Product datasheet

Specifications





High power contactor, TeSys Giga, 4 pole (4NO), AC-1 <=440V 250A, standard version, 48...130V wide band AC/DC coil

LC1G1154EHEN

Main

Range	TeSys	
Range of product	TeSys Giga	
product or component type	Contactor	
Device short name	LC1G	
contactor application	Power switching	
Utilisation category	AC-3 AC-3e AC-1 AC-5a AC-5b AC-6a AC-6b DC-1 DC-3 DC-5	
poles description	4P	
[Ue] rated operational voltage	<= 1000 V AC 50/60 Hz <= 460 V DC	
[le] rated operational current	115 A (at <60 °C) at <= 440 V AC-3 250 A (at <40 °C) at <= 1000 V AC-1	
[Uc] control circuit voltage	48130 V AC 50/60 Hz 48130 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 250 A (at 40 °C) Rated breaking capacity 1040 A at 440 V [Icw] rated short-time withstand current 1.1 kA - 10 s 0.64 kA - 30 s 0.52 kA - 1 min 0.4 kA - 3 min 0.32 kA - 10 min Associated fuse rating 125 A aM at <= 440 V for motor 125 A aG at <= 690 V 315 A gG at <= 690 V Average impedance 0.00018 Ohm [Ui] rated insulation voltage 1000 V	<u> </u>	
[Ith] conventional free air thermal 250 A (at 40 °C) current 1040 A at 440 V Rated breaking capacity 1040 A at 440 V [Icw] rated short-time withstand 1.1 kA - 10 s current 0.64 kA - 30 s 0.52 kA - 1 min 0.4 kA - 3 min 0.32 kA - 10 min 0.32 kA - 10 min Associated fuse rating 125 A aM at <= 440 V for motor		8 kV
current 1040 A at 440 V Rated breaking capacity 1040 A at 440 V [Icw] rated short-time withstand current 1.1 kA - 10 s 0.64 kA - 30 s 0.52 kA - 1 min 0.4 kA - 3 min 0.32 kA - 10 min Associated fuse rating 125 A aM at <= 440 V for motor 125 A aM at <= 690 V for motor 315 A gG at <= 690 V	Overvoltage category	III
[Icw] rated short-time withstand current $1.1 \text{ kA} - 10 \text{ s}$ 0.64 kA - 30 s 0.52 kA - 1 min 0.4 kA - 3 min 0.32 kA - 10 min Associated fuse rating $125 A$ aM at <= $440 V$ for motor 125 A aM at <= $690 V$ for motor 315 A gG at <= $690 V$ Average impedance $0.00018 Ohm$		250 A (at 40 °C)
current 0.64 kA - 30 s 0.52 kA - 1 min 0.52 kA - 1 min 0.32 kA - 10 min 0.32 kA - 10 min Associated fuse rating 125 A aM at <= 440 V for motor	Rated breaking capacity	1040 A at 440 V
125 A aM at <= 690 V for motor		0.64 kA - 30 s 0.52 kA - 1 min 0.4 kA - 3 min
- · · · · · · · · · · · · · · · · · · ·	Associated fuse rating	125 A aM at <= 690 V for motor
[Ui] rated insulation voltage 1000 V	Average impedance	0.00018 Ohm
	[Ui] rated insulation voltage	1000 V

Power dissipation per pole	10 W AC-1 - Ith 250 A 3 W AC-3 - Ith 115 A
Compatibility code	LC1G
Pole contact composition	4 NO
Auxiliary contact composition	1 NO + 1 NC
Irms rated making capacity	1560 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)	640 VA
inrush power in W (DC)	445 W
hold-in power consumption in VA (50/60 Hz, AC)	18.7 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
Connections - terminals	Power circuit: bar 2 - busbar cross section: 25 x 6 mm Power circuit: lugs-ring terminals 1 185 mm ² Control circuit: push-in 1 0.22.5 mm ² - cable stiffness: solid stranded without cable end Control circuit: push-in 1 0.252.5 mm ² - cable stiffness: flexible with cable end 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 0.752.5 mm ² - cable stiffness: flexible with cable end Control circuit: push-in 0.752.5 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
Product certifications	CB Scheme CCC cULus EAC CE UKCA EU-RO-MR by DNV-GL
Tightening torque	18 N.m
Height	193 mm
Width	143 mm
Depth	193 mm
net weight	4.4 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 ein temmenetune fen	05 00 00
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	24.500 cm
Package 1 Width	27.000 cm
Package 1 Length	38.500 cm
Package 1 Weight	5.730 kg
Unit Type of Package 2	S06
Number of Units in Package 2	6
Package 2 Height	75.000 cm
Package 2 Width	60.000 cm
Package 2 Length	80.000 cm
Package 2 Weight	44.700 kg

Sustainability Screen 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

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 replace control module

TeSys Giga - How to replace switching modules

TeSys Giga - How to assemble change-over solution