Specifications





High power contactor, TeSys Giga, 3 pole (3NO), AC-3 <=440V 185A, standard version, 100...250V wide band AC/DC coil

LC1G185KUEN

## 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-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
[le] Rated Operational Current	305 A (at <40 °C) at <= 1000 V AC-1 185 A (at <60 °C) at <= 440 V AC-3
[Uc] Control Circuit Voltage	100250 V AC 50/60 Hz 100250 V DC
Control Circuit Voltage Limits	Operational: 0.8 Uc Min1.1 Uc Max (at <60 °C) Drop-out: 0.1 Uc Max0.45 Uc Min (at <60 °C)

# Complementary

[Uimp] Rated Impulse Withstand Voltage	8 kV
Overvoltage Category	III
[Ith] Conventional Free Air Thermal Current	305 A (at 40 °C)
Rated Breaking Capacity	1610 A at 440 V
[Icw] Rated Short-Time Withstand Current	1.5 kA - 10 s 0.92 kA - 30 s 0.74 kA - 1 min 0.5 kA - 3 min 0.4 kA - 10 min
Associated Fuse Rating	200 A aM at <= 440 V for motor



315 A gG at <= 690 V

Average Impedance	0.00017 Ohm
[Ui] Rated Insulation Voltage	1000 V
Power Dissipation Per Pole	20 W AC-1 - Ith 305 A 6 W AC-3 - Ith 185 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) 90 kW at 400 V AC 50/60 Hz (AC-3e) 90 kW at 415 V AC 50/60 Hz (AC-3e) 110 kW at 440 V AC 50/60 Hz (AC-3e) 110 kW at 500 V AC 50/60 Hz (AC-3e) 110 kW at 690 V AC 50/60 Hz (AC-3e) 15 kW at 1000 V AC 50/60 Hz (AC-3e) 55 kW at 230 V AC 50/60 Hz (AC-3) 90 kW at 400 V AC 50/60 Hz (AC-3) 90 kW at 415 V AC 50/60 Hz (AC-3) 110 kW at 440 V AC 50/60 Hz (AC-3) 110 kW at 500 V AC 50/60 Hz (AC-3) 110 kW at 690 V AC 50/60 Hz (AC-3) 55 kW at 230 V AC 50/60 Hz (AC-3) 110 kW at 690 V AC 50/60 Hz (AC-3) 110 kW at 690 V AC 50/60 Hz (AC-4) 90 kW at 440 V AC 50/60 Hz (AC-4) 110 kW at 440 V AC 50/60 Hz (AC-4) 110 kW at 690 V AC 50/60 Hz (AC-4) 110 kW at 690 V AC 50/60 Hz (AC-4) 110 kW at 690 V AC 50/60 Hz (AC-4) 15 kW at 1000 V AC 50/60 Hz (AC-4)
Motor Power Hp	50 hp at 200/208 V 60 Hz 60 hp at 230/240 V 60 Hz 125 hp at 460/480 V 60 Hz 150 hp at 575/600 V 60 Hz
Irms Rated Making Capacity	2310 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	4070 ms closing 1550 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 0.22.5 mm² - cable stiffness: solid stranded without cable end  Control circuit: push-in 1 0.252.5 mm² - cable stiffness: flexible with cable end  Control circuit: push-in 2 0.51.0 mm² with cable end  Control circuit: push-in 0.752.5 mm² - cable stiffness: solid stranded without cable end  Control circuit: push-in 0.752.5 mm² - cable stiffness: flexible with cable end
Connection Pitch	35 mm
Mounting Support	Plate

Chandanda	
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
<b>Product Certifications</b>	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
Troc troight	3.0 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	-2560 °C
Ambient Air Temperature For Storage	-6080 °C
Mechanical Robustness	Vibrations 5300 Hz 2 gn contactor open
	Vibrations 5300 Hz 4 gn contactor closed
	Shocks 10 gn 11 ms contactor open
	Shocks 15 gn 11 ms contactor closed
Colour	Dark grey
Colour Protective Treatment	Dark grey TH
Protective Treatment Permissible Ambient Air	• •
Protective Treatment	тн
Protective Treatment  Permissible Ambient Air Temperature Around The Device	тн
Protective Treatment Permissible Ambient Air	тн
Protective Treatment  Permissible Ambient Air Temperature Around The Device  Packing Units  Unit Type Of Package 1	TH -4070 °C at Uc  PCE
Protective Treatment  Permissible Ambient Air Temperature Around The Device  Packing Units  Unit Type Of Package 1  Number Of Units In Package 1	TH -4070 °C at Uc  PCE 1
Protective Treatment  Permissible Ambient Air Temperature Around The Device  Packing Units  Unit Type Of Package 1	TH -4070 °C at Uc  PCE 1 23.000 cm
Protective Treatment  Permissible Ambient Air Temperature Around The Device  Packing Units Unit Type Of Package 1  Number Of Units In Package 1  Package 1 Height  Package 1 Width	TH -4070 °C at Uc  PCE 1 23.000 cm 24.500 cm
Protective Treatment  Permissible Ambient Air Temperature Around The Device  Packing Units  Unit Type Of Package 1  Number Of Units In Package 1  Package 1 Height  Package 1 Width  Package 1 Length	TH -4070 °C at Uc  PCE 1 23.000 cm 24.500 cm 38.500 cm
Protective Treatment  Permissible Ambient Air Temperature Around The Device  Packing Units  Unit Type Of Package 1  Number Of Units In Package 1  Package 1 Height  Package 1 Width  Package 1 Length  Package 1 Weight	TH -4070 °C at Uc  PCE 1 23.000 cm 24.500 cm 38.500 cm 4.766 kg
Protective Treatment  Permissible Ambient Air Temperature Around The Device  Packing Units  Unit Type Of Package 1  Number Of Units In Package 1  Package 1 Height  Package 1 Width  Package 1 Length  Package 1 Weight  Unit Type Of Package 2	TH -4070 °C at Uc  PCE 1 23.000 cm 24.500 cm 38.500 cm 4.766 kg P06
Protective Treatment  Permissible Ambient Air Temperature Around The Device  Packing Units  Unit Type Of Package 1  Number Of Units In Package 1  Package 1 Height  Package 1 Width  Package 1 Length  Package 1 Weight	TH -4070 °C at Uc  PCE 1 23.000 cm 24.500 cm 38.500 cm 4.766 kg
Protective Treatment  Permissible Ambient Air Temperature Around The Device  Packing Units  Unit Type Of Package 1  Number Of Units In Package 1  Package 1 Height  Package 1 Width  Package 1 Length  Package 1 Weight  Unit Type Of Package 2	TH -4070 °C at Uc  PCE 1 23.000 cm 24.500 cm 38.500 cm 4.766 kg P06
Protective Treatment  Permissible Ambient Air Temperature Around The Device  Packing Units  Unit Type Of Package 1  Number Of Units In Package 1  Package 1 Height  Package 1 Width  Package 1 Length  Package 1 Weight  Unit Type Of Package 2  Number Of Units In Package 2	TH -4070 °C at Uc  PCE 1 23.000 cm 24.500 cm 38.500 cm 4.766 kg P06 6

41.034 kg

Package 2 Weight

# Sustainability Green Premium\*

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> 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

<b>⊘</b>	Mercury Free
<b>⊘</b>	Rohs Exemption Information Yes
<b>⊘</b>	Pvc Free
<b>⊘</b>	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

#### **Product datasheet**

#### LC1G185KUEN

#### 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