

# Product datasheet

Specifications



High power contactor, TeSys Giga  
S207, 3P(3NO), AC-3  $\leq 440V$   
185A, standard version, 48-130V AC/  
DC wide band coil

LC1G185EHES207N

⚠ To be discontinued

⚠ Discontinued on: 1 Dec 2024

## 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-8b<br>AC-8a<br>DC-1<br>DC-3<br>DC-5 |
| Poles description              | 3P  |
| [Ue] rated operational voltage | $\leq 1000$ V AC 50/60 Hz<br>$\leq 460$ V DC  |
| [Ie] rated operational current | 305 A (at $<40$ °C) at $\leq 1000$ V AC-1<br>185 A (at $<60$ °C) at $\leq 440$ V AC-3                       |
| [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 $<60$ °C)<br>Drop-out: 0.1 Uc Max...0.45 Uc Min (at $<60$ °C)      |

## Complementary

|   |   |
|---|---|
| [Uimp] rated impulse withstand voltage      | 8 kV  |
| Overtoltage category                        | III   |
| [Ith] conventional free air thermal current | 305 A (at $40$ °C)  |
| Rated breaking capacity                     | 1610 A at 440 V   |
| [Icw] rated short-time withstand current    | 1.5 kA - 10 s<br>0.92 kA - 30 s<br>0.74 kA - 1 min<br>0.5 kA - 3 min<br>0.4 kA - 10 min |

Excluding VAT, FCA Jabal Ali & amp; are subject to change – check with your local distributor.

|   |  |
|---|--|
| <b>Associated fuse rating</b>                         | 200 A aM at ≤ 440 V for motor<br>160 A aM at ≤ 690 V for motor<br>315 A gG at ≤ 690 V<br>300 A UL Type J at ≤ 600 V  |
| <b>Average impedance</b>                              | 0.00017 Ohm  |
| <b>[Ui] rated insulation voltage</b>                  | 1000 V   |
| <b>Power dissipation per pole</b>                     | 20 W AC-1 - lth 305 A<br>6 W AC-3 - lth 185 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>                                 | 55 kW at 230 V AC 50/60 Hz (AC-3e)<br>90 kW at 400 V AC 50/60 Hz (AC-3e)<br>90 kW at 415 V AC 50/60 Hz (AC-3e)<br>110 kW at 440 V AC 50/60 Hz (AC-3e)<br>110 kW at 500 V AC 50/60 Hz (AC-3e)<br>110 kW at 690 V AC 50/60 Hz (AC-3e)<br>75 kW at 1000 V AC 50/60 Hz (AC-3e)<br>55 kW at 230 V AC 50/60 Hz (AC-3)<br>90 kW at 400 V AC 50/60 Hz (AC-3)<br>90 kW at 415 V AC 50/60 Hz (AC-3)<br>110 kW at 440 V AC 50/60 Hz (AC-3)<br>110 kW at 500 V AC 50/60 Hz (AC-3)<br>110 kW at 690 V AC 50/60 Hz (AC-3)<br>75 kW at 1000 V AC 50/60 Hz (AC-3)<br>55 kW at 230 V AC 50/60 Hz (AC-4)<br>90 kW at 400 V AC 50/60 Hz (AC-4)<br>90 kW at 415 V AC 50/60 Hz (AC-4)<br>100 kW at 440 V AC 50/60 Hz (AC-4)<br>110 kW at 500 V AC 50/60 Hz (AC-4)<br>110 kW at 690 V AC 50/60 Hz (AC-4)<br>75 kW at 1000 V AC 50/60 Hz (AC-4) |
| <b>Motor power hp</b>                                 | 50 hp at 200/208 V 60 Hz<br>60 hp at 230/240 V 60 Hz<br>125 hp at 460/480 V 60 Hz<br>150 hp at 575/600 V 60 Hz   |
| <b>Irms rated making capacity</b>                     | 2310 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>              | 640 VA   |
| <b>inrush power in W (DC)</b>                         | 445 W  |
| <b>hold-in power consumption in VA (50/60 Hz, AC)</b> | 18.7 VA  |
| <b>hold-in power consumption in W (DC)</b>            | 7.8 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: 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 |
| <b>Connection pitch</b>        | 35 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   |
| <b>Tightening torque</b>       | 18 N.m   |
| <b>Height</b>                  | 193 mm   |
| <b>Width</b>                   | 108 mm   |
| <b>Depth</b>                   | 193 mm   |
| <b>Net weight</b>              | 3.5 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>             | 26 cm   |
| <b>Package 1 Width</b>              | 17.5 cm |
| <b>Package 1 Length</b>             | 32.5 cm |
| <b>Package 1 Weight</b>             | 4.8 kg  |

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|                                     |         |
|-------------------------------------|---------|
| <b>Unit Type of Package 2</b>       | S06     |
| <b>Number of Units in Package 2</b> | 12      |
| <b>Package 2 Height</b>             | 73.5 cm |
| <b>Package 2 Width</b>              | 60 cm   |
| <b>Package 2 Length</b>             | 80 cm   |
| <b>Package 2 Weight</b>             | 60 kg   |

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## **Contractual warranty**

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|                             |    |
|-----------------------------|----|
| <b>Warranty (in months)</b> | 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                       | 763 kg CO2 eq.                                |
| Carbon footprint of the manufacturing phase [A1 to A3] | 26 kg CO2 eq.                                 |
| Carbon footprint of the distribution phase [A4]        | 1 kg CO2 eq.                                  |
| Carbon footprint of the use phase [B2, B3, B4, B6]     | 726 kg CO2 eq.                                |
| Carbon footprint of the end-of-life phase [C1 to C4]   | 10 kg CO2 eq.                                 |
| Environmental Disclosure                               | <a href="#">Product Environmental Profile</a> |

## Use Better



### Materials and Substances

|  |  |
|--|--|
| Packaging made with recycled cardboard | Yes  |
| Packaging without single use plastic   | Yes  |
| SCIP Number                            | 6fbdad13-bb7c-47d4-a6d6-d82dd6f54349   |
| EU RoHS Directive                      | <a href="#">Compliant By Exemption</a>   |
| REACH Regulation                       | <a href="#">Reference contains Substances of Very High Concern above the threshold</a> |
| Halogen-free status                    | Halogen free plastic parts product   |
| PVC free                               | No   |

## Use Longer




### Lifetime extension

|        |    |
|--------|----|
| Repair | No |
|--------|----|

## Use Again



### Repack and remanufacture

|                                 |   |
|---------------------------------|---|
| Recyclability potential, in %   | 55  |
| End of life manual availability | <a href="#">End of Life Information</a>   |
| Take-back                       | Nej   |
| WEEE Label                      |  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

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**  
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 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 three terminals), Terminal shroud (a clear plastic protective cover), Auxiliary contact block (a green and black component), Remote Wear Diagnostic Module (a black rectangular module with a blue LED), Switching Module Kit (a white plastic component with three terminals), Control module (a black and green component), Phase separator (two black plastic plates), Change-over connection bar (a black metal bar with four terminals), and Reverser connection bar (a black metal bar with four terminals).

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.



Technical Illustration

Assembly's dimensions

