

# Product data sheet

Specifications



## High power contactor, TeSys Giga, 3P(3NO), AC-3 $\leq 440V$ 800A, standard version, 600V AC/DC coil

LC1G800XXEN

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

### Main

Range	TeSys
Range of Product	TeSys Giga
Product or Component Type	Contactor
Device short name	LC1G
Contactor application	Power switching Motor control
Utilisation category	AC-1 AC-3 AC-3e AC-4 AC-5a AC-5b AC-6a AC-6b AC-8a AC-8b DC-1 DC-3 DC-5
Poles description	3P
[Ue] rated operational voltage	$\leq 1000$ V AC 50/60 Hz $\leq 460$ V DC
[Ie] rated operational current	1050 A (at $<104$ °F (40 °C)) at $\leq 1000$ V AC-1 800 A (at $<140$ °F (60 °C)) at $\leq 440$ V AC-3
[Uc] control circuit voltage	600 V AC 50/60 Hz 600 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	1050 A (at 104 °F (40 °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

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

<b>Associated fuse rating</b>	800 A aM at <= 440 V for motor 630 A aM at <= 690 V for motor 1250 A gG at <= 690 V 1200 A UL Type L at <= 600 V
<b>Average impedance</b>	0.000065 Ohm
<b>[Ui] rated insulation voltage</b>	1000 V
<b>Power dissipation per pole</b>	70 W AC-1 - lth 1050 A 42 W AC-3 - lth 800 A
<b>Compatibility code</b>	LC1G
<b>Pole contact composition</b>	3 NO
<b>Auxiliary contact composition</b>	1 NO + 1 NC
<b>Motor power kW</b>	200 kW at 230 V AC 50/60 Hz (AC-3e) 335 kW at 400 V AC 50/60 Hz (AC-3e) 355 kW at 415 V AC 50/60 Hz (AC-3e) 375 kW at 440 V AC 50/60 Hz (AC-3e) 425 kW at 500 V AC 50/60 Hz (AC-3e) 560 kW at 690 V AC 50/60 Hz (AC-3e) 450 kW at 1000 V AC 50/60 Hz (AC-3e) 250 kW at 230 V AC 50/60 Hz (AC-3) 450 kW at 400 V AC 50/60 Hz (AC-3) 450 kW at 415 V AC 50/60 Hz (AC-3) 450 kW at 440 V AC 50/60 Hz (AC-3) 500 kW at 500 V AC 50/60 Hz (AC-3) 560 kW at 690 V AC 50/60 Hz (AC-3) 450 kW at 1000 V AC 50/60 Hz (AC-3) 200 kW at 230 V AC 50/60 Hz (AC-4) 375 kW at 400 V AC 50/60 Hz (AC-4) 355 kW at 415 V AC 50/60 Hz (AC-4) 375 kW at 440 V AC 50/60 Hz (AC-4) 400 kW at 500 V AC 50/60 Hz (AC-4) 475 kW at 690 V AC 50/60 Hz (AC-4) 400 kW at 1000 V AC 50/60 Hz (AC-4)
<b>Maximum Horse Power Rating</b>	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
<b>Irms rated making capacity</b>	7640 A at 440 V
<b>Coil technology</b>	Built-in bidirectional peak limiting
<b>Safety reliability level</b>	B10d = 100000 cycles contactor with nominal load EN/ISO 13849-1 B10d = 1800000 cycles contactor with mechanical load EN/ISO 13849-1
<b>Mechanical durability</b>	5 Mcycles
<b>inrush power in VA (50/60 Hz, AC)</b>	700 VA
<b>inrush power in W (DC)</b>	400 W
<b>hold-in power consumption in VA (50/60 Hz, AC)</b>	17 VA
<b>hold-in power consumption in W (DC)</b>	11 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-1 150 cyc/h AC-4

<b>Connections - terminals</b>	Power circuit: bar 2 - busbar cross section: 52 x 20 mm Power circuit: lugs-ring terminals 1 0.3 in <sup>2</sup> (185 mm <sup>2</sup> ) Power circuit: bolted connection Control circuit: push-in 1 0.0003...0.004 in <sup>2</sup> (0.2...2.5 mm <sup>2</sup> ) - cable stiffness: solid stranded without cable end Control circuit: push-in 1 0.0004...0.004 in <sup>2</sup> (0.25...2.5 mm <sup>2</sup> ) - cable stiffness: flexible with cable end Control circuit: push-in 2 0.0008...0.002 in <sup>2</sup> (0.5...1.0 mm <sup>2</sup> ) with cable end Control circuit: push-in 0.001...0.004 in <sup>2</sup> (0.75...2.5 mm <sup>2</sup> ) - cable stiffness: solid stranded without cable end Control circuit: push-in 0.001...0.004 in <sup>2</sup> (0.75...2.5 mm <sup>2</sup> ) - cable stiffness: flexible with cable end
<b>Connection pitch</b>	2.8 in (70 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
<b>Product Certifications</b>	CB Scheme CCC cULus EAC CE UKCA EU-RO-MR by DNV-GL
<b>Tightening torque</b>	513.3 lbf.in (58 N.m)
<b>Height</b>	11.2 in (284 mm)
<b>Width</b>	8.3 in (211 mm)
<b>Depth</b>	10.5 in (266 mm)
<b>Net Weight</b>	31.3 lb(US) (14.2 kg)

## Environment

<b>IP degree of protection</b>	IP2X front face with shrouds IEC 60529 IP2X front face with shrouds VDE 0106
<b>Ambient Air Temperature for Operation</b>	-13...140 °F (-25...60 °C)
<b>Ambient Air Temperature for Storage</b>	-76...176 °F (-60...80 °C)
<b>Mechanical robustness</b>	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
<b>color</b>	Dark grey
<b>Protective treatment</b>	TH
<b>Permissible ambient air temperature around the device</b>	-40...158 °F (-40...70 °C) at U <sub>c</sub>

## Ordering and shipping details

<b>Category</b>	US10I1222329
<b>Discount Schedule</b>	0I12
<b>GTIN</b>	3606487386995
<b>Returnability</b>	No
<b>Country of origin</b>	CN

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Nbr. of units in pkg.</b>	1
<b>Package 1 Height</b>	13.6 in (34.5 cm)
<b>Package 1 Width</b>	11.8 in (30 cm)
<b>Package 1 Length</b>	15.4 in (39 cm)
<b>Package weight(Lbs)</b>	36.2 lb(US) (16.4 kg)

## **Contractual warranty**

<b>Warranty (in months)</b>	18
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## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



### Environmental footprint

Total lifecycle Carbon footprint	2 522 kg CO2 eq.
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Carbon footprint of the manufacturing phase [A1 to A3]	79 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	4 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	2 409 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	30 kg CO2 eq.

## Use Better



### Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
<a href="#">EU RoHS Directive</a>	Compliant with Exemptions
SCIP Number	6fbdad13-bb7c-47d4-a6d6-d82dd6f54349
REACH Regulation	<a href="#">REACH Declaration</a>
Halogen content performance	Halogen free plastic parts product
PVC free	No

## Use Longer



### Lifetime extension

Repair	No
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## Use Again



### Repack and remanufacture

Recyclability potential, in %	55
Circularity Profile	<a href="#">End of Life Information</a>
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.