

TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 80 A - 24 V AC 50/60 Hz coil

Local distributor code: 381820912 LC1D80B7

EAN Code: 3389110440034

Range	TeSys		
Range of product	TeSys D		
Product or component type	Contactor		
Device short name	LC1D		
Contactor application	Motor control Resistive load		
Utilisation category	AC-1 AC-4 AC-3 AC-3e		
Poles description	lescription 3P		
[Ue] rated operational voltage	Power circuit: <= 300 V DC 25400 Hz Power circuit: <= 690 V AC		
[le] rated operational current	rated operational current 125 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 80 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 80 A (at <60 °C) at <= 440 V AC-3e for power circuit		

Complementary

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	
Protective cover	With	
Contact compatibility	ntact compatibility M11	
Pole contact composition	3 NO	
	60 hp at 575/600 V AC 50/60 Hz for 3 phases motors	
	30 hp at 230/240 V AC 50/60 Hz for 3 phases motors 60 hp at 460/480 V AC 50/60 Hz for 3 phases motors	
	30 hp at 200/208 V AC 50/60 Hz for 3 phases motors	
·	15 hp at 230/240 V AC 50/60 Hz for 1 phase motors	
Motor power hp	7.5 hp at 120 V AC 50/60 Hz for 1 phase motors	
	15 kW at 400 V AC 50/60 Hz (AC-4)	
	45 kW at 1000 V AC 50/60 Hz (AC-3)	
	45 kW at 660690 V AC 50/60 Hz (AC-3)	
	55 kW at 500 V AC 50/60 Hz (AC-3)	
	37 kW at 380400 V AC 50/60 Hz (AC-3) 45 kW at 415440 V AC 50/60 Hz (AC-3)	
Motor power kW	22 kW at 220230 V AC 50/60 Hz (AC-3)	

Power circuit: 1000 V conforming to IEC 60947-4-1 Signalling circuit: 690 V conforming to IEC 60947-1 Signalling circuit: 600 V CSA certified

Power circuit: 600 V CSA certified Power circuit: 600 V UL certified

[Ui] rated insulation voltage

II II O A (at 60 °C) for signalling circuit I25 A (at 60 °C) for power circuit I40 A AC for signalling circuit conforming to IEC 60947-5-1 I250 A DC for signalling circuit conforming to IEC 60947-5-1 I100 A at 440 V for power circuit conforming to IEC 60947	
10 A (at 60 °C) for signalling circuit 125 A (at 60 °C) for power circuit 140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1 1100 A at 440 V for power circuit conforming to IEC 60947	
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250 A DC for signalling circuit conforming to IEC 60947-5-1 1100 A at 440 V for power circuit conforming to IEC 60947	
1100 A at 440 V for power circuit conforming to IEC 60947	
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	
AC at 50/60 Hz	
Nithout built-in suppressor module	
0.851.1 Uc (-4055 °C):operational AC 60 Hz 0.30.6 Uc (-4070 °C):drop-out AC 50/60 Hz 0.81.1 Uc (-4055 °C):operational AC 50 Hz 11.1 Uc (5570 °C):operational AC 50/60 Hz	
0.8 mOhm - Ith 125 A 50 Hz for power circuit	
5.1 W AC-3 12.5 W AC-1 5.1 W AC-3e	
5 mA for signalling circuit	
17 V for signalling circuit	
1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact	
3600 cyc/h 60 °C	
245 VA 60 Hz cos phi 0.75 (at 20 °C) 245 VA 50 Hz cos phi 0.75 (at 20 °C)	
26 VA 60 Hz cos phi 0.3 (at 20 °C) 26 VA 50 Hz cos phi 0.3 (at 20 °C)	
> 10 MOhm for signalling circuit	
Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 12 N.m - on connector - with screwdriver flat Ø 6 to Ø 8 mm Power circuit: 12 N.m - on connector hexagonal screw head 4 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver pozidriv No 2	
Plate Rail	
0.8 Mcycles 125 A AC-1 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3e at Ue <= 440 V	
1 Mcycles	
310d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 310d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1	
03000 m	
LC1D	
JL GOST DNV BV CSA RINA LROS (Lloyds register of shipping)	

conforming to IACS E10

Environment Climatic withstand

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	1.59 kg	
Packing Units		
Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Weight	1.555 kg	
Package 1 Height	9.5 cm	
Package 1 width	13.5 cm	
Package 1 Length	14.0 cm	
Unit Type of Package 2	S02	
Number of Units in Package 2	5	
Package 2 Weight	8.1 kg	
Package 2 Height	15.0 cm	
Package 2 width	30.0 cm	
Package 2 Length	40.0 cm	
Unit Type of Package 3	P06	
Number of Units in Package 3	80	
Package 3 Weight	138.1 kg	
Package 3 Height	77.0 cm	
Package 3 width	80.0 cm	
Package 3 Length	60.0 cm	
Offer Sustainability		
Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
REACh free of SVHC	Yes	
EU RoHS Directive	Compliant EU RoHS Declaration	
Toxic heavy metal free	Yes	
Mercury free	Yes	
RoHS exemption information	Yes	
China RoHS Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)	
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

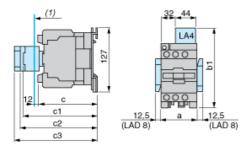
Warranty 18 months

Product datasheet

LC1D80B7

Dimensions Drawings

Dimensions



(1) Minimum electrical clearance

LC1		D80	D95
а		85	85
b1	with LA4 D●2	135	135
	with LA4 DB3 or LAD 4BB3	135	-
	with LA4 DF, DT	142	142
	with LA4 DM, DW, DL	150	150
С	without cover or add-on blocks	125	125
	with cover, without add-on blocks	130	130
c1	with LAD N (1 contact)	150	150
	with LAD N or C (2 or 4 contacts)	158	158
c2	with LA6 DK10, LAD 6DK	170	170
с3	with LAD T, R, S	178	178
	with LAD T, R, S and sealing cover	182	182

Product datasheet

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Connections and Schema

Wiring

