

Product data sheet

Specifications



High power contactor, TeSys Giga, 3P(3NO), AC-3 $\leq 440V$ 225A, standard version, 600V AC/DC coil

LC1G225XXEN

Product availability: Stock - 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	$\leq 1000 V AC 50/60 Hz$ $\leq 460 V DC$
[Ie] rated operational current	330 A (at $<104^{\circ}F$ ($40^{\circ}C$)) at $\leq 1000 V AC-1$ 225 A (at $<140^{\circ}F$ ($60^{\circ}C$)) at $\leq 440 V AC-3$
[Uc] control circuit voltage	600 V AC 50/60 Hz 600 V DC
Control circuit voltage limits	Operational: $0.8 U_c Min \dots 1.1 U_c Max$ (at $<140^{\circ}F$ ($60^{\circ}C$)) Drop-out: $0.1 U_c Max \dots 0.45 U_c Min$ (at $<140^{\circ}F$ ($60^{\circ}C$))

Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	330 A (at $104^{\circ}F$ ($40^{\circ}C$))
Rated breaking capacity	2050 A at 440 V
[Icw] rated short-time withstand current	1.8 kA - 10 s 1.0 kA - 30 s 0.85 kA - 1 min 0.56 kA - 3 min 0.44 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	250 A aM at <= 440 V for motor 200 A aM at <= 690 V for motor 400 A gG at <= 690 V 400 A UL Type J at <= 600 V
Average impedance	0.00015 Ohm
[Ui] rated insulation voltage	1000 V
Power dissipation per pole	20 W AC-1 - lth 330 A 8 W AC-3 - lth 225 A
Compatibility code	LC1G
Pole contact composition	3 NO
Auxiliary contact composition	1 NO + 1 NC
Motor power kW	55 kW at 230 V AC 50/60 Hz (AC-3e) 110 kW at 400 V AC 50/60 Hz (AC-3e) 110 kW at 415 V AC 50/60 Hz (AC-3e) 132 kW at 440 V AC 50/60 Hz (AC-3e) 132 kW at 500 V AC 50/60 Hz (AC-3e) 160 kW at 690 V AC 50/60 Hz (AC-3e) 132 kW at 1000 V AC 50/60 Hz (AC-3e) 55 kW at 230 V AC 50/60 Hz (AC-3) 110 kW at 400 V AC 50/60 Hz (AC-3) 110 kW at 415 V AC 50/60 Hz (AC-3) 132 kW at 440 V AC 50/60 Hz (AC-3) 132 kW at 500 V AC 50/60 Hz (AC-3) 160 kW at 690 V AC 50/60 Hz (AC-3) 132 kW at 1000 V AC 50/60 Hz (AC-3) 55 kW at 230 V AC 50/60 Hz (AC-4) 110 kW at 400 V AC 50/60 Hz (AC-4) 110 kW at 415 V AC 50/60 Hz (AC-4) 129 kW at 440 V AC 50/60 Hz (AC-4) 132 kW at 500 V AC 50/60 Hz (AC-4) 132 kW at 690 V AC 50/60 Hz (AC-4) 110 kW at 1000 V AC 50/60 Hz (AC-4)
Maximum Horse Power Rating	60 hp at 200/208 V 60 Hz 75 hp at 230/240 V 60 Hz 150 hp at 460/480 V 60 Hz 150 hp at 575/600 V 60 Hz
Irms rated making capacity	2720 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)	350 VA
inrush power in W (DC)	230 W
hold-in power consumption in VA (50/60 Hz, AC)	15 VA
hold-in power consumption in W (DC)	8 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: 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
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	7.6 in (193 mm)
Width	4.3 in (108 mm)
Depth	7.6 in (193 mm)
Net Weight	7.7 lb(US) (3.5 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 U _c

Ordering and shipping details

Category	US10I1222329
Discount Schedule	0I12
GTIN	3606487386933
Returnability	Yes
Country of origin	CN

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	10.2 in (26 cm)
Package 1 Width	6.9 in (17.5 cm)
Package 1 Length	12.8 in (32.5 cm)
Package weight(Lbs)	10.6 lb(US) (4.8 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	497 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Carbon footprint of the manufacturing phase [A1 to A3]	27 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	459 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	10 kg CO2 eq.

Use Better



Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant with Exemptions
SCIP Number	6fbdad13-bb7c-47d4-a6d6-d82dd6f54349
REACH Regulation	REACH Declaration
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.