Product data sheet Characteristics

LC1E300M5

contactor TeSys LC1-E - 3 poles - AC-3 690V 300 A - coil 220 V AC - 50 Hz

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Range of product	TeSys E
Product or component type	Contactor
Device short name	LC1E
Contactor application	Motor control
Utilisation category	AC-1 AC-3
Control circuit type	AC
Poles description	3P
Motor power kW	250 kW at 690 V 200 kW at 500 V 185 kW at 440 V 160 kW at 380400 V 90 kW at 220230 V AC 50 Hz
[le] rated operational current	300 A (<= 55 °C)AC AC-3 for power circuit <= 440 V
Auxiliary contact composition	Without
Control circuit voltage	220 V AC 50 Hz
Control circuit voltage limits	0.851.1 Uc at <= 55 °C operational 50 Hz

Complementary

Complementary	
[Ue] rated operational voltage	690 V AC for power circuit
[Ui] rated insulation voltage	690 V for control circuit conforming to IEC 60947-4-1
[Uimp] rated impulse withstand voltage	8 kV (coil not connected to the power circuit)
Overvoltage category	III
Connections - terminals	Power circuit: cable - 1 flexible cable(s)120 mm² with cable end Power circuit: bars - 2 5 x 30 mm² Control circuit: cable - 2 flexible cable(s)14 mm² with cable end Control circuit: cable - 2 flexible cable(s)14 mm² without cable end Power circuit: cable - 2 solid cable(s)18 mm² without cable end Power circuit: cable - 1 solid cable(s)08 mm without cable end Control circuit: cable - 2 solid cable(s)12.5 mm² without cable end Power circuit: cable with lug 120 mm² Power circuit: bolted connectionØ10 mm
Tightening torque	1.2 N.m for control circuit 35 N.m for power circuit
[lth] conventional free air thermal current	320 A at <= 40 °C for power circuit
Irms rated making capacity	3000 A - 440 V AC for power circuit conforming to IEC 60947-4-1
Rated breaking capacity	2200 kA at 440 V for power circuit conforming to IEC 60947-4-1
[lcw] rated short-time withstand current	2200 kA at <= 40 °C - 10 s for power circuit
Associated fuse rating	500 A gG <= 690 V type 1 power circuit 10 A gG control circuit IEC 60947-5-1
Average impedance	0.3 mOhm at 50 Hz Ith 320 A for power circuit
Power dissipation per pole	16 W AC-1 21 W AC-3
Inrush power in VA	650 VA at 20 °C (0.9)50 Hz
Hold-in power consumption in VA	10 VA at 20 °C (0.9)50 Hz
Operating time	100170 ms on opening 4065 ms on closing
Mechanical durability	3000000 cycles

Electrical durability	400000 cycles AC-1 20000 cycles AC-4 800000 cycles AC-3
Operating rate	1200 cyc/h at <= 55 °C
Minimum switching current	5 mA control circuit
Minimum switching voltage	17 V control circuit
Non-overlap time	1.5 ms on de-energisation guaranteed between NC and NO contact 1.5 ms on energisation guaranteed between NC and NO contact
Insulation resistance	> 10 MOhm control circuit
Rated operational power in W	250 kW at 690 V AC-3 for control circuit 200 kW at 500 V AC-3 for control circuit 185 kW at 440 V AC-3 for control circuit 160 kW at 400 V AC-3 for control circuit 160 kW at 380 V AC-3 for control circuit 90 kW at 230 V AC-3 for control circuit 90 kW at 220 V AC-3 for control circuit
Height	174 mm
Width	168.5 mm
Depth	137 mm
Product weight	7.44 kg
Standards	IEC 60947-1 IEC 60947-4-1 IEC 60947-5-1
Product certifications	GOST
IP degree of protection	IP00 conforming to IEC 60529
Protective treatment	TH IEC 60068 3
Ambient air temperature for operation	-6080 °C
Ambient air temperature for storage	-555 °C
Permissible ambient air temperature around the device	-4070 °C at Uc
Operating altitude	3000 m without derating
Fire resistance	850 °C IEC 60695-2-1
Shock resistance	6 gn - 11 ms half sine wave acceleration - contactor open 15 gn - 11 ms half sine wave acceleration - contactor closed
Vibration resistance	5 gn at 5300 Hz - contactor closed 2 gn at 5300 Hz - contactor open
Heat dissipation	8 W for control circuit
Offer Sustainability	
Sustainable offer status	Not Green Premium product
RoHS	Compliant - since 1110 - Schneider Electric declaration of conformity
Contractual warranty	
Pariod	10 months

18 months

Period