Lembar data produk
Karakteristik

LC1E630M7
EasyPact TVS contactor 3P(3 NO) - AC-3 - <= 440 V 630A - 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	630 A (<= 55 °C) AC AC-3 for power circuit <= 440 V 1000 A (<= 55 °C) AC AC-1 for power circuit <= 440 V
Motor power kW	185 kW at 220...230 V AC 50/60 Hz 335 kW at 380...400 V 375 kW at 415 V 400 kW at 440 V 450 kW at 660...690 V 400 kW at 500 V
Control circuit type	AC 50/60 Hz
[Uc] control circuit voltage	220 V AC 50/60 Hz
Height	464 mm
Width	309 mm
Depth	255 mm
Product weight	18.6 kg

Complementary

[Uimp] rated impulse withstand voltage	8 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

[Ith] conventional free air thermal current	1000 A <= 40 °C power circuit
Irms rated making capacity	6300 A - 440 V AC for power circuit conforming to IEC 60947-4-1
Rated breaking capacity	5040 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	5050 A at <= 40 °C - 10 s for power circuit
Associated fuse rating	10 A gG <= 690 V type 1 control circuit IEC 60947-5-1 800 A gG <= 690 V type 1 power circuit
Average impedance	0.12 mOhm at 50 Hz Ith 1000 A for power circuit
Power dissipation per pole	120 W AC-1 48 W AC-3
Control circuit voltage limits	0.25...0.5 Uc at <= 55 °C drop-out 50/60 Hz 0.85...1.1 Uc at <= 55 °C operational 50/60 Hz
Operating time	100...200 ms on opening 40...80 ms on closing
Mechanical durability	400000 cycles
Operating rate	1200 cyc/h at <= 55 °C
Inrush power in VA	1650 VA at 20 °C (0.9) 50 Hz 1650 VA at 20 °C (0.9) 60 Hz
Hold-in power consumption in VA	22 VA at 20 °C (0.9) 50 Hz 22 VA at 20 °C (0.9) 60 Hz
Heat dissipation	20 W 20 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	200000 cycles AC-1 600000 cycles AC-3
Mounting support	Plate
Connections - terminals	Power circuit : cable with lug - 2 Power circuit : bars - 2 60 x 5 mm Control circuit : screw clamp terminals - 1 flexible cable(s) 1...4 mm² without cable end Control circuit : screw clamp terminals - 2 flexible cable(s) 1...4 mm² without cable end Control circuit : screw clamp terminals - 1 flexible cable(s) 1...4 mm² with cable end Control circuit : screw clamp terminals - 2 flexible cable(s) 1...2.5 mm² with cable end Control circuit : screw clamp terminals - 1 solid cable(s) 1...4 mm² without cable end Control circuit : screw clamp terminals - 2 solid cable(s) 1...4 mm² without cable end
Tightening torque	58 N.m for power circuit 1.2 N.m for control 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 Uc
Operating altitude	3000 m without derating
Fire resistance	850 °C IEC 60695-2-1
Mechanical robustness	Vibrations contactor open 2 Gn, 5...300 Hz Vibrations contactor closed 4 Gn, 5...300 Hz Shocks contactor closed 15 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 - since 1332 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available Product environmental
Product end of life instructions	Need no specific recycling operations