LC1D80F7

contactor, TeSys Deca, 3P(3NO), AC-3/AC-3e, 440V, 80A, 110V AC 50/60Hz coil





Main Range TeSys Range of product TeSys D Contactor Product or component type LC1D Device short name Motor control Contactor application Resistive load AC-1 Utilisation category AC-4 AC-3 AC-3e 3P Poles description [Ue] rated operational Power circuit: <= 300 V DC 25...400 Hz voltage Power circuit: <= 690 V AC

circuit

125 A (at <60 °C) at <= 440 V AC AC-1 for power

80 A (at <60 °C) at <= 440 V AC AC-3 for power

80 A (at <60 °C) at <= 440 V AC-3e for power circuit

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- Complementary		
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	7.5 Hp at 120 V AC 50/60 Hz for 1 phase motors 15 Hp at 230/240 V AC 50/60 Hz for 1 phase motors 30 Hp at 200/208 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 60 hp at 575/600 V AC 50/60 Hz for 3 phases motors	
Pole contact composition	3 NO	
Contact compatibility	M11	
Protective cover	With	
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	
Auxiliary contact composition	1 NO + 1 NC	
[Ui] rated insulation voltage	Power circuit: 600 V CSA certified 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 Signalling circuit: 600 V UL certified	
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947	
Overvoltage category	III	
[lth] conventional free air thermal current	10 A (at 60 °C) for signalling circuit 125 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 1100 A at 440 V for power circuit conforming to IEC 60947	
Rated breaking capacity	1100 A at 440 V for power circuit conforming to IEC 60947	

[le] rated operational

current

Associated fuse rating	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	
Control circuit type	AC at 50/60 Hz	
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	
Average impedance	0.8 mOhm - Ith 125 A 50 Hz for power circuit	
Power dissipation per pole	5.1 W AC-3 12.5 W AC-1 5.1 W AC-3e	
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	
Maximum operating rate	3600 cyc/h 60 °C	
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)	
Insulation resistance	> 10 MOhm for signalling circuit	
Tightening torque	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	
Mounting support	Rail Plate	
Electrical durability	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	
Mechanical durability	4 Mcycles	
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	
Operating altitude	03000 m	
Compatibility code	LC1D	
Product certifications	GL RINA BV DNV LROS (Lloyds register of shipping) CCC GOST UL CSA	

Environment

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Climatic withstand	Conforming to IACS E10	
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	
Package 1 Length	14.2 cm	
Number of Units in Package 1	1	
Package 1 Width	13.4 cm	
Package 1 Height	9.4 cm	
Package 1 Weight	1.558 kg	

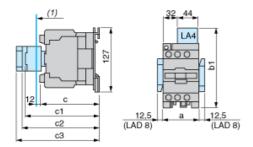
Offer Sustainability

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	
RoHS exemption information	€Yes	
China RoHS Regulation	China RoHS Declaration	
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. F more information go to www.P65Warnings.ca.gov	

Contractual warranty		
Warranty	18 months	

Product data sheet 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
c3	with LAD T, R, S	178	178
with LAD T, R, S and sealing cover	182	182	

Wiring

