

# Product datasheet

Specifications



High power contactor. TeSys Giga. 3 pole (3NO). AC-3 <=440V 115A. advanced version. 200...500V wide band AC/DC coil

LC1G115LSEA

Price: 12,712.64 ZAR

## Main

|                                |                                                                                                             |
|--------------------------------|-------------------------------------------------------------------------------------------------------------|
| Range                          | TeSys                                                                                                       |
| Range Of Product               | TeSys Giga                                                                                                  |
| Product Or Component Type      | Contactors                                                                                                  |
| Device Short Name              | LC1G                                                                                                        |
| Contactors Application         | Power switching<br>Motor control                                                                            |
| Utilisation Category           | AC-1<br>AC-3<br>AC-3e<br>AC-4<br>AC-5a<br>AC-5b<br>AC-6a<br>AC-6b<br>AC-8b<br>AC-8a<br>DC-1<br>DC-3<br>DC-5 |
| Poles Description              | 3P                                                                                                          |
| [Ue] Rated Operational Voltage | <= 1000 V AC 50/60 Hz<br><= 460 V DC                                                                        |
| [Ie] Rated Operational Current | 250 A (at <40 °C) at <= 1000 V AC-1<br>115 A (at <60 °C) at <= 440 V AC-3                                   |
| [Uc] Control Circuit Voltage   | 200...500 V AC 50/60 Hz<br>200...500 V DC                                                                   |
| Control Circuit Voltage Limits | Operational: 0.8 Uc Min...1.1 Uc Max (at <60 °C)<br>Drop-out: 0.1 Uc Max...0.45 Uc Min (at <60 °C)          |

## Complementary

|                                          |                                                                                          |
|------------------------------------------|------------------------------------------------------------------------------------------|
| [Uimp] Rated Impulse Withstand Voltage   | 8 kV                                                                                     |
| Overvoltage Category                     | III                                                                                      |
| Rated Breaking Capacity                  | 1040 A at 440 V                                                                          |
| [Icw] Rated Short-Time Withstand Current | 1.1 kA - 10 s<br>0.64 kA - 30 s<br>0.52 kA - 1 min<br>0.4 kA - 3 min<br>0.32 kA - 10 min |
| Associated Fuse Rating                   | 125 A aM at <= 440 V for motor<br>125 A aM at <= 690 V for motor<br>315 A gG at <= 690 V |
| Average Impedance                        | 0.00018 Ohm                                                                              |

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Ui] Rated Insulation Voltage                  | 1000 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Power Dissipation Per Pole                     | 10 W AC-1 - lth 250 A<br>3 W AC-3 - lth 115 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Compatibility Code                             | LC1G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Pole Contact Composition                       | 3 NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Auxiliary Contact Composition                  | 1 NO + 1 NC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Motor Power Kw                                 | 30 kW at 230 V AC 50/60 Hz (AC-3e)<br>55 kW at 400 V AC 50/60 Hz (AC-3e)<br>55 kW at 415 V AC 50/60 Hz (AC-3e)<br>75 kW at 440 V AC 50/60 Hz (AC-3e)<br>75 kW at 500 V AC 50/60 Hz (AC-3e)<br>75 kW at 690 V AC 50/60 Hz (AC-3e)<br>30 kW at 230 V AC 50/60 Hz (AC-3)<br>55 kW at 400 V AC 50/60 Hz (AC-3)<br>55 kW at 415 V AC 50/60 Hz (AC-3)<br>75 kW at 440 V AC 50/60 Hz (AC-3)<br>75 kW at 500 V AC 50/60 Hz (AC-3)<br>75 kW at 690 V AC 50/60 Hz (AC-3)<br>30 kW at 230 V AC 50/60 Hz (AC-4)<br>55 kW at 400 V AC 50/60 Hz (AC-4)<br>55 kW at 415 V AC 50/60 Hz (AC-4)<br>65 kW at 440 V AC 50/60 Hz (AC-4)<br>65 kW at 500 V AC 50/60 Hz (AC-4)<br>75 kW at 690 V AC 50/60 Hz (AC-4) |
| Motor Power Hp                                 | 30 hp at 200/208 V 60 Hz<br>40 hp at 230/240 V 60 Hz<br>75 hp at 460/480 V 60 Hz<br>100 hp at 575/600 V 60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Coil Technology                                | Built-in bidirectional peak limiting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Mechanical Durability                          | 8 Mcycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Inrush Power In Va (50/60 Hz, Ac)              | 295 VA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Inrush Power In W (Dc)                         | 215 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Hold-In Power Consumption In Va (50/60 Hz, Ac) | 13.0 VA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Hold-In Power Consumption In W (Dc)            | 8.0 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Operating Time                                 | 40...70 ms closing<br>15...50 ms opening                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Maximum Operating Rate                         | 600 cyc/h AC-3<br>600 cyc/h AC-3e<br>300 cyc/h AC-1<br>150 cyc/h AC-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Connections - Terminals                        | Power circuit: bar 2 - busbar cross section: 25 x 6 mm<br>Power circuit: lugs-ring terminals 1 185 mm²<br>Power circuit: bolted connection<br>Control circuit: push-in 1 0.2...2.5 mm² - cable stiffness: solid stranded without cable end<br>Control circuit: push-in 1 0.25...2.5 mm² - cable stiffness: flexible with cable end<br>Control circuit: push-in 2 0.5...1.0 mm² with cable end<br>Control circuit: push-in 0.75...2.5 mm² - cable stiffness: solid stranded without cable end<br>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<br>EN/IEC 60947-5-1<br>UL 60947-4-1<br>CSA C22.2 No 60947-4-1<br>JIS C8201-4-1<br>JIS C8201-5-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

|                        |                                                                      |
|------------------------|----------------------------------------------------------------------|
| Product Certifications | CB Scheme<br>CCC<br>cULus<br>EAC<br>CE<br>UKCA<br>EU-RO-MR by DNV-GL |
| Tightening Torque      | 18 N.m                                                               |
| Height                 | 255 mm                                                               |
| Width                  | 108 mm                                                               |
| Depth                  | 193 mm                                                               |
| Net Weight             | 4.1 kg                                                               |

## Environment

|                                                       |                                                                                                                                                                      |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ip Degree Of Protection                               | IP2X front face with shrouds conforming to IEC 60529<br>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<br>Vibrations 5...300 Hz 4 gn contactor closed<br>Shocks 10 gn 11 ms contactor open<br>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             | 25.200 cm |
| Package 1 Width              | 23.000 cm |
| Package 1 Length             | 38.500 cm |
| Package 1 Weight             | 5.311 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             | 41.866 kg |

Sustainability



**Green Premium™ 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<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

|   |                                    |     |
|---|------------------------------------|-----|
| ✓ | Mercury Free                       |     |
| ✓ | Rohs Exemption Information         | Yes |
| ✓ | Pvc Free                           |     |
| ✓ | Halogen Free Plastic Parts Product |     |

Certifications & Standards

|                          |                                               |
|--------------------------|-----------------------------------------------|
| Reach Regulation         | <a href="#">REACH Declaration</a>             |
| Eu Rohs Directive        | Compliant with Exemptions                     |
| China Rohs Regulation    | <a href="#">China RoHS declaration</a>        |
| Environmental Disclosure | <a href="#">Product Environmental Profile</a> |
| Circularity Profile      | <a href="#">End of Life Information</a>       |

Installation

Installation Videos

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- [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 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](#)
- [TeSys Giga - How to assemble star-delta starter solution New](#)