



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

LC1G185KUEN

EAN Code: 3606481921949

## Main

Range	TeSys
Range of product	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 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)

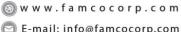
## Complementary

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[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
[lcw] 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

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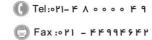
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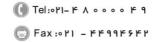




Associated fuse rating	200 A aM at <= 440 V for motor 160 A aM at <= 690 V for motor
	315 A gG at <= 690 V
	300 A UL Type J at <= 600 V
Average impedance	0.00017 Ohm
[Ui] rated insulation voltage	1000 V
Power dissipation per pole	20 W AC-1 - Ith 305 A
	6 W AC-3 - Ith 185 A
Compatibility code	LC1G
Pole 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)
	75 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)
	75 kW at 1000 V AC 50/60 Hz (AC-3)
	55 kW at 230 V AC 50/60 Hz (AC-4)
	90 kW at 400 V AC 50/60 Hz (AC-4)
	90 kW at 415 V AC 50/60 Hz (AC-4)
	100 kW at 440 V AC 50/60 Hz (AC-4)
	110 kW at 500 V AC 50/60 Hz (AC-4)
	110 kW at 690 V AC 50/60 Hz (AC-4) 75 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
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	13849-1 8 Mcycles
Mechanical durability inrush power in VA (50/60 Hz, AC)	
	8 Mcycles
inrush power in VA (50/60 Hz, AC)	8 Mcycles 540 VA
inrush power in VA (50/60 Hz, AC) inrush power in W (DC) hold-in power consumption in VA	8 Mcycles 540 VA 380 W
inrush power in VA (50/60 Hz, AC) inrush power in W (DC) hold-in power consumption in VA (50/60 Hz, AC) hold-in power consumption in W	8 Mcycles 540 VA 380 W 12.4 VA 7.8 W
inrush power in VA (50/60 Hz, AC) inrush power in W (DC) hold-in power consumption in VA (50/60 Hz, AC) hold-in power consumption in W (DC)	8 Mcycles 540 VA 380 W 12.4 VA
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inrush power in VA (50/60 Hz, AC) inrush power in W (DC) hold-in power consumption in VA (50/60 Hz, AC) hold-in power consumption in W (DC) Operating time	8 Mcycles 540 VA 380 W 12.4 VA 7.8 W 4070 ms closing 1550 ms opening
inrush power in VA (50/60 Hz, AC) inrush power in W (DC) hold-in power consumption in VA (50/60 Hz, AC) hold-in power consumption in W (DC) Operating time	8 Mcycles 540 VA 380 W 12.4 VA 7.8 W 4070 ms closing 1550 ms opening 600 cyc/h AC-3

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Connections - terminals	Power circuit: bar 2 - busbar cross section: 25 x 6 mm
communications communication	Power circuit: lugs-ring terminals 1 185 mm <sup>2</sup>
	Power circuit: lags-ring terminals 1 165 min
	Control circuit: push-in 1 0.22.5 mm² - cable stiffness: solid stranded without cable
	end
	Control circuit: push-in 1 0.252.5 mm <sup>2</sup> - 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
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	193 mm
Width	108 mm
Depth	193 mm
Net weight	3.5 kg

## **Environment**

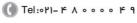
IP degree of protection	IP2X front face with shrouds conforming to IEC 60529 IP2X front face with shrouds conforming to VDE 0106	
Ambient air temperature for operation	-2560 °C	
Ambient air temperature for storage	-6080 °C	
Mechanical robustness	Vibrations 5300 Hz 2 gn contactor open Vibrations 5300 Hz 4 gn contactor closed Shocks 10 gn 11 ms contactor open Shocks 15 gn 11 ms contactor closed	
Colour	Dark grey	
Protective treatment	ТН	
Permissible ambient air temperature around the device	-4070 °C at Uc	

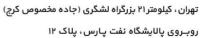
# **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	25.5 cm
Package 1 Width	17.5 cm
Package 1 Length	32 cm
Package 1 Weight	4.584 ka

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Unit Type of Package 2	S06
Number of Units in Package 2	12
Package 2 Height	75 cm
Package 2 Width	60 cm
Package 2 Length	80 cm
Package 2 Weight	68 454 kg

## **Logistical informations**

Country of origin CN

# **Contractual warranty**

Warranty 18 months

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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	763
Environmental Disclosure	Product Environmental Profile

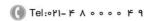
#### **Use Better**

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
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

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## **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

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## LC1G185KUEN



Offer Marketing Illustration

#### **Product benefits / Features**



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Offer Marketing Illustration

### Product benefits / Features



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Offer Marketing Illustration

#### **Product benefits / Features**



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## Offer Marketing Illustration

#### **Product benefits / Features**

# TeSys Giga

## Contactors



#### Simplified maintenance

A patented modular design for the switching and control unit and cable memory enables better performance and faster spare parts replacement in an optimised footprint.



## Ready for critical applications

Improved auxiliary contacts (17 V/1 mA, 10-8) enable better reliability in harsh environments and conform to high-density PLC input applications.



### Resilience and uptime

Self diagnostic functions enable predictive maintenance with easier and safer commissioning.

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