

# Product datasheet

Specifications



High power contactor, TeSys Giga, 3 pole (3NO), AC-3  $\leq 440\text{V}$  330A, advanced version, 24...48V wide band AC/DC coil

LC1G330BEEA

EAN Code: 3606481922274

## Main

|                                |  |
|--------------------------------|--|
| Range                          | TeSys  |
| Range of product               | TeSys Giga   |
| Product or component type      | Contacteur   |
| Device short name              | LC1G   |
| Contacteur 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 | 440 A (at $<40\text{ }^\circ\text{C}$ ) at $\leq 1000\text{ V AC-1}$<br>330 A (at $<60\text{ }^\circ\text{C}$ ) at $\leq 440\text{ V AC-3}$    |
| [Uc] control circuit voltage   | 24...48 V AC 50/60 Hz<br>24...48 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 | 440 A (at $40\text{ }^\circ\text{C}$ )  |
| Rated breaking capacity                     | 2940 A at 440 V   |
| [Icw] rated short-time withstand current    | 2.65 kA - 10 s<br>1.8 kA - 30 s<br>1.3 kA - 1 min<br>0.9 kA - 3 min<br>0.75 kA - 10 min   |
| Associated fuse rating                      | 400 A aM at $\leq 440\text{ V}$ for motor<br>250 A aM at $\leq 690\text{ V}$ for motor<br>500 A gG at $\leq 690\text{ V}$<br>600 A UL Type L at $\leq 600\text{ V}$ |

|   |   |
|---|---|
| <b>Average impedance</b>                              | 0.000144 Ohm  |
| <b>[Ui] rated insulation voltage</b>                  | 1000 V  |
| <b>Power dissipation per pole</b>                     | 30 W AC-1 - lth 440 A<br>16 W AC-3 - lth 330 A  |
| <b>Compatibility code</b>                             | LC1G  |
| <b>Pole contact composition</b>                       | 3 NO  |
| <b>Auxiliary contact composition</b>                  | 1 NO + 1 NC   |
| <b>Motor power kW</b>                                 | 90 kW at 230 V AC 50/60 Hz (AC-3e)<br>160 kW at 400 V AC 50/60 Hz (AC-3e)<br>160 kW at 415 V AC 50/60 Hz (AC-3e)<br>185 kW at 440 V AC 50/60 Hz (AC-3e)<br>200 kW at 500 V AC 50/60 Hz (AC-3e)<br>220 kW at 690 V AC 50/60 Hz (AC-3e)<br>185 kW at 1000 V AC 50/60 Hz (AC-3e)<br>90 kW at 230 V AC 50/60 Hz (AC-3)<br>160 kW at 400 V AC 50/60 Hz (AC-3)<br>160 kW at 415 V AC 50/60 Hz (AC-3)<br>200 kW at 440 V AC 50/60 Hz (AC-3)<br>200 kW at 500 V AC 50/60 Hz (AC-3)<br>220 kW at 690 V AC 50/60 Hz (AC-3)<br>185 kW at 1000 V AC 50/60 Hz (AC-3)<br>90 kW at 230 V AC 50/60 Hz (AC-4)<br>160 kW at 400 V AC 50/60 Hz (AC-4)<br>160 kW at 415 V AC 50/60 Hz (AC-4)<br>185 kW at 440 V AC 50/60 Hz (AC-4)<br>200 kW at 500 V AC 50/60 Hz (AC-4)<br>220 kW at 690 V AC 50/60 Hz (AC-4)<br>185 kW at 1000 V AC 50/60 Hz (AC-4) |
| <b>Motor power hp</b>                                 | 100 hp at 200/208 V 60 Hz<br>125 hp at 230/240 V 60 Hz<br>250 hp at 460/480 V 60 Hz<br>300 hp at 575/600 V 60 Hz  |
| <b>Irms rated making capacity</b>                     | 3830 A at 440 V   |
| <b>Coil technology</b>                                | Built-in bidirectional peak limiting  |
| <b>Safety reliability level</b>                       | B10d = 400000 cycles contactor with nominal load conforming to EN/ISO 13849-1<br>B10d = 3000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1  |
| <b>Mechanical durability</b>                          | 8 Mcycles   |
| <b>inrush power in VA (50/60 Hz, AC)</b>              | 540 VA  |
| <b>inrush power in W (DC)</b>                         | 380 W   |
| <b>hold-in power consumption in VA (50/60 Hz, AC)</b> | 17.9 VA   |
| <b>hold-in power consumption in W (DC)</b>            | 6.4 W   |
| <b>Operating time</b>                                 | 40...70 ms closing<br>15...50 ms opening  |
| <b>Maximum operating rate</b>                         | 600 cyc/h AC-3<br>600 cyc/h AC-3e<br>300 cyc/h AC-1<br>150 cyc/h AC-4   |
| <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<br>IEC 60335-1:Clause 30.2<br>IEC 60335-2-40:Annex JJ<br>UL 60335-1<br>UL 60335-2-40:Annex JJ |
| <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>                  | 140 mm   |
| <b>Depth</b>                  | 226 mm   |
| <b>Net weight</b>             | 7.8 kg   |

## Environment

|  |  |
|--|--|
| <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 U <sub>c</sub>  |

## Packing Units

|                                     |           |
|-------------------------------------|-----------|
| <b>Unit Type of Package 1</b>       | PCE       |
| <b>Number of Units in Package 1</b> | 1         |
| <b>Package 1 Height</b>             | 30.800 cm |
| <b>Package 1 Width</b>              | 22.500 cm |
| <b>Package 1 Length</b>             | 37.000 cm |
| <b>Package 1 Weight</b>             | 8.623 kg  |
| <b>Unit Type of Package 2</b>       | S06       |
| <b>Number of Units in Package 2</b> | 4         |
| <b>Package 2 Height</b>             | 75.000 cm |
| <b>Package 2 Width</b>              | 60.000 cm |
| <b>Package 2 Length</b>             | 80.000 cm |
| <b>Package 2 Weight</b>             | 46.220 kg |

## Logistical informations

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Country of origin CN

## Contractual warranty

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Warranty (in months) 18



## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Environmental footprint

Total lifecycle Carbon footprint 1448

Environmental Disclosure [Product Environmental Profile](#)

## Use Better

### Materials and Substances

Packaging made with recycled cardboard Yes

Packaging without single use plastic No

[EU RoHS Directive](#) Compliant with Exemptions

SCIP Number 6fbdad13-bb7c-47d4-a6d6-d82dd6f54349

REACH Regulation [REACH Declaration](#)

Halogen-free status Halogen free plastic parts product

PVC free No

## Use Longer

### Lifetime extension

Repair No

## Use Again

### Repack and remanufacture

End of life manual availability [End of Life Information](#)

Take-back No

WEEE Label The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

## 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](#)

Offer Marketing Illustration

Product benefits / Features

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**TeSys Giga Contactors**  
Range Accessories

Mechanical interlock, Cable memory kit, Terminal shroud, Auxiliary contact block, Remote Wear Diagnostic Module, Switching Module Kit, Control module, Phase separator, Change-over connection bar, Reverser connection bar

The image displays a collection of accessories for TeSys Giga Contactors. At the top left, a large contactor is shown against a green circular background. Below it, twelve different accessories are arranged in three rows. Each accessory is accompanied by a small image and a text label. The accessories include: Mechanical interlock (two black plastic pieces), Cable memory kit (a black plastic component with terminals), Terminal shroud (a clear plastic protective cover), Auxiliary contact block (a vertical green and black component), Remote Wear Diagnostic Module (a black rectangular module with a blue LED), Switching Module Kit (a white plastic component with multiple terminals), Control module (a black rectangular module with a green LED), Phase separator (two black plastic plates), Change-over connection bar (a black metal bar with multiple terminals), and Reverser connection bar (a black metal bar with multiple terminals).

Offer Marketing Illustration

Product benefits / Features

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### TeSys Giga Contactors

#### Technical Benefits

- Self-diagnostic indicators and full-scale protection help speed up corrections and prevent downtime.
- Modular design that simplifies machine integration and maintenance.
- High power contactors (up to 800 A AC-3 or 1050 A AC-1) for AC/DC motor applications and AC/DC load applications.
- They can be used up to 1000 Vac power voltage and 460 Vdc power voltage.
- Ground fault protection, phase imbalance/ failure protection, and protection of single-phase loads.
- The coil is designed for less energy consumption and wider voltage bandwidth.

Offer Marketing Illustration

Product benefits / Features

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Offer Marketing Illustration

Product benefits / Features

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## TeSys Giga Contactors



### Simplified maintenance

A patented modular design for the switching and control unit and cable memory enables better performance and faster spare parts replacement in an optimised footprint.



### Ready for critical applications

Improved auxiliary contacts (17 V/1 mA, 10-8) enable better reliability in harsh environments and conform to high-density PLC input applications.



### Resilience and uptime

Self diagnostic functions enable predictive maintenance with easier and safer commissioning.



