

Product data sheet

Specifications



High power contactor, TeSys Giga,
3 pole (3NO), AC-3 $\leq 440\text{V}$ 225A,
advanced version, 48...130V wide
band AC/DC coil

LC1G225EHEA

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-8b AC-8a DC-1 DC-3 DC-5
Poles description	3P
[Ie] rated operational current	330 A (at $\leq 40\text{ }^{\circ}\text{C}$) at $\leq 1000\text{ V AC-1}$ 225 A (at $\leq 60\text{ }^{\circ}\text{C}$) at $\leq 440\text{ V AC-3}$
[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 $\leq 60\text{ }^{\circ}\text{C}$) Drop-out: 0.1 Uc Max...0.45 Uc Min (at $\leq 60\text{ }^{\circ}\text{C}$)
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Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	330 A (at $40\text{ }^{\circ}\text{C}$)
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
Associated fuse rating	250 A aM at $\leq 440\text{ V}$ for motor 200 A aM at $\leq 690\text{ V}$ for motor 400 A gG at $\leq 690\text{ V}$
Average impedance	0.00015 Ohm
[Ui] rated insulation voltage	1000 V

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

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)
Motor power hp	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 conforming to EN/ISO 13849-1 B10d = 3000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1
Mechanical durability	8 Mcycles
inrush power in VA (50/60 Hz, AC)	260 VA
inrush power in W (DC)	190 W
hold-in power consumption in VA (50/60 Hz, AC)	8.9 VA
hold-in power consumption in W (DC)	5.0 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 1 185 mm ² Power circuit: bolted connection Control circuit: push-in 1 0.2...2.5 mm ² - cable stiffness: solid stranded without cable end Control circuit: push-in 1 0.25...2.5 mm ² - cable stiffness: flexible with cable end Control circuit: push-in 2 0.5...1.0 mm ² with cable end Control circuit: push-in 0.75...2.5 mm ² - cable stiffness: solid stranded without cable end Control circuit: push-in 0.75...2.5 mm ² - cable stiffness: flexible with cable end
Connection pitch	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 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	18 N.m
Height	255 mm
Width	108 mm
Depth	193 mm
Net weight	4.1 kg

Environment

IP degree of protection	IP2X front face with shrouds conforming to IEC 60529 IP2X front face with shrouds conforming to VDE 0106
Ambient air temperature for operation	-25...60 °C
Ambient air temperature for storage	-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
Colour	Dark grey
Protective treatment	TH
Permissible ambient air temperature around the device	-40...70 °C at Uc

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	26.000 cm
Package 1 Width	17.500 cm
Package 1 Length	32.000 cm
Package 1 Weight	5.054 kg
Unit Type of Package 2	S06
Number of Units in Package 2	12
Package 2 Height	75.000 cm
Package 2 Width	60.000 cm
Package 2 Length	80.000 cm
Package 2 Weight	74.648 kg

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	882
Environmental Disclosure	Product Environmental Profile

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-free status	Halogen free plastic parts product
PVC free	No

Use Again

 Repack and remanufacture	
End of life manual availability	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

Installation

Installation Videos

[TeSys Giga - How to install the auxiliary contact block](#)

[TeSys Giga - How to install and remove remote wear diagnosis module](#)

[TeSys Giga - How to install mechanical interlock kit](#)

[TeSys Giga - How to replace control module](#)

[TeSys Giga - How to replace switching modules](#)

[TeSys Giga - How to assemble reverser solution](#)

[TeSys Giga - How to assemble change-over solution](#)

[TeSys Giga - How to assemble star-delta starter solution New](#)

Technical Illustration

Assembly's dimensions

