

# Product datasheet

Specifications



High power contactor, TeSys Giga, 4 pole (4NO), AC-1  $\leq 440\text{V } 550\text{A}$ , advanced version, 200...500V wide band AC/DC coil

LC1G4004LSEA

## Main

Range	TeSys
Range of product	TeSys Giga
Product or component type	Contactor
Device short name	LC1G
contactor application	Power switching
Utilisation category	AC-3 AC-3e AC-1 AC-5a AC-5b AC-6a AC-6b DC-1 DC-3 DC-5
poles description	4P
[Ue] rated operational voltage	$\leq 1000\text{ V AC } 50/60\text{ Hz}$ $\leq 460\text{ V DC}$
[Ie] rated operational current	400 A (at $<60\text{ }^\circ\text{C}$ ) at $\leq 440\text{ V AC-3}$ 550 A (at $<40\text{ }^\circ\text{C}$ ) at $\leq 1000\text{ V AC-1}$
[Uc] control circuit voltage	200...500 V AC 50/60 Hz 200...500 V DC
Control circuit voltage limits	Operational: 0.8 Uc Min...1.1 Uc Max (at $<60\text{ }^\circ\text{C}$ ) Drop-out: 0.1 Uc Max...0.45 Uc Min (at $<60\text{ }^\circ\text{C}$ )

## Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	550 A (at $40\text{ }^\circ\text{C}$ )
Rated breaking capacity	3480 A at 440 V
[Icw] rated short-time withstand current	3.6 kA - 10 s 2.4 kA - 30 s 1.7 kA - 1 min 1.2 kA - 3 min 1.0 kA - 10 min
Associated fuse rating	500 A aM at $\leq 440\text{ V}$ for motor 315 A aM at $\leq 690\text{ V}$ for motor 630 A gG at $\leq 690\text{ V}$
Average impedance	0.0001 Ohm
[Ui] rated insulation voltage	1000 V

<b>Power dissipation per pole</b>	30 W AC-1 - lth 550 A 16 W AC-3 - lth 400 A
<b>Compatibility code</b>	LC1G
<b>Pole contact composition</b>	4 NO
<b>Auxiliary contact composition</b>	1 NO + 1 NC
<b>Irms rated making capacity</b>	5090 A at 440 V
<b>Coil technology</b>	Built-in bidirectional peak limiting
<b>Safety reliability level</b>	B10d = 400000 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 3000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1
<b>Mechanical durability</b>	8 Mcycles
<b>inrush power in VA (50/60 Hz, AC)</b>	535 VA
<b>inrush power in W (DC)</b>	300 W
<b>hold-in power consumption in VA (50/60 Hz, AC)</b>	15.4 VA
<b>hold-in power consumption in W (DC)</b>	8.6 W
<b>Operating time</b>	40...70 ms closing 15...50 ms opening
<b>Maximum operating rate</b>	600 cyc/h AC-3 600 cyc/h AC-3e 300 cyc/h AC-1
<b>Connections - terminals</b>	Power circuit: bar 2 - busbar cross section: 32 x 10 mm Power circuit: lugs-ring terminals 1 185 mm <sup>2</sup> Power circuit: bolted connection Control circuit: push-in 1 0.2...2.5 mm <sup>2</sup> - cable stiffness: solid stranded without cable end Control circuit: push-in 1 0.25...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end Control circuit: push-in 2 0.5...1.0 mm <sup>2</sup> with cable end Control circuit: push-in 0.75...2.5 mm <sup>2</sup> - cable stiffness: solid stranded without cable end Control circuit: push-in 0.75...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end
<b>Connection pitch</b>	45 mm
<b>mounting support</b>	Plate
<b>Standards</b>	EN/IEC 60947-4-1 EN/IEC 60947-5-1 UL 60947-4-1 CSA C22.2 No 60947-4-1 JIS C8201-4-1 JIS C8201-5-1 UL 60335-1 UL 60335-2-40:Annex JJ
<b>product certifications</b>	CB Scheme CCC cULus EAC CE UKCA EU-RO-MR by DNV-GL
<b>Tightening torque</b>	35 N.m
<b>Height</b>	290 mm
<b>Width</b>	185 mm
<b>Depth</b>	226 mm
<b>Net weight</b>	8.7 kg

## Environment

<b>IP degree of protection</b>	IP2X front face with shrouds conforming to IEC 60529 IP2X front face with shrouds conforming to VDE 0106
<b>Ambient air temperature for operation</b>	-25...60 °C
<b>Ambient air temperature for storage</b>	-60...80 °C
<b>Mechanical robustness</b>	Vibrations 5...300 Hz 2 gn contactor open Vibrations 5...300 Hz 4 gn contactor closed Shocks 10 gn 11 ms contactor open Shocks 15 gn 11 ms contactor closed
<b>Colour</b>	Dark grey
<b>Protective treatment</b>	TH
<b>Permissible ambient air temperature around the device</b>	-40...70 °C at U <sub>c</sub>

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	27.000 cm
<b>Package 1 Width</b>	32.000 cm
<b>Package 1 Length</b>	37.000 cm
<b>Package 1 Weight</b>	10.941 kg
<b>Unit Type of Package 2</b>	S06
<b>Number of Units in Package 2</b>	4
<b>Package 2 Height</b>	75.000 cm
<b>Package 2 Width</b>	60.000 cm
<b>Package 2 Length</b>	80.000 cm
<b>Package 2 Weight</b>	53.764 kg

## Sustainability

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



Transparency RoHS/REACH

## Well-being performance

Mercury Free

Rohs Exemption Information [Yes](#)

Pvc Free

Halogen Free Plastic Parts Product

## Certifications & Standards

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

**Eu Rohs Directive** Compliant with Exemptions

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

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

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

## Installation

### Installation Videos

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[TeSys Giga - How to install the auxiliary contact block](#)

[TeSys Giga - How to install and remove remote wear diagnosis module](#)

[TeSys Giga - How to install mechanical interlock kit](#)

[TeSys Giga - How to replace control module](#)

[TeSys Giga - How to replace switching modules](#)

[TeSys Giga - How to assemble change-over solution](#)

Offer Marketing Illustration

Product benefits / Features

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