

High power contactor, TeSys Giga, 4 pole (4NO), AC-1 <=440V 700A, advanced version, 200...500V wide band AC/DC coil

LC1G5004LSEA

### 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	200500 V AC 50/60 Hz 200500 V DC
Control circuit voltage limits	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
[lcw] 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	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)	535 VA	
inrush power in W (DC)	300 W	
hold-in power consumption in VA (50/60 Hz, AC)	15.4 VA	
hold-in power consumption in W (DC)	8.6 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 mm²  Power circuit: bolted connection  Control circuit: push-in 1 0.22.5 mm² - cable stiffness: solid stranded without cable end  Control circuit: push-in 1 0.252.5 mm² - cable stiffness: flexible with cable end  Control circuit: push-in 2 0.51.0 mm² with cable end  Control circuit: push-in 0.752.5 mm² - cable stiffness: solid stranded without cable end  Control circuit: push-in 0.752.5 mm² - 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	290 mm	
Width	185 mm	
Depth	226 mm	
Net weight	8.9 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	32.000 cm
Package 1 Width	28.000 cm
Package 1 Length	37.000 cm
Package 1 Weight	11.247 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	54.988 kg



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

#### Environmental Data explained >

How we assess product sustainability >

☑ Environmental footprint	
Total lifecycle Carbon footprint	3595
Environmental Disclosure	Product Environmental Profile

### **Use Better**

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Compliant with Exemptions
SCIP Number	6fbdad13-bb7c-47d4-a6d6-d82dd6f54349
REACh Regulation	REACh Declaration
California proposition 65	WARNING: This product can expose you to chemicals including: Styrene, which is known to the State of California to cause cancer, and Bisphenol A (BPA), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
Halogen-free status	Halogen free plastic parts product
PVC free	No

### **Use Again**

○ Repack and remanufacture	
End of life manual availability	End of Life Information
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

## **Product data sheet**

### LC1G5004LSEA

### 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 replace control module

TeSys Giga - How to replace switching modules

TeSys Giga - How to assemble change-over solution

### Offer Marketing Illustration

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



**Technical Illustration** 

### Assembly's dimensions

