

LC1E2510M5

EasyPact TVS contactor 3P(3 NO) - AC-3 - <= 440 V 25A - 220 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	25 A (<= 60 °C) AC AC-3 for power circuit <= 440 V 36 A (<= 60 °C) AC AC-1 for power circuit <= 440 V
Motor power kW	15 kW at 660...690 V 11 kW at 380...400 V 11 kW at 415 V 11 kW at 440 V 5.5 kW at 220...230 V AC 50/60 Hz 15 kW at 500 V
Control circuit type	AC 50 Hz
[Uc] control circuit voltage	220 V AC 50 Hz
Height	74 mm
Width	45 mm
Depth	85 mm
Product weight	0.36 kg
Colour	Grey RAL 7011

Complementary

Auxiliary contact composition	1 NO
[Uimp] rated impulse withstand voltage	6 kV (coil not connected to the power circuit) IEC 60947



[Ui] rated insulation voltage	690 V conforming to IEC 60947-4-1
Overvoltage category	III
Irms rated making capacity	250 A - 440 V AC for power circuit conforming to IEC 60947-4-1
Rated breaking capacity	200 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	240 A at $\leq 40\text{ }^{\circ}\text{C}$ - 10 s for power circuit 120 A at $\leq 40\text{ }^{\circ}\text{C}$ - 60 s for power circuit 50 A at $\leq 40\text{ }^{\circ}\text{C}$ - 600 s for power circuit
Associated fuse rating	10 A gG $\leq 690\text{ V}$ type 1 control circuit IEC 60947-5-1 40 A gG $\leq 690\text{ V}$ type 1 power circuit
Average impedance	2.5 mOhm at 50 Hz Ith 36 A for power circuit
Power dissipation per pole	3.2 W AC-1 1.6 W AC-3
Control circuit voltage limits	0.3...0.6 U_c at $\leq 55\text{ }^{\circ}\text{C}$ drop-out 50 Hz 0.85...1.1 U_c at $\leq 55\text{ }^{\circ}\text{C}$ operational 50 Hz
Operating time	12...22 ms on closing 4...19 ms on opening
Mechanical durability	10000000 cycles
Operating rate	1800 cyc/h at $\leq 60\text{ }^{\circ}\text{C}$
Inrush power in VA	95 VA at $20\text{ }^{\circ}\text{C}$ (0.75) 60 Hz 95 VA at $20\text{ }^{\circ}\text{C}$ (0.75) 50 Hz
Hold-in power consumption in VA	8.5 VA at $20\text{ }^{\circ}\text{C}$ (0.3) 50 Hz 8.5 VA at $20\text{ }^{\circ}\text{C}$ (0.3) 60 Hz
Heat dissipation	2...3 W for control circuit
Minimum switching current	5 mA control circuit
Minimum switching voltage	17 V control circuit
Non-overlap time	1.5 ms on energisation guaranteed between NC and NO contact 1.5 ms on de-energisation guaranteed between NC and NO contact
Insulation resistance	> 10 MOhm control circuit
Electrical durability	300000 cycles AC-3 350000 cycles AC-1
Mounting support	DIN rail Plate
Connections - terminals	Control circuit : screw clamp terminals - 1 flexible cable(s) 1...4 mm ² without cable end Control circuit : screw clamp terminals - 2 flexible cable(s) 1...4 mm ² without cable end Control circuit : screw clamp terminals - 1 flexible cable(s) 1...4 mm ² with cable end Control circuit : screw clamp terminals - 2 flexible cable(s) 1...2.5 mm ² with cable end Control circuit : screw clamp terminals - 1 solid cable(s) 1...4 mm ² without cable end Control circuit : screw clamp terminals - 2 solid cable(s) 1...4 mm ² without cable end Power circuit : screw clamp terminals - 1 solid cable(s) 1.5...6 mm ² without cable end Power circuit : screw clamp terminals - 2 solid cable(s) 1.5...6 mm ² without cable end Power circuit : screw clamp terminals - 1 flexible cable(s) 1...6 mm ² with cable end Power circuit : screw clamp terminals - 2 flexible cable(s) 1...4 mm ² with cable end
Tightening torque	1.5 N.m for control circuit 1.5 N.m for power circuit

Environment

Standards	IEC 60947-1 IEC 60947-4-1 IEC 60947-5-1
Product certifications	EAC
IP degree of protection	IP2x conforming to IEC 60529
Protective treatment	TH IEC 60068 3
Pollution degree	3
Ambient air temperature for operation	-5...55 °C
Ambient air temperature for storage	-60...80 °C
Permissible ambient air temperature around the device	-20...70 °C at U_c
Operating altitude	3000 m without derating
Fire resistance	850 °C IEC 60695-2-1
Mechanical robustness	Vibrations contactor open 1.5 Gn, 5...300 Hz

Vibrations contactor closed 3 Gn, 5...300 Hz
Shocks contactor closed 10 Gn for 11 ms
Shocks contactor open 6 Gn for 11 ms

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant  Schneider Electric declaration of conformity
REACH	Reference contains SVHC above the threshold  Go to CaP for more details
Product environmental profile	Available
Product end of life instructions	Need no specific recycling operations

Contractual warranty

Warranty period	18 months
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