

Product datasheet

Specifications



High power contactor, TeSys Giga
800,4P(4NO),AC-1 $\leq 440V$
1050A,advanced version,
200-500V AC/DC wide band coil

LC1G8004LSEA

Main

Range	TeSys
Range of product	TeSys Giga
Product or component type	Contactors
Device short name	LC1G
Contactors 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	$\leq 1000 V AC 50/60 Hz$ $\leq 460 V DC$
[Ie] rated operational current	800 A (at $\leq 60^\circ C$) at $\leq 440 V AC-3$ 1050 A (at $\leq 40^\circ C$) at $\leq 1000 V AC-1$
[Uc] control circuit voltage	200...500 V AC 50/60 Hz 200...500 V DC
Control circuit voltage limits	Operational: 0.8 Uc Min...1.1 Uc Max (at $\leq 60^\circ C$) Drop-out: 0.1 Uc Max...0.45 Uc Min (at $\leq 60^\circ C$)

Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	1050 A (at $40^\circ C$)
Rated breaking capacity	5870 A at 440 V
[Icw] rated short-time withstand current	5.5 kA - 10 s 4.6 kA - 30 s 3.6 kA - 1 min 2.6 kA - 3 min 1.7 kA - 10 min
Associated fuse rating	800 A aM at $\leq 440 V$ for motor 630 A aM at $\leq 690 V$ for motor 1250 A gG at $\leq 690 V$
Average impedance	0.000065 Ohm
[Ui] rated insulation voltage	1000 V

Power dissipation per pole	70 W AC-1 - lth 1050 A 42 W AC-3 - lth 800 A
Compatibility code	LC1G
Pole contact composition	4 NO
Auxiliary contact composition	1 NO + 1 NC
Irms rated making capacity	7640 A at 440 V
Coil technology	Built-in bidirectional peak limiting
Safety reliability level	B10d = 100000 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 1800000 cycles contactor with mechanical load conforming to EN/ISO 13849-1
Mechanical durability	5 Mcycles
inrush power in VA (50/60 Hz, AC)	670 VA
inrush power in W (DC)	390 W
hold-in power consumption in VA (50/60 Hz, AC)	17.0 VA
hold-in power consumption in W (DC)	11.0 W
Operating time	40...70 ms closing 15...50 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: 52 x 20 mm Power circuit: lugs-ring terminals 1 185 mm ² Power circuit: bolted connection Control circuit: push-in 1 0.2...2.5 mm ² - cable stiffness: solid stranded without cable end Control circuit: push-in 1 0.25...2.5 mm ² - cable stiffness: flexible with cable end Control circuit: push-in 2 0.5...1.0 mm ² with cable end Control circuit: push-in 0.75...2.5 mm ² - cable stiffness: solid stranded without cable end Control circuit: push-in 0.75...2.5 mm ² - cable stiffness: flexible with cable end
Connection pitch	70 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	58 N.m
Height	388.5 mm
Width	281 mm
Depth	266 mm
Net weight	22 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	-25...60 °C
Ambient air temperature for storage	-60...80 °C
Mechanical robustness	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
Colour	Dark grey
Protective treatment	TH
Permissible ambient air temperature around the device	-40...70 °C at U _c

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	35 cm
Package 1 Width	37 cm
Package 1 Length	50 cm
Package 1 Weight	24.1 kg
Unit Type of Package 2	S06
Number of Units in Package 2	2
Package 2 Height	83 cm
Package 2 Width	60.0 cm
Package 2 Length	80.0 cm
Package 2 Weight	51.3 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-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](#)

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

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.

