

# LC1G150KUEN

High power contactor, TeSys Giga, 3 pole  
(3NO), AC-3  $\leq 440\text{V}$  150A, standard version,  
100...250V wide band AC/DC coil



## Main

|                                |                                                                                                                                                            |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                          | TeSys                                                                                                                                                      |
| Range of product               | TeSys Giga                                                                                                                                                 |
| Product or component type      | Contacteur                                                                                                                                                 |
| Device short name              | LC1G                                                                                                                                                       |
| Contactor 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-8a<br>AC-8b<br>DC-1<br>DC-3<br>DC-5                                                |
| Poles description              | 3P                                                                                                                                                         |
| [Ue] rated operational voltage | $\leq 1000\text{ V AC } 50/60\text{ Hz}$<br>$\leq 460\text{ V DC}$                                                                                         |
| [Ie] rated operational current | 275 A (at $\leq 40\text{ }^{\circ}\text{C}$ ) at $\leq 1000\text{ V AC-1}$<br>150 A (at $\leq 60\text{ }^{\circ}\text{C}$ ) at $\leq 440\text{ V AC-3}$    |
| [Uc] control circuit voltage   | 100...250 V AC 50/60 Hz<br>100...250 V DC                                                                                                                  |
| Control circuit voltage limits | Operational: 0.8 Uc Min...1.1 Uc Max (at $\leq 60\text{ }^{\circ}\text{C}$ )<br>Drop-out: 0.1 Uc Max...0.45 Uc Min (at $\leq 60\text{ }^{\circ}\text{C}$ ) |

## Complementary

|                                             |                                                                                                                           |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| [Uimp] rated impulse withstand voltage      | 8 kV                                                                                                                      |
| Overvoltage category                        | III                                                                                                                       |
| [Ith] conventional free air thermal current | 275 A (at $40\text{ }^{\circ}\text{C}$ )                                                                                  |
| Rated breaking capacity                     | 1280 A at 440 V                                                                                                           |
| [Icw] rated short-time withstand current    | 1.2 kA - 10 s<br>0.7 kA - 30 s<br>0.6 kA - 1 min<br>0.45 kA - 3 min<br>0.35 kA - 10 min                                   |
| Associated fuse rating                      | 160 A aM at $\leq 440\text{ V}$ for motor<br>160 A aM at $\leq 690\text{ V}$ for motor<br>315 A gG at $\leq 690\text{ V}$ |
| Average impedance                           | 0.00018 Ohm                                                                                                               |
| [Ui] rated insulation voltage               | 1000 V                                                                                                                    |
| Power dissipation per pole                  | 10 W AC-1 - Ith 275 A<br>5 W AC-3 - Ith 150 A                                                                             |
| Compatibility code                          | LC1G                                                                                                                      |
| Pole contact composition                    | 3 NO                                                                                                                      |
| Auxiliary contact composition               | 1 NO + 1 NC                                                                                                               |

The information provided in this documentation contains general descriptions and/or technical characteristics of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Motor power kW                                 | 37 KW at 230 V AC 50/60 Hz (AC-3e)<br>75 KW at 400 V AC 50/60 Hz (AC-3e)<br>75 KW at 415 V AC 50/60 Hz (AC-3e)<br>90 KW at 440 V AC 50/60 Hz (AC-3e)<br>90 KW at 500 V AC 50/60 Hz (AC-3e)<br>90 KW at 690 V AC 50/60 Hz (AC-3e)<br>75 KW at 1000 V AC 50/60 Hz (AC-3e)<br>37 KW at 230 V AC 50/60 Hz (AC-3)<br>75 KW at 400 V AC 50/60 Hz (AC-3)<br>75 KW at 415 V AC 50/60 Hz (AC-3)<br>90 KW at 440 V AC 50/60 Hz (AC-3)<br>90 KW at 500 V AC 50/60 Hz (AC-3)<br>90 KW at 690 V AC 50/60 Hz (AC-3)<br>75 KW at 1000 V AC 50/60 Hz (AC-3)<br>37 KW at 230 V AC 50/60 Hz (AC-4)<br>75 KW at 400 V AC 50/60 Hz (AC-4)<br>75 KW at 415 V AC 50/60 Hz (AC-4)<br>80 KW at 440 V AC 50/60 Hz (AC-4)<br>90 KW at 500 V AC 50/60 Hz (AC-4)<br>90 KW at 690 V AC 50/60 Hz (AC-4)<br>75 kW at 1000 V AC 50/60 Hz (AC-4) |
| Motor power hp                                 | 40 Hp at 200/208 V 60 Hz<br>50 Hp at 230/240 V 60 Hz<br>100 Hp at 460/480 V 60 Hz<br>125 hp at 575/600 V 60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Irms rated making capacity                     | 1890 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                                 | 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 mm <sup>2</sup><br>Power circuit: bolted connection<br>Control circuit: push-in 1 0.2...2.5 mm <sup>2</sup> - cable stiffness: solid stranded without cable end<br>Control circuit: push-in 1 0.25...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end<br>Control circuit: push-in 2 0.5...1.0 mm <sup>2</sup> with cable end<br>Control circuit: push-in 0.75...2.5 mm <sup>2</sup> - cable stiffness: solid stranded without cable end<br>Control circuit: push-in 0.75...2.5 mm <sup>2</sup> - 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<br>Scheme[RETURN]CCC[RETURN]cULus[RETURN]EAC[RETURN]CE[RETURN]UKCA[RETURN]<br>RO-MR by DNV-GL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Tightening torque                              | 18 N.m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Height                                         | 193 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Width                                          | 108 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Depth                                          | 193 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Net weight                                     | 3.6 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 U <sub>c</sub>                                                                                                                                        |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 24.500 cm |
| Package 1 Width              | 23.500 cm |
| Package 1 Length             | 38.500 cm |
| Package 1 Weight             | 4.768 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             | 38.620 kg |

## Offer Sustainability

|                             |                                                                                                                                   |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status    | Green Premium product                                                                                                             |
| REACH Regulation            |  <a href="#">REACH Declaration</a>             |
| EU RoHS Directive           | Compliant with Exemptions                                                                                                         |
| Mercury free                | Yes                                                                                                                               |
| China RoHS Regulation       |  <a href="#">China RoHS Declaration</a>        |
| RoHS exemption information  |  <a href="#">Yes</a>                           |
| Environmental Disclosure    |  <a href="#">Product Environmental Profile</a> |
| Circularity Profile         |  <a href="#">End Of Life Information</a>       |
| PVC free                    | Yes                                                                                                                               |
| Halogen content performance | Halogen free plastic parts product                                                                                                |







