Specifications





High power contactor, TeSys Giga, 4 pole (4NO), AC-1 <=440V 700A, standard version, 48...130V wide band AC/DC coil

LC1G5004EHEN

### 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	<= 1000 V AC 50/60 Hz <= 460 V DC	
[le] rated operational current	500 A (at <60 °C) at <= 440 V AC-3 700 A (at <40 °C) at <= 1000 V AC-1	
[Uc] control circuit voltage	48130 V AC 50/60 Hz 48130 V DC	
Control circuit voltage limits	nits Operational: 0.8 Uc Min1.1 Uc Max (at <60 °C) Drop-out: 0.1 Uc Max0.45 Uc Min (at <60 °C)	

### Complementary

[Uimp] rated impulse withstand voltage	8 kV	
Overvoltage category	III	
[Ith] conventional free air thermal current	700 A (at 40 °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 <= 440 V for motor 400 A aM at <= 690 V for motor 800 A gG at <= 690 V	
Average impedance	0.00008 Ohm	
[Ui] rated insulation voltage	1000 V	

Power dissipation per pole	40 W AC-1 - Ith 700 A 20 W AC-3 - Ith 500 A	
Compatibility code	LC1G	
Pole contact composition	4 NO	
Auxiliary contact composition	4 NO 1 NO + 1 NC	
Irms rated making capacity	5090 A at 440 V	
Coil technology	Built-in bidirectional peak limiting	
Safety reliability level	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	
Mechanical durability	8 Mcycles	
inrush power in VA (50/60 Hz, AC)	965 VA	
inrush power in W (DC)	760 W	
hold-in power consumption in VA (50/60 Hz, AC)	17.6 VA	
hold-in power consumption in W (DC)	7.8 W	
Operating time	4070 ms closing 1550 ms opening	
Maximum operating rate	600 cyc/h AC-3 600 cyc/h AC-3e 300 cyc/h AC-1	
Connections - terminals	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 0.22.5 mm <sup>2</sup> - cable stiffness: solid stranded without cable end Control circuit: push-in 1 0.252.5 mm <sup>2</sup> - cable stiffness: flexible with cable end Control circuit: push-in 2 0.510 mm <sup>2</sup> with cable end Control circuit: push-in 0.752.5 mm <sup>2</sup> - cable stiffness: solid stranded without cable end Control circuit: push-in 0.752.5 mm <sup>2</sup> - cable stiffness: solid stranded without cable end Control circuit: push-in 0.752.5 mm <sup>2</sup> - cable stiffness: flexible with cable end	
Connection pitch	45 mm	
Mounting support	Plate	
Standards	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	
Product certifications	CB Scheme CCC cULus EAC CE UKCA EU-RO-MR by DNV-GL	
Tightening torque	35 N.m	
Height	225 mm	
Width	185 mm	
Depth	226 mm	
Net weight	8.2 kg	

# Environment

IP degree of protection	IP2X front face with shrouds conforming to IEC 60529 IP2X front face with shrouds conforming to VDE 0106	
Ambient air temperature for operation	-2560 °C	
Ambient air temperature for storage	-6080 °C	
Mechanical robustness	Vibrations 5300 Hz 2 gn contactor open Vibrations 5300 Hz 4 gn contactor closed Shocks 10 gn 11 ms contactor open Shocks 15 gn 11 ms contactor closed	
Colour	Dark grey	
Protective treatment	тн	
Permissible ambient air temperature around the device	-4070 °C at Uc	

# **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	27.000 cm
Package 1 Width	31.000 cm
Package 1 Length	32.000 cm
Package 1 Weight	9.689 kg
Unit Type of Package 2	S06
Number of Units in Package 2	4
Package 2 Height	75.000 cm
Package 2 Width	60.000 cm
Package 2 Length	80.000 cm
Package 2 Weight	19.756 ka

Package 2 Weight

48.756 kg

# Sustainability Screen Premium

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass 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.

Yes

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Guide to assess a product's sustainability >



Transparency RoHS/REACh

### Well-being performance



Rohs Exemption Information

### **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

## **Product datasheet**

### LC1G5004EHEN

### Installation

#### **Installation Videos**

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

#### Offer Marketing Illustration

#### **Product benefits / Features**



#### Offer Marketing Illustration

#### Product benefits / Features



### Offer Marketing Illustration

**Product benefits / Features** 



4 Nov 2024