Product data sheet

Specifications



Contactor, high power, TeSys Giga, advanced version, AC-3, <= 440V, 400A, 3 pole/NO, 48-130VAC/DC coil

LC1G400EHEA

Product availability: Stock - 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-8b AC-8a DC-1 DC-3 DC-5
Poles description	3P
[Ue] rated operational voltage	<= 1000 V AC 50/60 Hz <= 460 V DC
[Ie] rated operational current	550 A (at <104 °F (40 °C)) at <= 1000 V AC-1 400 A (at <140 °F (60 °C)) at <= 440 V AC-3
[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 <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	550 A (at 104 °F (40 °C))
Rated breaking capacity	3480 A at 440 V
[Icw] rated short-time withstand current	3.6 kA - 10 s 2.4 kA - 30 s 1.7 kA - 1 min 1.2 kA - 3 min 1.0 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.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Associated fuse rating	500 A aM at <= 440 V for motor 315 A aM at <= 690 V for motor 630 A gG at <= 690 V 600 A UL Type L at <= 600 V
Average impedance	0.0001 Ohm
[Ui] rated insulation voltage	1000 V
Power dissipation per pole	30 W AC-1 - Ith 550 A 16 W AC-3 - Ith 400 A
Compatibility code	LC1G
Pole contact composition	3 NO
Auxiliary contact composition	1 NO + 1 NC
Motor power kW	110 kW at 230 V AC 50/60 Hz (AC-3e) 200 kW at 400 V AC 50/60 Hz (AC-3e) 200 kW at 415 V AC 50/60 Hz (AC-3e) 250 kW at 440 V AC 50/60 Hz (AC-3e) 250 kW at 500 V AC 50/60 Hz (AC-3e) 315 kW at 690 V AC 50/60 Hz (AC-3e) 220 kW at 1000 V AC 50/60 Hz (AC-3e) 110 kW at 230 V AC 50/60 Hz (AC-3) 200 kW at 400 V AC 50/60 Hz (AC-3) 200 kW at 415 V AC 50/60 Hz (AC-3) 250 kW at 440 V AC 50/60 Hz (AC-3) 250 kW at 500 V AC 50/60 Hz (AC-3) 315 kW at 690 V AC 50/60 Hz (AC-3) 220 kW at 1000 V AC 50/60 Hz (AC-3) 110 kW at 230 V AC 50/60 Hz (AC-4) 200 kW at 400 V AC 50/60 Hz (AC-4) 200 kW at 415 V AC 50/60 Hz (AC-4) 220 kW at 440 V AC 50/60 Hz (AC-4) 250 kW at 500 V AC 50/60 Hz (AC-4) 315 kW at 690 V AC 50/60 Hz (AC-4) 220 kW at 1000 V AC 50/60 Hz (AC-4)
Maximum Horse Power Rating	125 hp at 200/208 V 60 Hz 150 hp at 230/240 V 60 Hz 300 hp at 460/480 V 60 Hz 400 hp at 575/600 V 60 Hz
Irms rated making capacity	5090 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)	450 VA
inrush power in W (DC)	360 W
hold-in power consumption in VA (50/60 Hz, AC)	11.7 VA
hold-in power consumption in W (DC)	8.3 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-1 150 cyc/h AC-4

Connections - terminals	Power circuit: bar 2 - busbar cross section: 32 x 10 mm Power circuit: lugs-ring terminals 1 0.3 in² (185 mm²) Power circuit: bolted connection Control circuit: push-in 1 0.0003…0.004 in² (0.2…2.5 mm²) - cable stiffness: solid stranded without cable end Control circuit: push-in 1 0.0004…0.004 in² (0.25…2.5 mm²) - cable stiffness: flexible with cable end Control circuit: push-in 2 0.0008…0.002 in² (0.5…1.0 mm²) with cable end Control circuit: push-in 0.001…0.004 in² (0.75…2.5 mm²) - cable stiffness: solid stranded without cable end Control circuit: push-in 0.001…0.004 in² (0.75…2.5 mm²) - cable stiffness: flexible with cable end
Connection pitch	1.8 in (45 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 IEC 60335-1:Clause 30.2 IEC 60335-2-40:Annex JJ 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	309.8 lbf.in (35 N.m)
Height	11.4 in (290 mm)
Width	5.5 in (140 mm)
Depth	8.9 in (226 mm)
Product Weight	17.2 lb(US) (7.8 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	3606481922380
Returnability	Yes

Country of origin	CZ

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	12.2 in (31 cm)
Package 1 Width	9.06 in (23 cm)
Package 1 Length	14.6 in (37 cm)
Package weight(Lbs)	19.718 lb(US) (8.944 kg)
Unit Type of Package 2	P06
Number of Units in Package 2	8
Package 2 Height	29.5 in (75 cm)
Package 2 Width	23.6 in (60 cm)
Package 2 Length	31.5 in (80 cm)
Package 2 Weight	176.485 lb(US) (80.052 kg)

Contractual warranty

Warranty (in months)	18

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	**1 404 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**76 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**14 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0.1 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**1 303 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**12 kg CO2 eq.**
Environmental Disclosure	**Product Environmental Profile**

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**Yes**
SCIP Number	**6fbdad13-bb7c-47d4-a6d6-d82dd6f54349**
EU RoHS Directive	**Compliant By Exemption**
REACh Regulation	**Reference contains Substances of Very High Concern above the threshold**
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**
Halogen content performance	**Halogen free plastic parts product**
PVC free	**No**

Use Longer

Lifetime extension

Repair	**No**

Use Again

Repack and remanufacture

Recyclability potential, in %	**55**
Circularity Profile	**End of Life Information**
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.

Offer Marketing Illustration

Product benefits / Features



Offer Marketing Illustration

Product benefits / Features



Offer Marketing Illustration

Product benefits / Features



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Product benefits / Features

