

Product data sheet

Specifications



Contactors, high power, TeSys Giga, 3P(3NO), AC-3, $\leq 440\text{V}$ 800A, standard version, 200-500V AC/DC wide band coil

LC1G800LSEN

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

Main

Range	TeSys
Range of Product	TeSys Giga
Product or Component Type	Contactors
Device short name	LC1G
Contactors 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	$\leq 1000\text{ V AC } 50/60\text{ Hz}$ $\leq 460\text{ V DC}$
[Ie] rated operational current	1050 A (at $<104\text{ }^\circ\text{F}$ ($40\text{ }^\circ\text{C}$)) at $\leq 1000\text{ V AC-1}$ 800 A (at $<140\text{ }^\circ\text{F}$ ($60\text{ }^\circ\text{C}$)) at $\leq 440\text{ V AC-3}$
[Uc] control circuit voltage	200...500 V AC 50/60 Hz 200...500 V DC
Control circuit voltage limits	Operational: $0.8\text{ Uc Min} \dots 1.1\text{ Uc Max}$ (at $<140\text{ }^\circ\text{F}$ ($60\text{ }^\circ\text{C}$)) Drop-out: $0.1\text{ Uc Max} \dots 0.45\text{ Uc Min}$ (at $<140\text{ }^\circ\text{F}$ ($60\text{ }^\circ\text{C}$))

Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	1050 A (at $104\text{ }^\circ\text{F}$ ($40\text{ }^\circ\text{C}$))
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.

Associated fuse rating	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
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	3 NO
Auxiliary contact composition	1 NO + 1 NC
Motor power kW	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)
Maximum Horse Power Rating	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 EN/ISO 13849-1 B10d = 1800000 cycles contactor with mechanical load EN/ISO 13849-1
Mechanical durability	5 Mcycles
inrush power in VA (50/60 Hz, AC)	670 VA
inrush power in W (DC)	390 W
hold-in power consumption in VA (50/60 Hz, AC)	17 VA
hold-in power consumption in W (DC)	11 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	<p>Power circuit: bar 2 - busbar cross section: 52 x 20 mm</p> <p>Power circuit: lugs-ring terminals 1 0.3 in² (185 mm²)</p> <p>Power circuit: bolted connection</p> <p>Control circuit: push-in 1 0.0003...0.004 in² (0.2...2.5 mm²) - cable stiffness: solid stranded without cable end</p> <p>Control circuit: push-in 1 0.0004...0.004 in² (0.25...2.5 mm²) - cable stiffness: flexible with cable end</p> <p>Control circuit: push-in 2 0.0008...0.002 in² (0.5...1.0 mm²) with cable end</p> <p>Control circuit: push-in 0.001...0.004 in² (0.75...2.5 mm²) - cable stiffness: solid stranded without cable end</p> <p>Control circuit: push-in 0.001...0.004 in² (0.75...2.5 mm²) - cable stiffness: flexible with cable end</p>
Connection pitch	2.8 in (70 mm)
Mounting Support	Plate
Standards	<p>EN/IEC 60947-4-1</p> <p>EN/IEC 60947-5-1</p> <p>UL 60947-4-1</p> <p>CSA C22.2 No 60947-4-1</p> <p>JIS C8201-4-1</p> <p>JIS C8201-5-1</p> <p>IEC 60335-1:Clause 30.2</p> <p>IEC 60335-2-40:Annex JJ</p> <p>UL 60335-1</p> <p>UL 60335-2-40:Annex JJ</p>
Product Certifications	<p>CB Scheme</p> <p>CCC</p> <p>cULus</p> <p>EAC</p> <p>CE</p> <p>UKCA</p> <p>EU-RO-MR by DNV-GL</p>
Tightening torque	513.3 lbf.in (58 N.m)
Height	11.2 in (284 mm)
Width	8.3 in (211 mm)
Depth	10.5 in (266 mm)
Net Weight	31.3 lb(US) (14.2 kg)

Environment

IP degree of protection	<p>IP2X front face with shrouds IEC 60529</p> <p>IP2X front face with shrouds VDE 0106</p>
Ambient Air Temperature for Operation	-13...140 °F (-25...60 °C)
Ambient Air Temperature for Storage	-76...176 °F (-60...80 °C)
Mechanical robustness	<p>Vibrations 5...300 Hz 2 gn contactor open</p> <p>Vibrations 5...300 Hz 4 gn contactor closed</p> <p>Shocks 10 gn 11 ms contactor open</p> <p>Shocks 15 gn 11 ms contactor closed</p>
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	3606486391983
Returnability	No

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

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	13.6 in (34.5 cm)
Package 1 Width	11.8 in (30 cm)
Package 1 Length	15.4 in (39 cm)
Package weight(Lbs)	36.2 lb(US) (16.4 kg)
Unit Type of Package 2	S06
Number of Units in Package 2	2
Package 2 Height	32.7 in (83.0 cm)
Package 2 Width	23.6 in (60 cm)
Package 2 Length	31.5 in (80 cm)
Package 2 Weight	165.8 lb(US) (75.2 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	2 993 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Carbon footprint of the manufacturing phase [A1 to A3]	88 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	5 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	2 868 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	34 kg CO2 eq.

Use Better



Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Compliant with Exemptions
SCIP Number	6fbdad13-bb7c-47d4-a6d6-d82dd6f54349
REACH Regulation	REACH Declaration
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.

