Product datasheet

Specifications





High power contactor, TeSys Giga, 3 pole (3NO), AC-3 <=440V 500A, standard version, 100...250V wide band AC/DC coil

LC1G500KUEN

EAN Code: 3606481921994

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 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	700 A (at <40 °C) at <= 1000 V AC-1 500 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	
[Ith] Conventional Free Air Thermal Current	700 A (at 40 °C)
Rated Breaking Capacity	4600 A at 440 V
[Icw] Rated Short-Time Withstand Current	4.0 kA - 10 s 2.8 kA - 30 s 2.2 kA - 1 min 1.5 kA - 3 min 1.2 kA - 10 min
Associated Fuse Rating	500 A aM at <= 440 V for motor 400 A aM at <= 690 V for motor

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800 A gG at <= 690 V

Mounting Support	Plate	
Connection Pitch	45 mm	
	end Control circuit: push-in 0.752.5 mm² - cable stiffness: flexible with cable end	
76	Control circuit: push-in 2 0.51.0 mm ² with cable end Control circuit: push-in 0.752.5 mm ² - 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 1 0.22.5 mm² - cable stiffness: solid stranded without cable	
	Power circuit: lugs-ring terminals 1 185 mm² Power circuit: bolted connection	
Connections - Terminals	Power circuit: bar 2 - busbar cross section: 32 x 10 mm	
	150 cyc/h AC-4	
	600 cyc/h AC-3e 300 cyc/h AC-1	
Maximum Operating Rate	600 cyc/h AC-3	
	1550 ms opening	
Operating Time	4070 ms closing	
Hold-In Power Consumption In W Dc)	9.3 W	
Hold-In Power Consumption In Va (50/60 Hz, Ac)	15.5 VA	
Inrush Power In W (Dc)	660 W	
Inrush Power In Va (50/60 Hz, Ac)	750 VA	
Mechanical Durability	8 Mcycles	
Coil Technology	5090 A at 440 V Built-in bidirectional peak limiting	
rms Rated Making Capacity	450 hp at 575/600 V 60 Hz	
	400 hp at 460/480 V 60 Hz	
	200 hp at 230/240 V 60 Hz	
Motor Power Hp	150 hp at 200/208 V 60 Hz	
	355 kW at 690 V AC 50/60 Hz (AC-4) 280 kW at 1000 V AC 50/60 Hz (AC-4)	
	295 kW at 500 V AC 50/60 Hz (AC-4)	
	250 kW at 415 V AC 50/60 Hz (AC-4) 295 kW at 440 V AC 50/60 Hz (AC-4)	
	250 kW at 400 V AC 50/60 Hz (AC-4)	
	335 kW at 1000 V AC 50/60 Hz (AC-3) 150 kW at 230 V AC 50/60 Hz (AC-4)	
	355 kW at 690 V AC 50/60 Hz (AC-3)	
	315 kW at 440 V AC 50/60 Hz (AC-3) 355 kW at 500 V AC 50/60 Hz (AC-3)	
	250 kW at 415 V AC 50/60 Hz (AC-3)	
	250 kW at 400 V AC 50/60 Hz (AC-3)	
	335 kW at 1000 V AC 50/60 Hz (AC-3e) 160 kW at 230 V AC 50/60 Hz (AC-3)	
	355 kW at 690 V AC 50/60 Hz (AC-3e)	
	280 kW at 440 V AC 50/60 Hz (AC-3e) 315 kW at 500 V AC 50/60 Hz (AC-3e)	
	250 kW at 415 V AC 50/60 Hz (AC-3e)	
Motor Power Kw	147 kW at 230 V AC 50/60 Hz (AC-3e) 250 kW at 400 V AC 50/60 Hz (AC-3e)	
Auxiliary Contact Composition	1 NO + 1 NC	
Pole Contact Composition	3 NO	
Compatibility Code	LC1G	
Power Dissipation Per Pole	40 W AC-1 - Ith 700 A 20 W AC-3 - Ith 500 A	
Ui] Rated Insulation Voltage	1000 V	
Average Impedance	0.00008 Ohm	

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	35 N.m	
Height	225 mm	
Width	140 mm	
Depth	226 mm	
Net Weight	7.5 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

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Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	31.0 cm
Package 1 Width	22.5 cm
Package 1 Length	31.0 cm
Package 1 Weight	7.96 kg
Unit Type Of Package 2	S06
Number Of Units In Package 2	4
Package 2 Height	105 cm
Package 2 Width	60 cm
Package 2 Length	80 cm
Package 2 Weight	46 kg

Contractual warranty

Warranty 18 months

Sustainability Green Premium*

Green PremiumTM 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-CO₂ 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

Ø	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

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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

