

# Product datasheet

Specifications



High power contactor. TeSys Giga. 4 pole (4NO). AC-1  $\leq 440\text{V } 700\text{A}$ . standard version. 48...130V wide band AC/DC coil

LC1G5004EHEN

**Price: 85,492.04 ZAR**

## 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	500 A (at $<60\text{ }^\circ\text{C}$ ) at $\leq 440\text{ V AC-3}$ 700 A (at $<40\text{ }^\circ\text{C}$ ) at $\leq 1000\text{ V AC-1}$
[Uc] Control Circuit Voltage	48...130 V AC 50/60 Hz 48...130 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	700 A (at $40\text{ }^\circ\text{C}$ )
Rated Breaking Capacity	4600 A at 440 V
[Icw] Rated Short-Time Withstand Current	4.0 kA - 10 s 2.8 kA - 30 s 2.2 kA - 1 min 1.5 kA - 3 min 1.2 kA - 10 min
Associated Fuse Rating	500 A aM at $\leq 440\text{ V}$ for motor 400 A aM at $\leq 690\text{ V}$ for motor 800 A gG at $\leq 690\text{ V}$
Average Impedance	0.00008 Ohm
[Ui] Rated Insulation Voltage	1000 V

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

<b>Power Dissipation Per Pole</b>	40 W AC-1 - lth 700 A 20 W AC-3 - lth 500 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>Mechanical Durability</b>	8 Mcycles
<b>Inrush Power In Va (50/60 Hz, Ac)</b>	965 VA
<b>Inrush Power In W (Dc)</b>	760 W
<b>Hold-In Power Consumption In Va (50/60 Hz, Ac)</b>	17.6 VA
<b>Hold-In Power Consumption In W (Dc)</b>	7.8 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> 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
<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>	225 mm
<b>Width</b>	185 mm
<b>Depth</b>	226 mm
<b>Net Weight</b>	8.2 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 Uc

## Packing Units

<b>Unit Type Of Package 1</b>	PCE
<b>Number Of Units In Package 1</b>	1
<b>Package 1 Height</b>	27.0 cm
<b>Package 1 Width</b>	31.0 cm
<b>Package 1 Length</b>	32.0 cm
<b>Package 1 Weight</b>	9.689 kg
<b>Unit Type Of Package 2</b>	S06
<b>Number Of Units In Package 2</b>	4
<b>Package 2 Height</b>	75 cm
<b>Package 2 Width</b>	60 cm
<b>Package 2 Length</b>	80 cm
<b>Package 2 Weight</b>	48.756 kg

## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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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 install cable memory kit](#)

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

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

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