

Product data sheet

Specifications



Contactor, high power, TeSys Giga, advanced version, AC-1, \leq 440V, 305A, 4 pole/NO, 24-48VAC/DC coil

LC1G1854BEEA

Product availability: Non-Stock - Not normally stocked in distribution facility

Price*: 1,280.00 USD

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 V AC 50/60 Hz \leq 460 V DC
[Ie] rated operational current	185 A (at <140 °F (60 °C)) at \leq 440 V AC-3 305 A (at <104 °F (40 °C)) at \leq 1000 V AC-1
[Uc] control circuit voltage	24...48 V AC 50/60 Hz 24...48 V DC
Control circuit voltage limits	Operational: 0.8 Uc Min...1.1 Uc Max (at <140 °F (60 °C)) Drop-out: 0.1 Uc Max...0.45 Uc Min (at <140 °F (60 °C))

Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	250 A (at 104 °F (40 °C))
Rated breaking capacity	1610 A at 440 V
[Icw] rated short-time withstand current	1.5 kA - 10 s 0.92 kA - 30 s 0.74 kA - 1 min 0.5 kA - 3 min 0.4 kA - 10 min
Associated fuse rating	200 A aM at \leq 440 V for motor 160 A aM at \leq 690 V for motor 315 A gG at \leq 690 V

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Average impedance	0.00017 Ohm
[Ui] rated insulation voltage	1000 V
Power dissipation per pole	20 W AC-1 - lth 305 A 6 W AC-3 - lth 185 A
Compatibility code	LC1G
Pole contact composition	4 NO
Auxiliary contact composition	1 NO + 1 NC
Irms rated making capacity	1560 A at 440 V
Coil technology	Built-in bidirectional peak limiting
Safety reliability level	B10d = 400000 cycles contactor with nominal load EN/ISO 13849-1 B10d = 3000000 cycles contactor with mechanical load EN/ISO 13849-1
Mechanical durability	8 Mcycles
inrush power in VA (50/60 Hz, AC)	290 VA
inrush power in W (DC)	220 W
hold-in power consumption in VA (50/60 Hz, AC)	10 VA
hold-in power consumption in W (DC)	5.7 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: 25 x 6 mm Power circuit: lugs-ring terminals 1 0.3 in ² (185 mm ²) Power circuit: bolted connection Control circuit: push-in 1 0.0003...0.004 in ² (0.2...2.5 mm ²) - cable stiffness: solid stranded without cable end Control circuit: push-in 1 0.0004...0.004 in ² (0.25...2.5 mm ²) - cable stiffness: flexible with cable end Control circuit: push-in 2 0.0008...0.002 in ² (0.5...1.0 mm ²) with cable end Control circuit: push-in 0.001...0.004 in ² (0.75...2.5 mm ²) - cable stiffness: solid stranded without cable end Control circuit: push-in 0.001...0.004 in ² (0.75...2.5 mm ²) - cable stiffness: flexible with cable end
Connection pitch	1.4 in (35 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	159.3 lbf.in (18 N.m)
Height	10.04 in (255 mm)
Width	5.6 in (143 mm)
Depth	7.6 in (193 mm)

Net Weight	11.2 lb(US) (5.1 kg)
------------	----------------------

Environment

IP degree of protection	IP2X front face with shrouds IEC 60529 IP2X front face with shrouds VDE 0106
-------------------------	---

Ambient Air Temperature for Operation	-13...140 °F (-25...60 °C)
---------------------------------------	----------------------------

Ambient Air Temperature for Storage	-76...176 °F (-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
-----------------------	--

color	Dark grey
-------	-----------

Protective treatment	TH
----------------------	----

Permissible ambient air temperature around the device	-40...158 °F (-40...70 °C) at Uc
---	----------------------------------

Ordering and shipping details

Category	US10I1222329
----------	--------------

Discount Schedule	0I12
-------------------	------

GTIN	3606481922540
------	---------------

Returnability	No
---------------	----

Country of origin	CN
-------------------	----

Packing Units

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

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

Package 1 Height	9.843 in (25.000 cm)
------------------	----------------------

Package 1 Width	10.433 in (26.500 cm)
-----------------	-----------------------

Package 1 Length	14.961 in (38.000 cm)
------------------	-----------------------

Package 1 Weight	14.048 lb(US) (6.372 kg)
------------------	--------------------------

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

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

Package 2 Height	29.528 in (75.000 cm)
------------------	-----------------------

Package 2 Width	23.622 in (60.000 cm)
-----------------	-----------------------

Package 2 Length	31.496 in (80.000 cm)
------------------	-----------------------

Package 2 Weight	106.333 lb(US) (48.232 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](#)

California Proposition 65 WARNING: This product can expose you to chemicals including: Styrene, which is known to the State of California to cause cancer, and Bisphenol A (BPA), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Offer Marketing Illustration

Product benefits / Features



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 blocks), a cable memory kit (a black component with three terminals), and a terminal shroud (a clear plastic 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 component with three terminals), and a control module (a black component with a green top). The third row contains a phase separator (two black plates), a change-over connection bar (a black bar with two terminals), and a reverser connection bar (a black bar with four terminals).