

Product datasheet

Specifications



High power contactor, TeSys Giga
800,4P(4NO),AC-1 $\leq 440V$
1050A,advanced version,48-130V
AC/DC wide band coil

LC1G8004EHEA

Main

Range	TeSys
Range of product	TeSys Giga
Product or component type	Contacteur
Device short name	LC1G
Contacteur 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	48...130 V AC 50/60 Hz 48...130 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
Motor power hp	300 hp at 200/208 V 60 Hz 350 hp at 230/240 V 60 Hz 700 hp at 460/480 V 60 Hz 800 hp at 575/600 V 60 Hz
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)	560 VA
inrush power in W (DC)	440 W
hold-in power consumption in VA (50/60 Hz, AC)	12 VA
hold-in power consumption in W (DC)	8.8 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

