Specifications





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

LC1G5004EHEA

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	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	1 NO + 1 NC
Motor power hp	150 hp at 200/208 V 60 Hz 200 hp at 230/240 V 60 Hz 400 hp at 460/480 V 60 Hz 450 hp at 575/600 V 60 Hz
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)	450 VA
inrush power in W (DC)	360 W
hold-in power consumption in VA (50/60 Hz, AC)	11.7 VA
hold-in power consumption in W (DC)	8.3 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 ² Power circuit: bolted connection Control circuit: push-in 1 0.22.5 mm ² - cable stiffness: solid stranded without cable end Control circuit: push-in 1 0.252.5 mm ² - cable stiffness: flexible with cable end Control circuit: push-in 2 0.51.0 mm ² with cable end Control circuit: push-in 0.752.5 mm ² - cable stiffness: solid stranded without cable end Control circuit: push-in 0.752.5 mm ² - cable stiffness: solid stranded without 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

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	30 cm
Package 1 Width	26.5 cm
Package 1 Length	37 cm
Package 1 Weight	10.0 kg
Unit Type of Package 2	S06
Number of Units in Package 2	4
Package 2 Height	73.5 cm
Package 2 Width	60.0 cm
Package 2 Length	80.0 cm
Package 2 Weight	51.3 kg

Sustainability Screen Premium

Green PremiumTM 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-CO₂ products.

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

Yes

Learn more about Green Premium >

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

LC1G5004EHEA

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



Offer Marketing Illustration

Product benefits / Features

