Product data sheet Characteristics

LC1D65E7 CONTACTOR 600VAC 65AMP IEC +OPTIONS





Main

Range of product	TeSys D	· ·
Range	TeSys	
Product or component type	Contactor	1
Device short name	LC1D	
Contactor application	Resistive load Motor control	4
Utilisation category	AC-4 AC-2 AC-1 AC-3 AC-3e	11.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.
Control circuit type	AC at 50/60 Hz	
Poles description	3P	
Pole contact composition	3 NO	7
[le] rated operational current	80 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 65 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 65 A (at <60 °C) at <= 440 V AC AC-3e for power circuit	
Motor power kW	30 kW at 440 V AC 50 Hz (AC-3) 11 kW at 400 V AC 50 Hz (AC-4) 30 kW at 380400 V AC 50 Hz (AC-3) 37 kW at 500 V AC 50 Hz (AC-3) 37 kW at 660690 V AC 50 Hz (AC-3) 18.5 kW at 220230 V AC 50 Hz (AC-3) 30 kW at 415 V AC 50 Hz (AC-3) 37 kW at 1000 V AC 50 Hz (AC-3) 30 kW at 440 V AC 50 Hz (AC-3e) 30 kW at 380400 V AC 50 Hz (AC-3e) 37 kW at 500 V AC 50 Hz (AC-3e) 37 kW at 500 V AC 50 Hz (AC-3e) 37 kW at 500 V AC 50 Hz (AC-3e) 38 kW at 440 V AC 50 Hz (AC-3e) 39 kW at 440 V AC 50 Hz (AC-3e) 30 kW at 440 V AC 50 Hz (AC-3e) 37 kW at 500 V AC 50 Hz (AC-3e) 38 kW at 415 V AC 50 Hz (AC-3e) 39 kW at 415 V AC 50 Hz (AC-3e)	

Complementary

Complementary		
Coil technology	Without built-in bidirectional peak limiting diode suppressor	
Front cover	With	
Motor power hp	5 hp at 115 V AC 60 Hz for 1 phase motors 10 hp at 230/240 V AC 60 Hz for 1 phase motors 20 hp at 200/208 V AC 60 Hz for 3 phases motors 20 hp at 230/240 V AC 60 Hz for 3 phases motors 40 hp at 460/480 V AC 60 Hz for 3 phases motors 50 hp at 575/600 V AC 60 Hz for 3 phases motors	
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	
[Uc] control circuit voltage	48 V AC 50/60 Hz	
Control circuit voltage limits	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	
[Ui] rated insulation voltage	Control circuit: 600 V CSA certified Control circuit: 600 V UL certified Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Power circuit: 600 V UL certified Control circuit: 690 V conforming to IEC 60947-1 Power circuit: 690 V conforming to IEC 60947-1	
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947	
Overvoltage category	III	
Mounting support	Plate Rail	
Flame retardance	V1 conforming to UL 94	
Connections - terminals	Control circuit: screw clamp terminals 1 cable(s) 14 mm²rigid Control circuit: screw clamp terminals 2 cable(s) 14 mm²rigid 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 1 cable(s) 12.5 mm²flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end Power circuit: screw terminals 1 cable(s) 2.525 mm²rigid Power circuit: screw terminals 2 cable(s) 2.516 mm²rigid Power circuit: screw terminals 1 cable(s) 2.525 mm²flexible without cable end Power circuit: screw terminals 2 cable(s) 2.516 mm²flexible without cable end Power circuit: screw terminals 1 cable(s) 2.525 mm²flexible with cable end Power circuit: screw terminals 2 cable(s) 2.525 mm²flexible with cable end	
Tightening torque	Control circuit: 1.7 N.m - on screw clamp terminal - with screwdriver flat \emptyset 6 mm Control circuit: 1.7 N.m - on screw clamp terminal - with screwdriver Philips No 2 Power circuit: 5 N.m - on screw terminal - with screwdriver flat \emptyset 6 to \emptyset 8 mm	
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25400 Hz	
[Ith] conventional free air thermal current	10 A (at 60 °C) for control circuit 80 A (at 60 °C) for power circuit	
Irms rated making capacity	1000 A at 440 V for power circuit conforming to IEC 60947 140 A AC for control circuit conforming to IEC 60947-5-1	
Rated breaking capacity	1000 A at 440 V for power circuit conforming to IEC 60947	
Associated fuse rating	10 A gG for control circuit conforming to IEC 60947-5-1 125 A gG at <= 690 V coordination type 2 for power circuit 160 A gG at <= 690 V coordination type 1 for power circuit	
Power dissipation per pole	4.2 W AC-3 6.4 W AC-1 4.2 W AC-3e	
Inrush power in VA	140 VA cos phi 0.75 (at 20 °C) 160 VA cos phi 0.75 (at 20 °C)	
Hold-in power consumption in VA	13 VA 60 Hz cos phi 0.3 (at 20 °C) 15 VA 50 Hz cos phi 0.3 (at 20 °C)	
Operating time	419 ms opening 1226 ms closing	
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	6000000 cycles
Maximum operating rate	3600 cyc/h 60 °C
Minimum switching current	5 mA for control circuit
Minimum switching voltage	17 V for control circuit
Non-overlap time	1.5 ms on de-energisation between NC and NO contacts 1.5 ms on energisation between NC and NO contacts
Insulation resistance	> 10 MOhm for control circuit
Height	127 mm
Width	75 mm
Depth	119 mm
Product weight	1.4 kg

Environment

Standards	EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 EN 60947-4-1 CSA C22.2 No 14
	UL 508
Product certifications	CSA GOST CCC UL DNV RINA LROS (Lloyds register of shipping) BV GL UKCA
IP degree of protection	IP2x conforming to IEC 60529 IP2x conforming to VDE 0106
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
Shock resistance	10 gn contactor opened 15 gn contactor closed
Vibration resistance	2 gn 5300 Hz contactor opened 4 gn 5300 Hz contactor closed
Heat dissipation	45 W at 50/60 Hz for control circuit

Packing Units

r acking office	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	1.442 kg
Package 1 Height	9.5 cm
Package 1 width	13.2 cm
Package 1 Length	14 cm
Unit Type of Package 2	S02
Number of Units in Package 2	5
Package 2 Weight	7.531 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm
Package 3 Height	77 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	
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	
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

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Warranty		18 months