

# Product data sheet

Specifications



## Contacteur, EasyPact TVS, 4P(4NO), AC-1, <=415V, 55A, 24V

LC1E32004B7IN

! Discontinued on: 29 December 2022

! Discontinued

### Main

Range	EasyPact
Product or component type	Contacteur
Device short name	LC1E
Contacteur 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	24 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

<b>Control circuit type</b>	AC at 50/60 Hz
<b>Control circuit voltage limits</b>	0.85...1.1 U <sub>c</sub> (55 °C):operational 50/60 Hz 0.3...0.6 U <sub>c</sub> (55 °C):drop-out 50/60 Hz
<b>Inrush power in VA</b>	95 VA 50 Hz cos phi 0.75 (at 20 °C) 95 VA 60 Hz cos phi 0.75 (at 20 °C)
<b>Hold-in power consumption in VA</b>	8.5 VA 50 Hz cos phi 0.3 (at 20 °C) 8.5 VA 60 Hz cos phi 0.3 (at 20 °C)
<b>Heat dissipation</b>	2...3 W for control circuit
<b>Operating time</b>	12...22 ms on closing 4...19 ms on opening
<b>Maximum operating rate</b>	1800 cyc/h 60 °C
<b>Connections - terminals</b>	Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 1...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 1.5...10 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 1.5...10 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 1...10 mm <sup>2</sup> - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 1...6 mm <sup>2</sup> - cable stiffness: flexible with cable end
<b>Tightening torque</b>	Control circuit: 1.2 N.m Power circuit: 2.1 N.m
<b>Insulation resistance</b>	> 10 MOhm for control circuit
<b>Mounting support</b>	DIN rail Plate

## Environment

<b>IP degree of protection</b>	IP2X conforming to IEC 60529
<b>Protective treatment</b>	TH (pollution degree 3) conforming to IEC 60068
<b>Permissible ambient air temperature around the device</b>	-20...70 °C at U <sub>c</sub> -60...80 °C storage -5...55 °C operation
<b>Operating altitude</b>	3000 m
<b>Fire resistance</b>	850 °C conforming to IEC 60695-2-1
<b>Mechanical robustness</b>	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)
<b>Height</b>	64 mm
<b>Width</b>	56 mm
<b>Depth</b>	93 mm
<b>Net weight</b>	0.52 kg

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	9.3 cm
<b>Package 1 Width</b>	5.6 cm
<b>Package 1 Length</b>	8.4 cm
<b>Package 1 Weight</b>	520 g
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	22
<b>Package 2 Height</b>	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	<a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS declaration</a>
RoHS exemption information	Yes
Environmental Disclosure	<a href="#">Product Environmental Profile</a>

## Recommended replacement(s)

LC1E32004B7IN is replaced by the following group of products:

1x		Contactor, TeSys Deca, 4P(4 NO), AC-1, <= 440V, 32A, 24V AC 50/60Hz coil, screw terminal LC1DT32B7
1x		Contactor, EasyPact TVS, 4P(4NO), AC-1, <=415V, 72A, 24V LC1E40004B7IN