

# Product datasheet

Specifications



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

LC1E80004M5WB

To be discontinued on: 30 June 2023

To be 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	100 A (at <60 °C) at <= 415 V 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	100 A (at 60 °C) for power circuit
Irms rated making capacity	800 A at 440 V AC for power circuit conforming to IEC 60947-4-1
Rated breaking capacity	640 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	640 A 40 °C - 10 s for power circuit 320 A 40 °C - 60 s for power circuit 135 A 40 °C - 600 s for power circuit
Associated fuse rating	160 A gG at <= 690 V coordination type 1 for power circuit
Average impedance	0.8 mOhm - Ith 100 A 50 Hz for power circuit
Power dissipation per pole	9.7 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	3 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	200 VA 50 Hz cos phi 0.75 (at 20 °C)
Hold-in power consumption in VA	20 VA 50 Hz cos phi 0.3 (at 20 °C)
Heat dissipation	6...10 W for control circuit
Operating time	6...20 ms on opening 20...35 ms on closing
Maximum operating rate	1200 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 4...50 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 4...16 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 4...50 mm² - cable stiffness: solid Power circuit: screw clamp terminals 2 4...50 mm² - cable stiffness: solid
Tightening torque	Control circuit: 1.2 N.m Power circuit: 12 N.m
Auxiliary contact composition	Without
Mounting support	Plate DIN rail

## Environment

Standards	IEC 60947-5-1 IEC 60947-4-1
Product certifications	EAC CE
IP degree of protection	IP20 conforming to IEC 60529
Protective treatment	TH conforming to IEC 60068-2-30 test Db
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 (6 Gn for 11 ms) Shocks contactor closed (7 Gn for 11 ms)
Height	127 mm
Width	95 mm
Depth	120 mm
Net weight	1.6 kg

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	12.5 cm
Package 1 Width	8.5 cm
Package 1 Length	12.5 cm
Package 1 Weight	1.65 kg
Unit Type of Package 2	S03
Number of Units in Package 2	6

Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	10.42 kg
Unit Type of Package 3	P06
Number of Units in Package 3	48
Package 3 Height	72.5 cm
Package 3 Width	62 cm
Package 3 Length	81 cm
Package 3 Weight	125.04 kg

### Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS declaration</a> Product out of China RoHS scope. Substance declaration for your information
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

### Recommended replacement(s)

LC1E80004M5WB is replaced by:

1x



TeSys D contactor - 4P(4 NO) - AC-1 - <= 440 V 125 A - 220 V AC 50/60 Hz coil  
LC1D80004M7