



High power contactor, TeSys Giga, 4 pole (4NO), AC-1 <=440V 550A, standard version, 48...130V wide band AC/DC coil

LC1G4004EHEN

EAN Code: 3606481922083

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	400 A (at <60 °C) at <= 440 V AC-3 550 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
[lth] conventional free air thermal current	550 A (at 40 °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 <= 440 V for motor 315 A aM at <= 690 V for motor 630 A gG at <= 690 V
Average impedance	0.0001 Ohm
[Ui] rated insulation voltage	1000 V

Power dissipation per pole	30 W AC-1 - Ith 550 A 16 W AC-3 - Ith 400 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)	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 mm² 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	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	31.000 cm
Package 1 Weight	9.386 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	47.544 kg

Contractual warranty

Warranty 18 months

Sustainability Green 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.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

Yes

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

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Product datasheet

LC1G4004EHEN

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

Product benefits / Features



Product benefits / Features

TeSys Giga

Contactors



Simplified maintenance

A patented modular design for the switching and control unit and cable memory enables better performance and faster spare parts replacement in an optimised footprint.



Ready for critical applications

Improved auxiliary contacts (17 V/1 mA, 10-8) enable better reliability in harsh environments and conform to high-density PLC input applications.



Resilience and uptime

Self diagnostic functions enable predictive maintenance with easier and safer commissioning.

Product benefits / Features



Product benefits / Features

