

Product datasheet

Specifications



EasyPact TVS contactor 4P(4 NO) - AC-1 - <= 415 V 16A - 110 V AC coil

LC1E32004F7IN

Discontinued on: 19 January 2022

Discontinued

Main

Range	EasyPact
Product or component type	Contactor
Device short name	LC1E
Contactor application	Resistive load
Utilisation category	AC-1
Poles description	4P
[Ue] rated operational voltage	Power circuit: <= 690 V AC 50/60 Hz
[Ie] rated operational current	55 A (at <40 °C) at <= 415 V AC AC-1 for power circuit
[Uc] control circuit voltage	110 V AC 50/60 Hz

Complementary

Pole contact composition	4 NO
[Ith] conventional free air thermal current	55 A (at 40 °C) for power circuit
Irms rated making capacity	320 A at 440 V AC for power circuit conforming to IEC 60947-4-1
Rated breaking capacity	256 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	260 A 40 °C - 10 s for power circuit 138 A 40 °C - 60 s for power circuit 60 A 40 °C - 600 s for power circuit
Associated fuse rating	63 A gG at <= 690 V coordination type 1 for power circuit conforming to IEC 60947-5-1
Average impedance	2.5 mOhm - Ith 55 A 50 Hz for power circuit
Power dissipation per pole	2 W AC-3 5 W AC-1
[Ui] rated insulation voltage	690 V conforming to IEC 60947-4-1
Overvoltage category	III
Pollution degree	3
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947
Mechanical durability	8000000 cycles
Electrical durability	1000000 cycles AC-3 350000 cycles AC-1

Control circuit type	AC at 50/60 Hz
Control circuit voltage limits	0.85...1.1 Uc (55 °C):operational 50/60 Hz 0.3...0.6 Uc (55 °C):drop-out 50/60 Hz
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	2...3 W for control circuit
Operating time	12...22 ms on closing 4...19 ms on opening
Maximum operating rate	1800 cyc/h 60 °C
Connections - terminals	Control circuit: screw clamp terminals 1 1...4 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 1...4 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 1...4 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 1...2.5 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 1...4 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 1...4 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 1.5...10 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 1.5...10 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 1...10 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 1...6 mm² - cable stiffness: flexible with cable end
Tightening torque	Control circuit: 1.2 N.m Power circuit: 2.1 N.m
Insulation resistance	> 10 MOhm for control circuit
Mounting support	Plate DIN rail

Environment

IP degree of protection	IP2X conforming to IEC 60529
Protective treatment	TH (pollution degree 3) conforming to IEC 60068
Permissible ambient air temperature around the device	-20...70 °C at Uc -60...80 °C storage -5...55 °C operation
Operating altitude	3000 m
Fire resistance	850 °C conforming to 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)
Height	64 mm
Width	56 mm
Depth	93 mm
Net weight	0.52 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	9.3 cm
Package 1 Width	5.6 cm
Package 1 Length	8.4 cm
Package 1 Weight	520 g

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration

REACH free of SVHC	Yes
EU RoHS Directive	Compliant EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	China RoHS declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile

Recommended replacement(s)