Product data sheet Characteristics

LC1E0910B7

EasyPact TVS contactor 3P(3 NO) - AC-3 - <= 440 V 9A - 24 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-3	
	AC-1	
Poles description	3P	
Power pole contact composition	3 NO	
[Ue] rated operational voltage	Power circuit: <= 690 V AC 50/60 Hz	
[le] rated operational current	9 A (at <60 °C) at <= 440 V AC AC-3 for power circuit	
	25 A (at <60 °C) at <= 440 V AC AC-1 for power circuit	
Motor power kW	2.2 kW at 220230 V AC 50/60 Hz	
	4 kW at 380400 V	
	4 kW at 415 V	
	4 kW at 440 V	
	5.5 kW at 500 V 5.5 kW at 660690 V	
Control circuit type	AC at 50/60 Hz	
[Uc] control circuit voltage	24 V AC 50/60 Hz	
Height	74 mm	
Width	45 mm	
Depth	80 mm	
Net weight	0.3 kg	
Colour	Grey (RAL 7011)	

Complementary

Auxiliary contact composition	1 NO
Auxiliary contact composition	TINO

[Uimp] rated impulse withstand voltage	6 kV coil not connected to the power circuit conforming to IEC 60947
[Ui] rated insulation voltage	690 V conforming to IEC 60947-4-1
Overvoltage category	III
Irms rated making capacity	90 A at 440 V AC for power circuit conforming to IEC 60947-4-1
Rated breaking capacity	72 A at 440 V for power circuit conforming to IEC 60947
[lcw] rated short-time withstand current	105 A 40 °C - 10 s for power circuit 61 A 40 °C - 60 s for power circuit 30 A 40 °C - 600 s for power circuit
Associated fuse rating	10 A gG at <= 690 V coordination type 1 for control circuit conforming to IEC 60947-5-1 20 A gG at <= 690 V coordination type 1 for power circuit
Average impedance	2.5 mOhm - Ith 25 A 50 Hz for power circuit
Power dissipation per pole	0.2 W AC-3 1.6 W AC-1
Control circuit voltage limits	Operational: 0.851.1 Uc at 50/60 Hz (at <55 °C) Drop-out: 0.30.6 Uc at 50/60 Hz (at <55 °C)
Operating time	1222 ms on closing 419 ms on opening
Mechanical durability	10000000 cycles
Maximum operating rate	1800 cyc/h 60 °C
Inrush power in VA	95 VA 50 Hz cos phi 0.75 (at 20 °C) 95 VA 60 Hz cos phi 0.75 (at 20 °C)
Hold-in power consumption in VA	8.5 VA 50 Hz cos phi 0.3 (at 20 °C) 8.5 VA 60 Hz cos phi 0.3 (at 20 °C)
Heat dissipation	23 W for control circuit
Minimum switching current	5 mA for control circuit
Minimum switching voltage	17 V for 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 for control circuit
Electrical durability	1400000 cycles AC-3 150000 cycles AC-1
Mounting support	DIN rail Plate
Connections - terminals	Power circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without cable end
Tightening torque	Power circuit: 1.2 N.m Control circuit: 1.5 N.m

Environment

Standards	IEC 60947-5-1 IEC 60947-1 IEC 60947-4-1
Product certifications	EAC
IP degree of protection	IP2x conforming to IEC 60529
Protective treatment	TH (pollution degree 3) conforming to IEC 60068
Pollution degree	3
Ambient air temperature for operation	-555 °C
Ambient air temperature for storage	-6080 °C
Permissible ambient air temperature around the device	-2070 °C at Uc
Operating altitude	3000 m without derating
Fire resistance	850 °C conforming to IEC 60695-2-1

Mechanical robustness	Vibrations contactor open: 1.5 Gn, 5300 Hz Vibrations contactor closed: 3 Gn. 5300 Hz
	Shocks contactor open: 7 Gn for 11 ms Shocks contactor closed: 10 Gn for 11 ms

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	299 g
Package 1 Height	5 cm
Package 1 width	7 cm
Package 1 Length	8.5 cm
Unit Type of Package 2	S02
Number of Units in Package 2	36
Package 2 Weight	11.52 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm
Unit Type of Package 3	P06
Number of Units in Package 3	576
Package 3 Weight	188.004 kg
Package 3 Height	77 cm
Package 3 width	80 cm
Package 3 Length	60 cm

Offer Sustainability

REACh Regulation REACh free of SVHC Yes EU RoHS Directive Compliant EU RoHS Declaration Toxic heavy metal free Yes	
EU RoHS Directive Compliant EU RoHS Declaration	
EU RoHS Declaration	
Tayin has a metal from Von	
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 wast never end up in rubbish bins	te collection and