

# Product data sheet

Specifications



High power contactor, TeSys Giga, 4 pole (4NO), AC-1  $\leq 440\text{V}$  250A, advanced version, 48...130V wide band AC/DC coil

LC1G1154EHEA

## 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	$\leq 1000\text{ V AC } 50/60\text{ Hz}$ $\leq 460\text{ V DC}$
[Ie] rated operational current	115 A (at $<60\text{ }^\circ\text{C}$ ) at $\leq 440\text{ V AC-3}$ 250 A (at $<40\text{ }^\circ\text{C}$ ) at $\leq 1000\text{ V AC-1}$
[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 $<60\text{ }^\circ\text{C}$ ) Drop-out: 0.1 Uc Max...0.45 Uc Min (at $<60\text{ }^\circ\text{C}$ )

## Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	250 A (at $40\text{ }^\circ\text{C}$ )
Rated breaking capacity	1040 A at 440 V
[Icw] rated short-time withstand current	1.1 kA - 10 s 0.64 kA - 30 s 0.52 kA - 1 min 0.4 kA - 3 min 0.32 kA - 10 min
Associated fuse rating	125 A aM at $\leq 440\text{ V}$ for motor 125 A aM at $\leq 690\text{ V}$ for motor 315 A gG at $\leq 690\text{ V}$
Average impedance	0.00018 Ohm
[Ui] rated insulation voltage	1000 V

<b>Power dissipation per pole</b>	10 W AC-1 - lth 250 A 3 W AC-3 - lth 115 A
<b>Compatibility code</b>	LC1G
<b>Pole contact composition</b>	4 NO
<b>Auxiliary contact composition</b>	1 NO + 1 NC
<b>Motor power hp</b>	30 hp at 200/208 V 60 Hz 40 hp at 230/240 V 60 Hz 75 hp at 460/480 V 60 Hz 100 hp at 575/600 V 60 Hz
<b>Irms rated making capacity</b>	1560 A at 440 V
<b>Coil technology</b>	Built-in bidirectional peak limiting
<b>Safety reliability level</b>	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
<b>Mechanical durability</b>	8 Mcycles
<b>inrush power in VA (50/60 Hz, AC)</b>	260 VA
<b>inrush power in W (DC)</b>	190 W
<b>hold-in power consumption in VA (50/60 Hz, AC)</b>	8.9 VA
<b>hold-in power consumption in W (DC)</b>	5.0 W
<b>Operating time</b>	40...70 ms closing 15...50 ms opening
<b>Maximum operating rate</b>	600 cyc/h AC-3 600 cyc/h AC-3e 300 cyc/h AC-1
<b>Connections - terminals</b>	Power circuit: bar 2 - busbar cross section: 25 x 6 mm Power circuit: lugs-ring terminals 1 185 mm <sup>2</sup> Power circuit: bolted connection Control circuit: push-in 1 0.2...2.5 mm <sup>2</sup> - cable stiffness: solid stranded without cable end Control circuit: push-in 1 0.25...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end Control circuit: push-in 2 0.5...1.0 mm <sup>2</sup> with cable end Control circuit: push-in 0.75...2.5 mm <sup>2</sup> - cable stiffness: solid stranded without cable end Control circuit: push-in 0.75...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end
<b>Connection pitch</b>	35 mm
<b>mounting support</b>	Plate
<b>Standards</b>	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
<b>Product certifications</b>	CB Scheme CCC cULus EAC CE UKCA EU-RO-MR by DNV-GL
<b>Tightening torque</b>	18 N.m
<b>Height</b>	255 mm
<b>Width</b>	143 mm
<b>Depth</b>	193 mm

---

net weight	5.1 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 <sub>c</sub>
---	-------------------------------

## Packing Units

---

Unit Type of Package 1	PCE
------------------------	-----

---

Number of Units in Package 1	1
------------------------------	---

---

Package 1 Height	25.000 cm
------------------	-----------

---

Package 1 Width	26.500 cm
-----------------	-----------

---

Package 1 Length	38.500 cm
------------------	-----------

---

Package 1 Weight	6.362 kg
------------------	----------

---

Unit Type of Package 2	S06
------------------------	-----

---

Number of Units in Package 2	6
------------------------------	---

---

Package 2 Height	75.000 cm
------------------	-----------

---

Package 2 Width	60.000 cm
-----------------	-----------

---

Package 2 Length	80.000 cm
------------------	-----------

---

Package 2 Weight	50.000 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-CO<sub>2</sub> 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](#)

Halogen Free Plastic Parts Product

Pvc Free

## 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

---



**TeSys Giga Contactors**  
Range Accessories

Mechanical interlock, Cable memory kit, Terminal shroud, Auxiliary contact block, Remote Wear Diagnostic Module, Switching Module Kit, Control module, Phase separator, Change-over connection bar, Reverser connection bar

The image displays a collection of accessories for TeSys Giga Contactors. At the top left, a large contactor is shown against a green circular background. Below it, the title 'TeSys Giga Contactors Range Accessories' is presented. The accessories are arranged in three rows. The first row includes a mechanical interlock (two black plastic pieces), a cable memory kit (a black plastic component with terminals), and a terminal shroud (a clear plastic protective cover). The second row features an auxiliary contact block (a vertical green and black component), a remote wear diagnostic module (a black rectangular unit with a blue LED), a switching module kit (a white plastic component with multiple terminals), and a control module (a black and green component). The third row contains a phase separator (two black plastic plates), a change-over connection bar (a black metal bar with terminals), and a reverser connection bar (a black metal bar with terminals).