Product datasheet

Specifications

Green Premium™

High power contactor, TeSys Giga, 3 pole (3NO), AC-3 <=440V 150A, standard version, 100…250V wide band AC/DC coil

LC1G150KUEN

Main

Range	TeSys
Range Of Produc	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	<= 1000 V AC 50/60 Hz <= 460 V DC
[Ie] Rated Operational Current	275 A (at <40 °C) at <= 1000 V AC-1 150 A (at <60 °C) at <= 440 V AC-3
[Uc] Control Circuit Voltage	100...250 V AC 50/60 Hz 100...250 V DC
Control Circuit Voltage Limits	Operational: 0.8 Uc Min...1.1 Uc Max (at <60 °C) Drop-out: 0.1 Uc Max...0.45 Uc Min (at <60 °C)

Complementary

[Uimp] Rated Impulse Withstand Voltage	8 kV
Overvoltage Category	III
[Ith] Conventional Free Air Thermal Current	275 A (at 40 °C)
Rated Breaking Capacity	1280 A at 440 V
[Icw] Rated Short-Time Withstand Current	1.2 kA - 10 s 0.7 kA - 30 s 0.6 kA - 1 min 0.45 kA - 3 min 0.35 kA - 10 min
Associated Fuse Rating	160 A aM at <= 440 V for motor 160 A aM at <= 690 V for motor 315 A gG at <= 690 V

Average Impedance	0.00018 Ohm
[Ui] Rated Insulation Voltage	1000 V
Power Dissipation Per Pole	10 W AC-1 - Ith 275 A 5 W AC-3 - Ith 150 A
Compatibility Code	LC1G
Pole Contact Composition	3 NO
Auxiliary Contact Composition	1 NO + 1 NC
Motor Power Kw	37 kW at 230 V AC 50/60 Hz (AC-3e) 75 kW at 400 V AC 50/60 Hz (AC-3e) 75 kW at 415 V AC 50/60 Hz (AC-3e) 90 kW at 440 V AC 50/60 Hz (AC-3e) 90 kW at 500 V AC 50/60 Hz (AC-3e) 90 kW at 690 V AC 50/60 Hz (AC-3e) 75 kW at 1000 V AC 50/60 Hz (AC-3e) 37 kW at 230 V AC 50/60 Hz (AC-3) 75 kW at 400 V AC 50/60 Hz (AC-3) 75 kW at 415 V AC 50/60 Hz (AC-3) 90 kW at 440 V AC 50/60 Hz (AC-3) 90 kW at 500 V AC 50/60 Hz (AC-3) 90 kW at 690 V AC 50/60 Hz (AC-3) 75 kW at 1000 V AC 50/60 Hz (AC-3) 37 kW at 230 V AC 50/60 Hz (AC-4) 75 kW at 400 V AC 50/60 Hz (AC-4) 75 kW at 415 V AC 50/60 Hz (AC-4) 80 kW at 440 V AC 50/60 Hz (AC-4) 90 kW at 500 V AC 50/60 Hz (AC-4) 90 kW at 690 V AC 50/60 Hz (AC-4) 75 kW at 1000 V AC 50/60 Hz (AC-4)
Motor Power Hp	40 hp at 200/208 V 60 Hz 50 hp at 230/240 V 60 Hz 100 hp at 460/480 V 60 Hz 125 hp at 575/600 V 60 Hz
Irms Rated Making Capacity	1890 A at 440 V
Coil Technology	Built-in bidirectional peak limiting
Mechanical Durability	8 Mcycles
Inrush Power In Va (50/60 Hz, Ac)	540 VA
Inrush Power In W (Dc)	380 W
Hold-In Power Consumption In Va (50/60 Hz, Ac)	12.4 VA
Hold-In Power Consumption In W (Dc)	7.8 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 1 185 mm² Power circuit: bolted connection Control circuit: push-in 1 0.2…2.5 mm² - cable stiffness: solid stranded without cable end Control circuit: push-in 1 0.25…2.5 mm² - cable stiffness: flexible with cable end Control circuit: push-in 2 0.5…1.0 mm² with cable end Control circuit: push-in 0.75…2.5 mm² - cable stiffness: solid stranded without cable end Control circuit: push-in 0.75…2.5 mm² - 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
Product Certifications	CB Scheme CCC cULus EAC CE UKCA EU-RO-MR by DNV-GL
Tightening Torque	18 N.m
Height	193 mm
Width	108 mm
Depth	193 mm
Net Weight	3.6 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	24.5 cm
Package 1 Width	23.5 cm
Package 1 Length	38.5 cm
Package 1 Weight	4.768 kg
Unit Type Of Package 2	S06
Number Of Units In Package 2	6
Package 2 Height	75 cm
Package 2 Width	60 cm
Package 2 Length	80 cm
Package 2 Weight	38.62 kg

Sustainability

Green Premium^{TM} label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency

RoHS/REACh

Well-being performance

Mercury Free	
Rohs Exemption Information	Yes
Pvc Free	
Halogen Free Plastic Parts Product	

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

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 install cable memory kit
TeSys Giga - How to directly mount LR9G overload relay
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