Product data sheet
Characteristics

LC1E50Q5
EasyPact TVS contactor 3P(3 NO) - AC-3 - <= 440 V 50A - 380 V AC coil

Main

Range	EasyPact
Product name	EasyPact TVS
Product or component type	Contactor
Device short name	LC1E
Contactor application	Motor control Resistive load
Utilisation category	AC-1 AC-3
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	<= 690 V AC 50/60 Hz for power circuit
[Ie] rated operational current	70 A (<= 55 °C) AC AC-1 for power circuit <= 440 V 50 A (<= 60 °C) AC AC-3 for power circuit <= 440 V
Motor power kW	33 kW at 660...690 V 30 kW at 500 V 30 kW at 440 V 25 kW at 415 V 22 kW at 380...400 V 15 kW at 220...230 V AC 50/60 Hz
Control circuit type	AC 50 Hz standard
Control circuit voltage	380 V AC 50 Hz
Auxiliary contact composition	1 NO + 1 NC
[Uimp] rated impulse withstand voltage	6 kV (coil not connected to the power circuit) IEC 60947
Overvoltage category	III
Irms rated making capacity	500 A - 440 V AC for power circuit conforming to IEC 60947-4-1
Rated breaking capacity	400 kA at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	At <= 40 °C - 600 s for power circuit At <= 40 °C - 60 s for power circuit At <= 40 °C - 10 s for power circuit
Associated fuse rating	 IEC 60947-5-1
Average impedance	1.5 mOhm at 50 Hz Ith 70 A for power circuit
[Ui] rated insulation voltage	690 V conforming to IEC 60947-4-1
Electrical durability	AC-3 AC-1
Power dissipation per pole	AC-1 AC-3
Mounting support	DIN rail Plate
Standards	IEC 60947-1 IEC 60947-4-1 IEC 60947-5-1
Product certifications	GOST

Connections - terminals	Power circuit : screw clamp terminals - 2 solid cable(s) 2.5...16 mm² without cable end cable end Power circuit : screw clamp terminals - 1 solid cable(s) 2.5...25 mm² without cable end cable end Power circuit : screw clamp terminals - 2 flexible cable(s) 2.5...10 mm² with cable end cable end Power circuit : screw clamp terminals - 1 flexible cable(s) 2.5...25 mm² with cable end cable end Control circuit : screw clamp terminals - 2 solid cable(s) 1...4 mm² without cable end cable end Control circuit : screw clamp terminals - 1 solid cable(s) 1...4 mm² without cable end cable end Control circuit : screw clamp terminals - 2 flexible cable(s) 1...2.5 mm² with cable end cable end Control circuit : screw clamp terminals - 1 flexible cable(s) 1...4 mm² with cable end cable end Control circuit : screw clamp terminals - 2 flexible cable(s) 1...4 mm² without cable end cable end Control circuit : screw clamp terminals - 1 flexible cable(s) 1...4 mm² without cable end cable end
Tightening torque	5 N.m for power circuit 1.2 N.m for control circuit
Operating time	
Mechanical durability	5000000 cycles
Operating rate	1200 cyc/h at <= 60 °C

Complementary

Control circuit voltage limits	0.3...0.6 Uc at <= 55 °C drop-out 50 Hz 0.85...1.1 Uc at <= 55 °C operational 50 Hz
Inrush power in VA	140 VA at 20 °C (0.75) 60 Hz 160 VA at 20 °C (0.75) 50 Hz
Hold-in power consumption in VA	13 VA at 20 °C (0.3) 60 Hz 15 VA at 20 °C (0.3) 50 Hz
Heat dissipation	6...10 W for control circuit
Non-overlap time	

Environment

IP degree of protection	IP2x conforming to IEC 60529
Protective treatment	IEC 60068
Pollution degree	3
Ambient air temperature for operation	5...55 °C
Ambient air temperature for storage	-60...80 °C
Operating altitude	3000 m without derating
Fire resistance	IEC 60695-2-1
Mechanical robustness	Shocks contactor closed 7 Gn for 11 ms Shocks contactor open 6 Gn for 11 ms Vibrations contactor closed 3 Gn, 5...300 Hz Vibrations contactor open 1.5 Gn, 5...300 Hz
Height	127 mm
Width	75 mm
Depth	114 mm
Product weight	0.98 kg

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1110 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Need no specific recycling operations