

# Product datasheet

Specifications



High power contactor, TeSys Giga, 4 pole (4NO), AC-1  $\leq 440\text{V } 550\text{A}$ , advanced version, 48...130V wide band AC/DC coil

LC1G4004EHEA

EAN Code : 3606481922687

## Main

|                                |  |
|--------------------------------|--|
| Range                          | TeSys  |
| Range of product               | TeSys Giga   |
| Product or component type      | Contacteur   |
| Device short name              | LC1G   |
| Contacteur application         | Power switching  |
| Utilisation category           | AC-1<br>AC-5a<br>AC-5b<br>AC-6a<br>AC-6b<br>DC-1<br>DC-3<br>DC-5   |
| Poles description              | 4P   |
| [Ue] rated operational voltage | $\leq 1000\text{ V AC } 50/60\text{ Hz}$<br>$\leq 460\text{ V DC}$   |
| [Ie] rated operational current | 550 A (at $<40\text{ }^\circ\text{C}$ ) at $\leq 1000\text{ V AC-1}$   |
| [Uc] control circuit voltage   | 48...130 V AC 50/60 Hz<br>48...130 V DC  |
| Control circuit voltage limits | Operational: 0.8 Uc Min...1.1 Uc Max (at $<60\text{ }^\circ\text{C}$ )<br>Drop-out: 0.1 Uc Max...0.45 Uc Min (at $<60\text{ }^\circ\text{C}$ ) |

## Complementary

|   |   |
|---|---|
| [Uimp] rated impulse withstand voltage      | 8 kV  |
| Overvoltage category                        | III   |
| [Ith] conventional free air thermal current | 550 A (at $40\text{ }^\circ\text{C}$ )  |
| Rated breaking capacity                     | 3480 A at 440 V   |
| [Icw] rated short-time withstand current    | 3.6 kA - 10 s<br>2.4 kA - 30 s<br>1.7 kA - 1 min<br>1.2 kA - 3 min<br>1.0 kA - 10 min                                     |
| Associated fuse rating                      | 500 A aM at $\leq 440\text{ V}$ for motor<br>315 A aM at $\leq 690\text{ V}$ for motor<br>630 A gG at $\leq 690\text{ V}$ |
| Average impedance                           | 0.0001 Ohm  |

|   |   |
|---|---|
| <b>[Ui] rated insulation voltage</b>                  | 1000 V  |
| <b>Power dissipation per pole</b>                     | 30 W AC-1 - Ith 550 A   |
| <b>Compatibility code</b>                             | LC1G  |
| <b>Pole contact composition</b>                       | 4 NO  |
| <b>Auxiliary contact composition</b>                  | 1 NO + 1 NC   |
| <b>Motor power hp</b>                                 | 125 hp at 200/208 V 60 Hz<br>150 hp at 230/240 V 60 Hz<br>300 hp at 460/480 V 60 Hz<br>400 hp at 575/600 V 60 Hz  |
| <b>Irms rated making capacity</b>                     | 5090 A at 440 V   |
| <b>Coil technology</b>                                | Built-in bidirectional peak limiting  |
| <b>Mechanical durability</b>                          | 8 Mcycles   |
| <b>Inrush power in VA (50/60 Hz, AC)</b>              | 450 VA  |
| <b>Inrush power in W (DC)</b>                         | 360 W   |
| <b>Hold-in power consumption in VA (50/60 Hz, AC)</b> | 11.7 VA   |
| <b>Hold-in power consumption in W (DC)</b>            | 8.3 W   |
| <b>Operating time</b>                                 | 40...70 ms closing<br>15...50 ms opening  |
| <b>Maximum operating rate</b>                         | 300 cyc/h AC-1  |
| <b>Connections - terminals</b>                        | Power circuit: bar 2 - busbar cross section: 32 x 10 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 |
| <b>Connection pitch</b>                               | 45 mm   |
| <b>Mounting support</b>                               | Plate   |
| <b>Standards</b>                                      | 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  |
| <b>Product certifications</b>                         | CB Scheme<br>CCC<br>cULus<br>EAC<br>CE<br>UKCA<br>EU-RO-MR by DNV-GL  |
| <b>Tightening torque</b>                              | 35 N.m  |
| <b>Height</b>   | 290 mm  |
| <b>Width</b>  | 185 mm  |
| <b>Depth</b>  | 226 mm  |
| <b>Net weight</b>                                     | 8.7 kg  |
| <b>Environment</b>                                    |   |
| <b>IP degree of protection</b>                        | IP2X front face with shrouds conforming to IEC 60529<br>IP2X front face with shrouds conforming to VDE 0106   |
| <b>Ambient air temperature for operation</b>          | -25...60 °C   |
| <b>Ambient air temperature for storage</b>            | -60...80 °C   |

|  |  |
|--|--|
| <b>Mechanical robustness</b>                                 | 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 |
| <b>Colour</b>  | Dark grey  |
| <b>Protective treatment</b>                                  | TH   |
| <b>Permissible ambient air temperature around the device</b> | -40...70 °C at Uc  |

## Packing Units

|                                     |          |
|-------------------------------------|----------|
| <b>Unit Type of Package 1</b>       | PCE      |
| <b>Number of Units in Package 1</b> | 1        |
| <b>Package 1 Height</b>             | 27.0 cm  |
| <b>Package 1 Width</b>              | 31.5 cm  |
| <b>Package 1 Length</b>             | 37.0 cm  |
| <b>Package 1 Weight</b>             | 10.95 kg |
| <b>Unit Type of Package 2</b>       | S06      |
| <b>Number of Units in Package 2</b> | 4        |
| <b>Package 2 Height</b>             | 75.0 cm  |
| <b>Package 2 Width</b>              | 60.0 cm  |
| <b>Package 2 Length</b>             | 80.0 cm  |
| <b>Package 2 Weight</b>             | 54.5 kg  |

## Offer Sustainability

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

## Contractual warranty

|                 |           |
|-----------------|-----------|
| <b>Warranty</b> | 18 months |
|-----------------|-----------|

**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 change-over solution](#)

**Recommended replacement(s)**