Product data sheet Characteristics

LC1D80E7

TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 80 A - 48 V AC 50/60 Hz coil





Main

Range	TeSys	
Product name	TeSys D	
Product or component type	Contactor	
Device short name	LC1D	
Contactor application	Motor control Resistive load	
Utilisation category	AC-3 AC-1 AC-4	
Poles description	3P	
Power pole contact composition	3 NO	
[Ue] rated operational voltage	Power circuit: <= 300 V DC 25400 Hz Power circuit: <= 690 V AC	
[le] 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	
Motor power kW	22 kW at 220230 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) 55 kW at 500 V AC 50/60 Hz (AC-3) 45 kW at 660690 V AC 50/60 Hz (AC-3) 45 kW at 1000 V AC 50/60 Hz (AC-3) 15 kW at 400 V AC 50/60 Hz (AC-4)	
Motor power HP (UL / CSA)	20 hp at 200/208 V AC 50/60 Hz for 3 phases motors 7.5 hp at 115 V AC 50/60 Hz for 1 phase motors 15 hp at 230/240 V AC 50/60 Hz for 1 phase motors 25 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 60 hp at 575/600 V AC 50/60 Hz for 3 phases motors	
Control circuit type	AC at 50/60 Hz	
[Uc] control circuit voltage	48 V AC 50/60 Hz	
Auxiliary contact composition	1 NO + 1 NC	F
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Comportation af the air thermal content of the conforming to lect outsets	[Llimp] rated impulse withstead valters	8 kV conforming to IEC 60047	
Info conventional fine air thermal 19 A of 60 °C) for signaling circuit courser! 125 A (at 60 °C) for power circuit 125 A (at 60 °C) for power circuit 125 A (at 60 °C) for power circuit conforming to IEC 60947 120 A D C for signaling circuit conforming to IEC 60947 120 A D C for signaling circuit conforming to IEC 60947 120 A D C for signaling circuit conforming to IEC 60947 120 A D C for signaling circuit conforming to IEC 60947 120 A D C for signaling circuit conforming to IEC 60947 120 A D C for signaling circuit conforming to IEC 60947 120 A D C for signaling circuit conforming to IEC 60947 120 A D C for signaling circuit 120 A D C for signaling	[Uimp] rated impulse withstand voltage Overvoltage category	8 kV conforming to IEC 60947	
Irms rated making capacity 140 A AC for signaling pircuit conforming to IEC 60947-5-1 259 A C for signaling pircuit conforming to IEC 60947 Rated breaking capacity 1100 A at 440 V for power circuit conforming to IEC 60947 1100 A at 440 V for power circuit conforming to IEC 60947 1100 A at 440 V for power circuit conforming to IEC 60947 1100 A at 440 V for power circuit soft conforming to IEC 60947 1100 A at 440 V for power circuit soft conforming to IEC 60947 1100 A 10 V - 1 is for power circuit soft conforming to IEC 60947 1100 A - 1 is for signaling circuit soft conforming to IEC 60947-5-1 200 A 0 V - 1 im for power circuit soft conforming to IEC 60947-5-1 200 A 0 G at \$\circ \circ	[lth] conventional free air thermal	10 A (at 60 °C) for signalling circuit	
Rated breaking 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	
Icay rated short-time withstand current 640 A 40 °C - 10 in for power circuit 190 A 40 °C - 18 in for power circuit 190 A 40 °C - 18 in for power circuit 190 A 40 °C - 18 in for power circuit 190 A 40 °C - 18 in for power circuit 190 A 50 °C - 18 in for power circuit 190 A 50 °C - 18 in for power circuit 190 A 50 °C - 18 in for power circuit 190 A 50 °C - 18 in for power circuit 190 A 50 °C - 18 in for power circuit 190 A 50 °C - 18 in for power circuit 190 A 50 °C - 18 in for power circuit 190 A 50 °C - 18 in for power circuit 190 A 50 °C - 190 °C	Rated breaking capacity		
200 Å gG at <= 690 V coordination type 2 for power circuit 180 A gG at <= 690 V coordination type 2 for power circuit Average impedance 0.8 mOhm - Ith 125 A 50 Hz for power circuit Power circuit : 1000 V CSA certified Power circuit : 1000 V L certified Power circuit : 1000 V L certified Power circuit : 1000 V UL certified Power circuit : 1000 V UL certified Power circuit : 1000 V CSA certified Signalling circuit : 800 V CSA certified Signalling circuit : 800 V UL certified 1.5 Mcycles 125 A AC-1 at Ue <= 440 V 1.5 Mcycles 125 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 AC-3 12.5 W AC-1 Front cover With Mounting support Plate Rail Standards CSA C22.2 No 14 EN 60947-8-1 IEC 60047-8-1 IEC 60047-8		640 A 40 °C - 10 s for power circuit 990 A 40 °C - 1 s for power circuit 135 A 40 °C - 10 min for power circuit 320 A 40 °C - 1 min for power circuit 100 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit	
Power circuit: 600 V CSA certified Signalling circuit: 600 V	Associated fuse rating	200 A gG at <= 690 V coordination type 1 for power circuit	
Power circuit: 600 V UL certified Power circuit: 500 V Conforming to IEC 60947-4-1 Signalling circuit: 600 V Conforming to IEC 60947-4-1 Signalling circuit: 600 V CSA certified Signalling circuit: 600 V CSA certified Signalling circuit: 600 V UL certified Electrical durability 0.8 Mycyles 125 A AC-1 at Ue <= 440 V 1.5 Mycyles 80 A AC-3 at Ue <= 440 V Power dissipation per pole 5.1 W AC-3 12.5 W AC-1 Front cover With Mounting support Plate Rail Standards CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 EC 60947-5-1 EC 60947-5-1 UL 508 Product certifications CSA BY	Average impedance	0.8 mOhm - Ith 125 A 50 Hz for power circuit	
1.5 Mcycles 80 A AC-3 at Ue <= 440 V Power dissipation per pole 5.1 W AC-3 12.5 W AC-1 Front cover With Mounting support Plate Rail Standards CSA C22.2 No 14 EN 60947-8-1 IEC 60947-8-1 IEC 60947-8-1 UL 508 Product certifications CSA BV UL GOST RINA CCC GL LROS (Lloyds register of shipping) DNV Connections - terminals Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 1 anm³flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 1 anm³flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 1 anm³flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 1 anm³flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1 anm³flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1 anm³flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1 anm³flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1 anm³flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1 anm³flexible without cable end Power circuit: connector 1 cable(s) 4 50 mm³flexible without cable end Power circuit: connector 1 cable(s) 4 50 mm³flexible without cable end Power circuit: connector 2 cable(s) 4 50 mm³flexible with cable end Power circuit: connector 2 cable(s) 4 50 mm³flexible with cable end Power circuit: connector 2 cable(s) 4 50 mm³flexible with cable end Power circuit: connector 2 cable(s) 4 50 mm³flexible with cable end Power circuit: connector 2 cable(s) 4 50 mm³flexible with cable end Power circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat 0 6 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat 0 6 mm Power circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat 0 6 mm Power circuit: 1.2 N.m - on connector hexagonal screw head 4 mm Derating time 2035 ms closing 620 m	[Ui] rated insulation voltage	Power circuit: 600 V UL certified 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	
12.5 W AC-1	Electrical durability	· ·	
Mounting support Plate Rail Standards CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-5-1 IEC 60947-5-1 UL 508 Product certifications CSA BV UL GOST RINA CCCC GL LROS (Lloyds register of shipping) DNV Connections - terminals Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 12.4 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²solid without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²solid without cable end Power circuit: connector 2 cable(s) 450 mm²flexible without cable end Power circuit: connector 2 cable(s) 450 mm²flexible without cable end Power circuit: connector 2 cable(s) 450 mm²flexible with cable end Power circuit: connector 1 cable(s) 450 mm²flexible with cable end Power circuit: connector 1 cable(s) 450 mm²flexible with cable end Power circuit: connector 1 cable(s) 450 mm²flexible with cable end Power circuit: connector 1 cable(s) 450 mm²flexible with cable end Power circuit: connector 1 cable(s) 450 mm²flexible with cable end Power circuit: connector 1 cable(s) 450 mm²flexible with cable end Power circuit: connector 2 cable(s) 450 mm²flexible with cable end Power circuit: connector 1 cable(s) 450 mm²flexible with cable end Power circuit: connector 1 cable(s) 450 mm²flexible with cable end Power circuit: connector 2 cable(s) 450 mm²flexible with cable end Power circuit: connector 1 cable(s) 450 mm²flexible with cable end Power circuit: 12 N.m - on screw clamp terminals - with sc	Power dissipation per pole		
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Control circuit: screw clamp terminals 1 cable(s) 12.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²solid without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²solid without cable end Control circuit: connector 1 cable(s) 450 mm²flexible without cable end Power circuit: connector 2 cable(s) 450 mm²flexible without cable end Power circuit: connector 1 cable(s) 450 mm²flexible with cable end Power circuit: connector 2 cable(s) 450 mm²flexible with cable end Power circuit: connector 2 cable(s) 450 mm²flexible with cable end Power circuit: connector 1 cable(s) 450 mm²flexible with cable end Power circuit: connector 2 cable(s) 450 mm²flexible with cable end Power circuit: connector 2 cable(s) 450 mm²flexible with cable end Power 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: 1.2 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 Operating time 2035 ms closing 620 ms opening Safety reliability level B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1	Product certifications	BV UL GOST RINA CCC GL LROS (Lloyds register of shipping)	
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 Operating time 2035 ms closing 620 ms opening Safety reliability level B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1	Connections - terminals	ontrol circuit: screw clamp terminals 1 cable(s) 12.5 mm²flexible with cable end ontrol circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end ontrol circuit: screw clamp terminals 2 cable(s) 14 mm²flexible without cable end ontrol circuit: screw clamp terminals 1 cable(s) 14 mm²solid without cable end ontrol circuit: screw clamp terminals 2 cable(s) 14 mm²solid without cable end over circuit: connector 1 cable(s) 450 mm²flexible without cable end over circuit: connector 2 cable(s) 425 mm²flexible without cable end over circuit: connector 1 cable(s) 450 mm²flexible with cable end over circuit: connector 2 cable(s) 450 mm²flexible with cable end over circuit: connector 1 cable(s) 416 mm²flexible with cable end over circuit: connector 1 cable(s) 450 mm²solid without cable end	
620 ms opening Safety reliability level B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1	Tightening torque	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	
	Operating time	· · · · · · · · · · · · · · · · · · ·	
	Safety reliability level	B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1	

Mechanical durability	4 Mcycles
Maximum operating rate	3600 cyc/h 60 °C

Complementary

Coil technology	Without built-in suppressor module	
Control circuit voltage limits	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	
Inrush power in VA	245 VA 60 Hz cos phi 0.75 (at 20 °C) 245 VA 50 Hz cos phi 0.75 (at 20 °C)	
Hold-in power consumption in VA	26 VA 60 Hz cos phi 0.3 (at 20 °C) 26 VA 50 Hz cos phi 0.3 (at 20 °C)	
Heat dissipation	610 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	25400 Hz	
Minimum switching current	5 mA for signalling circuit	
Minimum switching voltage	17 V for 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 for signalling circuit	

Environment

IP degree of protection	IP20 front face conforming to IEC 60529	
Protective treatment	TH conforming to IEC 60068-2-30	
Pollution degree	3	
Ambient air temperature for operation	-4060 °C 6070 °C with derating	
Ambient air temperature for storage	-6080 °C	
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 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	1.554 kg
Package 1 Height	9.5 cm
Package 1 width	13.5 cm
Package 1 Length	16 cm
Unit Type of Package 2	S02
Number of Units in Package 2	5
Package 2 Weight	8.085 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm

Unit Type of Package 3	P06
Number of Units in Package 3	80
Package 3 Weight	133.18 kg
Package 3 Height	80 cm
Package 3 width	80 cm
Package 3 Length	60 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	
California proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov	

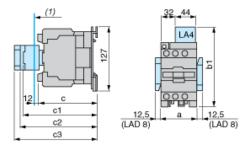
Contractual warranty

Warranty	18 months	

Product data sheet Dimensions Drawings

LC1D80E7

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 data sheet Connections and Schema

LC1D80E7

Wiring

