

Product datasheet

Specifications



EasyPact TVS contactor 4P CTR 20A AC1(4NO)220V 50Hz WB

LC1E09004M5WB

Discontinued on: 19 May 2023

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	20 A (at <60 °C) at <= 415 V AC AC-1 for power circuit
[Uc] control circuit voltage	220 V AC 50 Hz

Complementary

Pole contact composition	4 NO
[Ith] conventional free air thermal current	20 A (at 60 °C) for power circuit
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
[Icw] 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	12 A gG at <= 690 V coordination type 1 for power circuit
Average impedance	2.5 mOhm - Ith 20 A 50 Hz for power circuit
Power dissipation per pole	1.6 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	10 Mcycles
Electrical durability	0.15 Mcycles AC-1
Control circuit type	AC at 50 Hz wide range

Control circuit voltage limits	0.3...0.6 Uc (55 °C):drop-out 50 Hz 0.7...1.25 Uc (55 °C):operational 50 Hz
Inrush power in VA	95 VA 50 Hz cos phi 0.75 (at 20 °C)
Hold-in power consumption in VA	8.3 VA 50 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	Power circuit: screw clamp terminals 1 1...4 mm² - cable stiffness: flexible with cable end Power 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: 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 Power circuit: screw clamp terminals 1 1...4 mm² - cable stiffness: solid Power circuit: screw clamp terminals 2 1...4 mm² - cable stiffness: solid Control circuit: screw clamp terminals 1 1...4 mm² - cable stiffness: solid Control circuit: screw clamp terminals 2 1...4 mm² - cable stiffness: solid
Tightening torque	Power circuit: 1.2 N.m Control circuit: 1.2 N.m
Auxiliary contact composition	Without
Mounting support	DIN rail Plate

Environment

Standards	IEC 60947-5-1 IEC 60947-4-1
Product certifications	CE EAC
IP degree of protection	IP20 conforming to IEC 60529
Protective treatment	TH conforming to IEC 60068-2-30
Permissible ambient air temperature around the device	-20...70 °C at Uc -60...80 °C storage -5...55 °C operation
Operating altitude	3000 m without derating
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 open (7 Gn for 11 ms) Shocks contactor closed (10 Gn for 11 ms)
Height	74 mm
Width	45 mm
Depth	80 mm
Net weight	0.34 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1

Offer Sustainability

Sustainable offer status	Green Premium product
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
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Recommended replacement(s)