuit: screw clamp terminals 1 110 mm² - cable stiffness: flexible with-cable end
Power circuit: screw clamp terminals 2 2.510 mm² - cable stiffness: flexible-without cable end Power circuit: screw clamp terminals 1 110 mm² - cable stiffness: flexible with-cable end Power circuit: screw clamp terminals 2 1.56 mm² - cable stiffness: flexible with-cable end

Tightening torque	Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 2.5 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Power circuit: 2.5 N.m - on screw clamp terminals - with screwdriver Philips No 2 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver-pozidriv No 2 Power circuit: 2.5 N.m - on screw clamp terminals - with screwdriver-pozidriv No 2
Auxiliary contact composition	1 NO + 1 NC
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	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 contact1.5 Ms on energisation between NC and NO contact
Mounting support	Rail Plate

Environment

Standards	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 IEC 60335-1
Product certifications	RINA[RETURN]CSA[RETURN]BV[RETURN]UL[RETURN]CCC[RETURN]L- ROS (Lloyds register of shipping)[RETURN]DNV[RETURN]GOST[RE- TURN]GL[RETURN]UKCA
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 conforming to IEC 60947-1 Annex Q category D 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) Vibrations contactor closed (4 Gn, 5300 Hz) Shocks contactor closed (15 Gn for 11 ms) Shocks contactor open (8 Gn for 11 ms)
Height	85 Mm
Width	45 Mm
Depth	92 Mm
Net weight	0.37 Kg

Packing Units

Unit Type of Package 3	P06
Package 2 Weight	8.715 Kg
Package 2 Length	40.0 Cm
Package 2 Width	30.0 Cm
Package 2 Height	15.0 Cm
Number of Units in Package 2	20
Unit Type of Package 2	S02
Package 1 Weight	414.0 G
Package 1 Length	11.2 Cm
Package 1 Width	9.2 Cm
Package 1 Height	5.0 Cm
Number of Units in Package 1	1
Unit Type of Package 1	PCE
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Number of Units in Package 3	320
Package 3 Height	75.0 Cm
Package 3 Width	80.0 Cm
Package 3 Length	60.0 Cm
Package 3 Weight	147.94 Kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	☑ REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Compliant EEU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	[™] China RoHS Declaration
RoHS exemption information	₫Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
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

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VVarrantv	18 months
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Product Life Status : Commercialised

