

Product datasheet

Specifications



EasyPact TVS contactor 4P CTR 100A AC1(4NO)220V 50Hz WB

LC1E25004M5WBIN

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	50 A (at <40 °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	50 A (at 40 °C) for power circuit
Irms rated making capacity	250 A at 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 40 °C - 10 s for power circuit 120 A 40 °C - 60 s for power circuit 50 A 40 °C - 600 s for power circuit
Associated fuse rating	50 A gG at <= 690 V coordination type 1 for power circuit
Average impedance	2.5 mOhm - Ith 50 A 50 Hz for power circuit
Power dissipation per pole	3.2 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	0.35 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	8.5 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	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...10 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 1...6 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 1...4 mm² - cable stiffness: solid Control circuit: screw clamp terminals 2 1...4 mm² - cable stiffness: solid Power circuit: screw clamp terminals 1 1.5...10 mm² - cable stiffness: solid Power circuit: screw clamp terminals 2 1.5...10 mm² - cable stiffness: solid
Tightening torque	Control circuit: 1.2 N.m Power circuit: 1.5 N.m
Auxiliary contact composition	Without
Mounting support	DIN rail Plate

Environment

Standards	IEC 60947-4-1 IEC 60947-5-1
Product certifications	EAC
IP degree of protection	IP20 conforming to IEC 60529
Protective treatment	TH 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	84 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
Unit Type of Package 2	S02
Number of Units in Package 2	22
Package 2 Height	15 cm
Package 2 Width	30 cm

Package 2 Length	40 cm
Package 2 Weight	11.44 kg
Unit Type of Package 3	P06
Number of Units in Package 3	352
Package 3 Height	150 cm
Package 3 Width	60 cm
Package 3 Length	80 cm
Package 3 Weight	183.04 kg

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)