

# Product datasheet

Specifications



## Easy TeSys contactor 4P CTR 20A AC1(4NO)415V 50Hz WB

LC1E38004N5WBIN

### Main

Range	Easy TeSys
Range of product	Easy TeSys Control
Product or component type	Contactors
Device short name	LC1E
contactor application	Resistive load
Utilisation category	AC-1
poles description	4P
[Ue] rated operational voltage	Power circuit: $\leq 690$ V AC 50/60 Hz
[Ie] rated operational current	60 A (at $<40$ °C) at $\leq 415$ V AC AC-1 for power circuit
[Uc] control circuit voltage	415 V AC 50 Hz

### Complementary

Pole contact composition	4 NO
Irms rated making capacity	380 A at 440 V AC for power circuit conforming to IEC 60947-4-1
Rated breaking capacity	304 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	60 A 40 °C - 600 s for power circuit 310 A 40 °C - 10 s for power circuit 150 A 40 °C - 60 s for power circuit
Associated fuse rating	63 A gG at $\leq 690$ V coordination type 1 for power circuit
Average impedance	2.5 mOhm - Ith 60 A 50 Hz for power circuit
Power dissipation per pole	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	350000 cycles AC-1
Control circuit type	AC at 50 Hz wide range
Control circuit voltage limits	0.3...0.6 U <sub>c</sub> (-5...55 °C):drop-out 50 Hz 0.7...1.25 U <sub>c</sub> (-5...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)

<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 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 Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: solid Control circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: solid Power circuit: screw clamp terminals 1 1.5...10 mm <sup>2</sup> - cable stiffness: solid Power circuit: screw clamp terminals 2 1.5...10 mm <sup>2</sup> - cable stiffness: solid
<b>Tightening torque</b>	Control circuit: 1.2 N.m Power circuit: 2.1 N.m
<b>Auxiliary contact composition</b>	Without
<b>mounting support</b>	DIN rail Plate

## Environment

<b>Standards</b>	IEC 60947-4-1 IEC 60947-5-1
<b>product certifications</b>	EAC
<b>IP degree of protection</b>	IP20 conforming to IEC 60529
<b>Protective treatment</b>	TH 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>	84 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
<b>Package 2 Width</b>	30 cm
<b>Package 2 Length</b>	40 cm
<b>Package 2 Weight</b>	11.44 kg
<b>Unit Type of Package 3</b>	P06
<b>Number of Units in Package 3</b>	352
<b>Package 3 Height</b>	150 cm
<b>Package 3 Width</b>	60 cm
<b>Package 3 Length</b>	80 cm
<b>Package 3 Weight</b>	183.04 kg

## Sustainability

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[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

## Well-being performance

Reach Free Of Svhc

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Toxic Heavy Metal Free

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Mercury Free

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Rohs Exemption Information Yes

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## Certifications & Standards

**Reach Regulation** [REACH Declaration](#)

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**Eu Rohs Directive** Compliant  
[EU RoHS Declaration](#)

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**China Rohs Regulation** [China RoHS declaration](#)

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**Environmental Disclosure** [Product Environmental Profile](#)

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**Circularity Profile** [End of Life Information](#)

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