

## Introduction

B9/4

## TeSys Giga High power contactors

| Type of product                                                                       | Range                                                                          |                                                                                     | Pages |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------|
| TeSys Giga High power contactors<br>Advanced version - 3 and 4-poles                  | 3-pole from 115 to 800 A – AC-3<br>3-pole and 4-pole from 250 to 1050 A – AC-1 |  | B9/10 |
| TeSys Giga High power contactors<br>Standard version - 3 and 4-poles                  | 3-pole from 115 to 800 A – AC-3<br>3-pole and 4-pole from 250 to 1050 A – AC-1 |  | B9/12 |
| Auxiliary modules, Accessories, Retrofit kits<br>for TeSys Giga High power contactors |                                                                                |                                                                                     | B9/14 |
| Spare parts<br>for TeSys Giga High power contactors                                   |                                                                                |                                                                                     | B9/20 |

## Technical Data for Designers

B9/23

# On-line tools to configure your motor starters

## EcoStruxure™ Motor Control Configurator



Scan or click  
on the QR code

### Build your starter configuration

- Build your motor starter configuration with different solutions
- Complete offer base suited for different countries.

### Enhanced customer's journey

- Easy selection, replacing complex paper catalogs
- Convert into Bill of Materials (BoM) by adding the products to the cart.

### Answers to customer needs

- Option to save and re-work your configurations
- Direct access to products documentation in one place
- Possibility with unique configurations ID and share.

## Product Selector for TeSys Giga



Scan or click  
on the QR code

### Offer selection

- Easy selection of **TeSys** Giga Contactor or Overload Relays
- Intuitive tool to configure the devices to suit your needs
- Helps to select the right devices for your application.

### Configure your motor starter components

- Options to select auxiliaries and accessories
- Configure reversers and changeover contactors with ease
- Get the extensive bill of material, export it in standard format (PDF, XLS), or drop it into the product cart
- Access to technical information and documentations for every item.

## EcoStruxure Motor Management Design



Scan or click  
on the QR code

### Electrical design calculations for high-power motors

Easily perform basic calculations related to transformer size, short-circuit current and voltage drop, comparing direct-on-line, star-delta, soft-starter, and variable speed drive. Verify starting feasibility from mechanical standpoint and ensure power quality objectives are met, for power factor or harmonic levels. Check energy saving potential of using a variable speed drive for centrifugal pumps and fans.

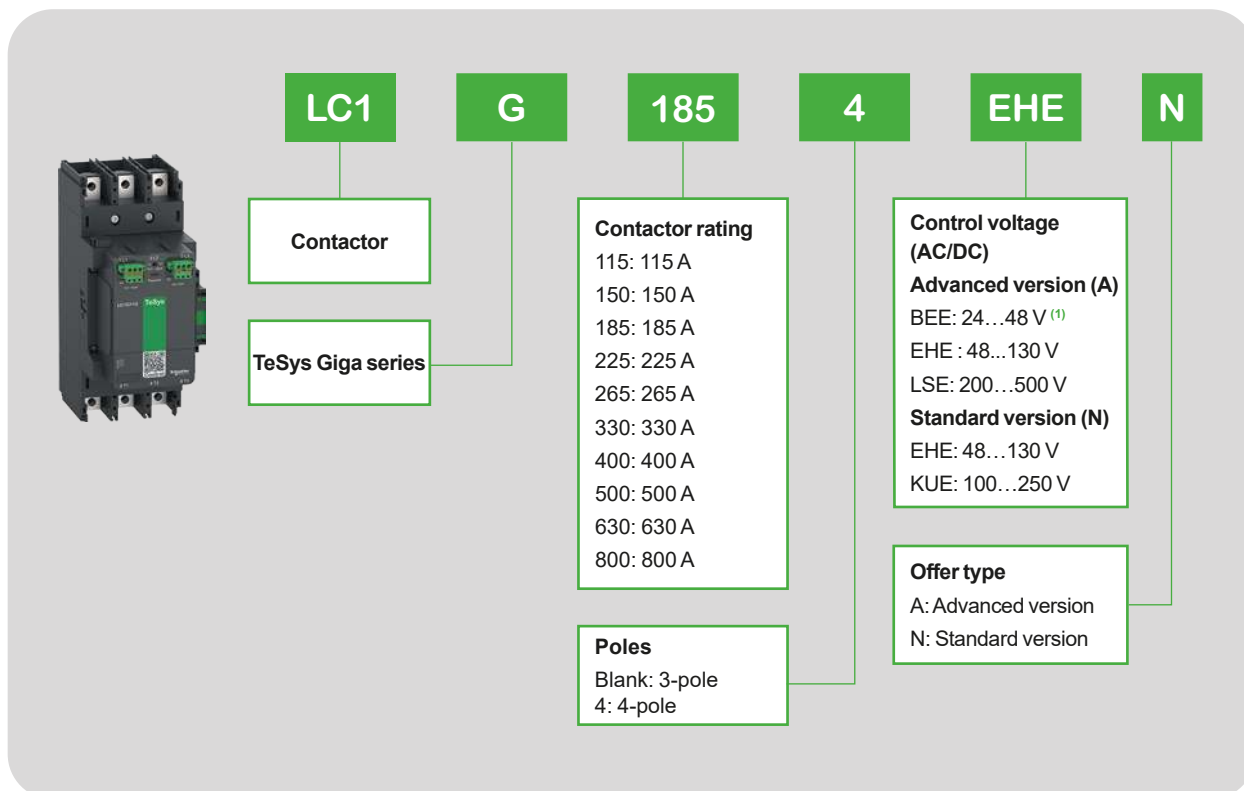
### Offer selection and report

Select among latest compatible offers to build a complete motor management solution: circuit breakers, contactors, MCC panels, drives, protection relays, power factor capacitors, active filters, power quality monitoring and services.

Get a summary report with calculations and recommended offers.

# Product references – coding principle

## > TeSys Giga High power contactors



### Example:

LC1G400LSEA TeSys Giga Contactor Advanced version 400 A, 3-pole, 200...500 V AC/DC coil, with PLC control.

LC1G1854EHEN TeSys Giga Contactor Standard version 185 A, 4-pole, 48...130 V AC/DC coil, without PLC control.

<sup>(1)</sup> 24...48 V AC/DC control voltage option is available for LC1G115...LC1G500 ratings.

## > Quality and Performance as high priority

### TeSys Giga A new Generation series with digital innovation

Over more than 4 decades, the TeSys F range of contactors has built a high reputation for performance, reliability, and quality. The TeSys F range set the industrial standard for high power contactors with an installed base of millions of products. TeSys F contactors were the first choice of many OEMs, control panel builders and industrial users.

But industry requirements have evolved to demand process performance monitoring through data networks and online expert services.

TeSys Giga is Schneider Electric's new range of contactors that answer these evolving needs. TeSys Giga High power contactors support the evolution of processes and offer new services to reduce non-production time to a minimum. Replacing TeSys F Contactors, TeSys Giga High power contactors address a wide range of demanding applications with built-in advanced features and functionalities.



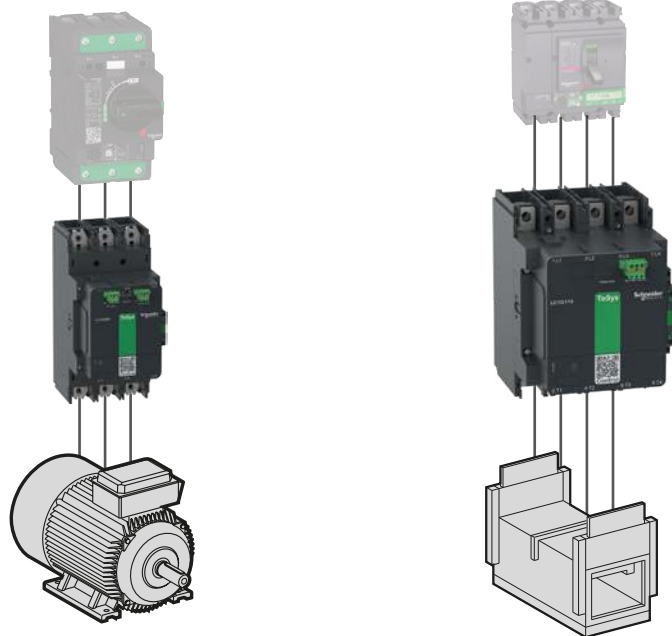
### Futuristic ready...

TeSys Giga High power contactors are designed to work with components and accessories with advanced performance. The characteristics of robustness and longevity are maintained, both in the connectors and in the switching.

Continuous local and remote monitoring of contact wear optimizes predictive maintenance by allowing you to replace contacts only when necessary, facilitated by diagnostic visual indicator.

Every customer will benefit from the innovative design and feature, including the compact size, wideband electronic coils, embedded auxiliary contact blocks, ergonomic design, or flexibility in connections.

## > Applications



AC-3/AC-3e utilization category

AC-1 utilization category

- TeSys Giga High power contactors provide robust control solutions for AC-3/AC-3e applications up to 800 A and AC-1 applications up to 1050 A.
- TeSys Giga High power contactors can be part of a direct-on-line motor starter, reversing motor starter or a star-delta motor starter and power switching application.
- TeSys Giga High power contactors provide contact wear diagnostic and wideband AC/DC control.
- Suitable for type 2 coordination as per IEC60947-4-1.

## > Right choice for a wide range of demanding applications



High power  
contactors

TeSys Giga High power contactors' unique design meets the common requirements of demanding high power applications:

- Conform to multi standards to suit global needs
- Long life expectancy in harsh environments
- Suitable for high efficiency motors
- Very good resistance to vibrations
- High uptime thanks to predictive maintenance
- Optimized installation and maintainability.

## > Intelligent design for greater advantages



Interlock location, with knock-out cover

On/Off switch for PLC input

Push-in type control terminals enabling quick wiring and assembly

Diagnosis LED for contact wear & voltage abnormality

Built-in 1 NO + 1 NC auxiliary contact block

Unique QR code providing quick access to complete product data

Mechanical indicator for contactor open and closed status



### Higher flexibility

TeSys Giga High power contactors can be mounted in different orientation without derating, providing high flexibility of your panel design.

Control wiring, auxiliary contacts and control module are accessible from the front.



### Contact wear diagnostic and predictive maintenance

Contact wear is monitored by a dedicated module and shown in the front panel through LED, therefore the, predictive maintenance can be planned for replacing the complete set of switching modules, thus avoiding break-down maintenance. Switching modules <sup>(1)</sup> can be replaced quickly and easily thanks to their Plug and Play design.

<sup>(1)</sup> Refer to page B9/21 for details on switching modules.

## > Key features

### Advanced contactor control

- The electronic control module provides wideband AC/DC coil control voltage, from 24 V to 500 V, allowing quick adaptation of existing industrial processes as well as new projects.
- The low power consumption of the coils could lead to significant savings on automation equipment. It's now possible to use interface relays with a lower rating, resulting in lower heat emission in the panel.
- The low power consumption of the coils also takes up less space in the panel and simplifies the diagrams by connecting these coils directly to the output cards of the PLCs.

### Simplified wiring

- The pole pitch of the power terminals allows direct mounting and connection to **TeSys Giga** Electronic Overload Relays. Standardization of panel mounting and assembly reduces costs and assembly time.
- Push-in connection for control terminals provides flexibility, ease of connections, and reduced assembly and installation time.

### Enhanced durability

- Durability is a top priority. **TeSys Giga** High power contactors are designed to offer uncompromising robustness and maintenance accessibility to site technicians. The duration of production down-time is reduced, resulting in improved profitability on your investment.

### Advanced diagnostic features

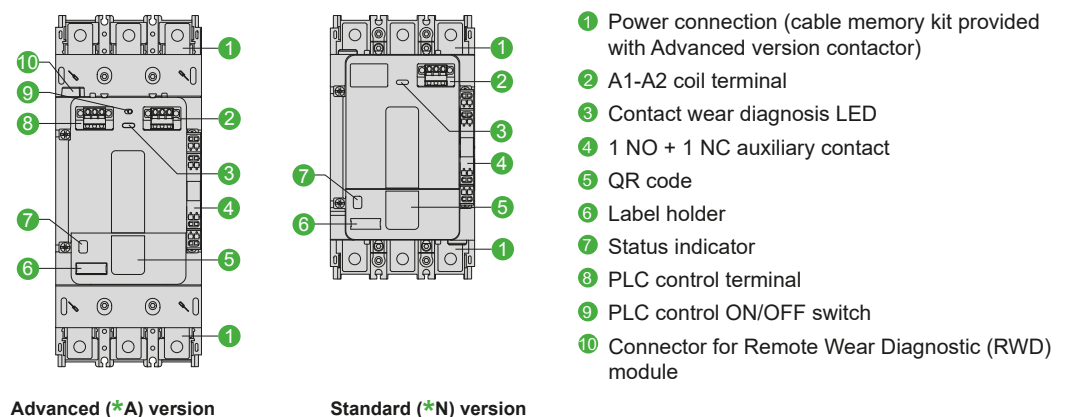
- On-board diagnostics is a new feature in our latest generation of high power contactors. Counting the number of operations as well as monitoring duration of use and pole condition provides numerous benefits for the customer and improves reliability and maintenance planning.

### Compact size

- Compact size provides easy access to power connections for connecting cables and busbars.

### Easy maintenance

- The poles are designed as replaceable switching modules, so the performance of a used contactor can be fully restored. The modular design allows a quick and long-lasting replacement.
- Coils are accessible from the front and maintained with very low down times.



\*: contactor references finishing by A or by N.

# TeSys Control

## Giga High power contactors

### Introduction

A comprehensive range of TeSys Giga High power contactors that are available in 'Advanced' and 'Standard' versions, in 3 sizes, covering several ratings.

A common range of auxiliary contacts and accessories, enabling high flexibility and simplicity.

## > TeSys Giga High power contactors – Advanced version



115...225 A



265...500 A



630...800 A

#### Power & control

- 3 or 4 power poles
- 115 to 800 A (AC-3)
- 250 to 1050 A (AC-1)
- Embedded 1 NO + 1 NC auxiliary contacts
- Push-in type terminals for coils & control

#### Remote control

- 24-48 V, 48-130 V, 200-500 V AC/DC coils
- Low consumption coils
- Wide voltage range coils (direct coil control)
- Digital control input (PLC output digital coil control)
- Embedded surge suppressor

#### Diagnostic

- Embedded wear diagnostic
- Embedded control voltages diagnostic
- Self diagnosis function
- Local alarm signaling (LED)
- Remote wear diagnostic signaling kit (accessory)

#### Mounting

- 'Cable memory' adapter enables maintenance without removing power cables and busbar connections.

#### Standards and Certifications

- Multiple standards
- International certifications

## > TeSys Giga High power contactors – Standard version



115...225 A



265...500 A



630...800 A

#### Power & control

- 3 or 4 power poles
- 115 to 800 A (AC-3)
- 250 to 1050 A (AC-1)
- Embedded 1 NO + 1 NC auxiliary contacts
- Push-in type terminals for coils & control

#### Remote control

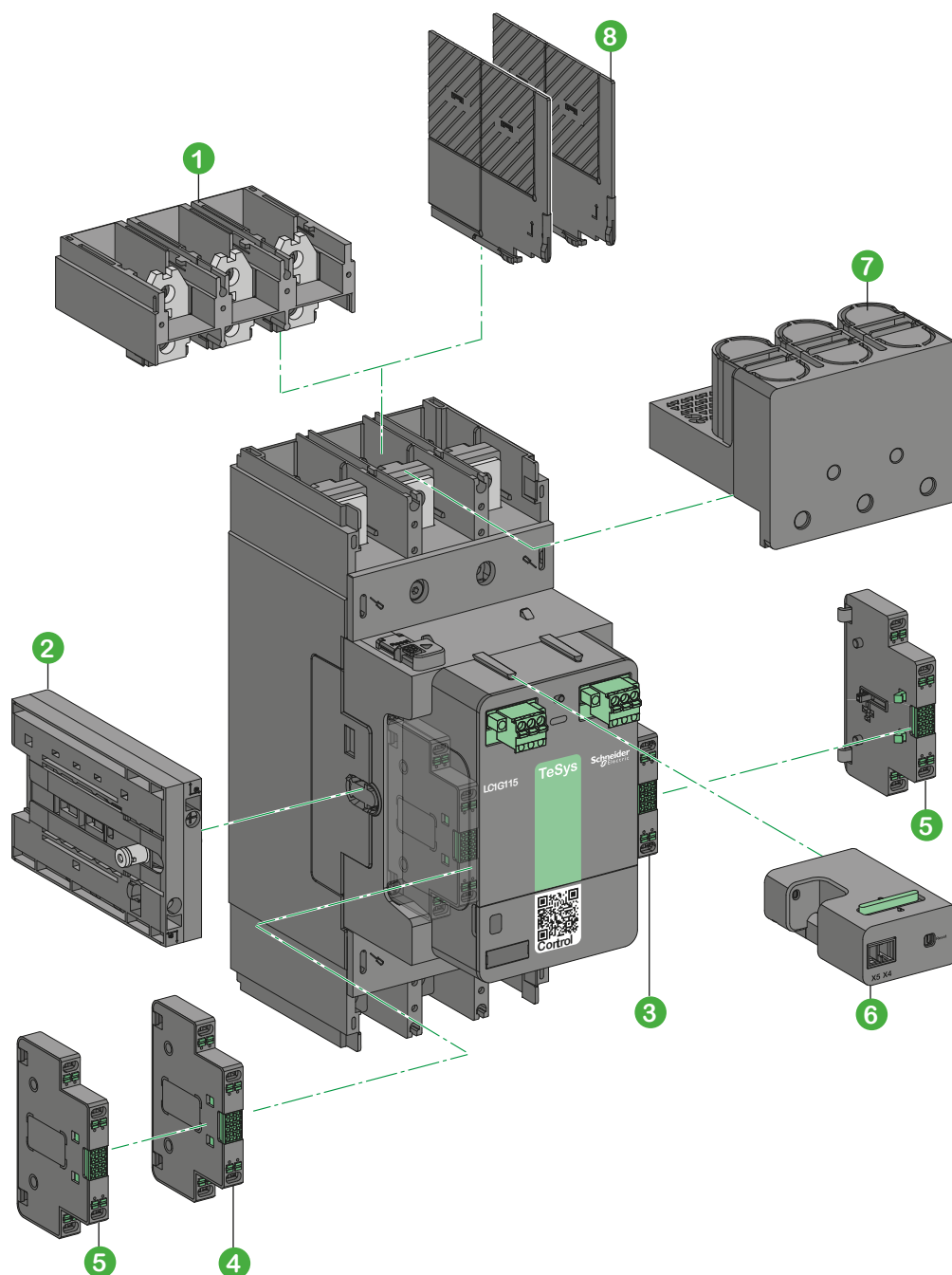
- 48-130 V, 100-250 V AC/DC coils
- Wide voltage range coils (direct coil control)
- Embedded surge-suppressor

#### Diagnostic

- Embedded wear diagnostic
- Embedded control voltages diagnostic
- Self diagnosis function
- Local alarm signaling (LED)

#### Certifications

- Multiple standards
- International certifications



- ① Cable memory kit **LA9G3102**, is always supplied along with Advanced version, and it's an optional accessory for Standard version.
- ② Mechanical interlock **LA9G970**, can be installed on either side of the contactor.
- ③ Auxiliary contact module **LAG8N113P** (1 NO + 1 NC) supplied with LC1G contactor.
- ④ Auxiliary contact modules **LAG8N113P / LAG8N203P**, can be installed on the contactor lateral faces <sup>(1)</sup>
- ⑤ Auxiliary contact modules **LAG8N113 / LAG8N203**, can be installed on either side as 2<sup>nd</sup> set of contacts.
- ⑥ Remote Wear Diagnostic (RWD) Module **LA9GRD01/ LA9GRD10**, can be installed and used only in Advanced version.
- ⑦ IP 20 terminal shroud **LA9G3701**.
- ⑧ Phase separators **LA9G3801**, please refer to pages B9/14 to B9/18 for complete details of available accessories.

**Note:** a maximum of 2 auxiliary contact modules can be mounted on each side of the contactor.  
**(1)** Does not increase the contactor dimensions when fitted on both sides.

# TeSys Control

Giga High power contactors – Advanced – 3-pole and 4-pole

## Product references

### TeSys Giga 3-pole Advanced contactors – For motor control (115 to 800 A)



Motor ratings (kW)  $\theta \leq 60^\circ\text{C}$

IEC

AC-3

AC-3e <sup>(1)</sup>

AC-4

| 230 V | 400 V | 415 V | 440 V | 500 V | 690 V | 1000 V | 230 V | 400 V | 415 V | 440 V | 500 V | 690 V | 1000 V | 230 V | 400 V | 415 V | 440 V | 500 V | 690 V | 1000 V |
|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|--------|
| kW    | kW    | kW    | kW    | kW    | kW    | kW     | kW    | kW    | kW    | kW    | kW    | kW    | kW     | kW    | kW    | kW    | kW    | kW    | kW    | kW     |
| 30    | 55    | 55    | 75    | 75    | 75    | -      | 30    | 55    | 55    | 75    | 75    | 75    | -      | 30    | 55    | 55    | 65    | 65    | 75    | -      |
| 37    | 75    | 75    | 90    | 90    | 90    | 75     | 37    | 75    | 75    | 90    | 90    | 90    | 75     | 37    | 75    | 75    | 80    | 90    | 90    | 75     |
| 55    | 90    | 90    | 110   | 110   | 110   | 75     | 55    | 90    | 90    | 110   | 110   | 110   | 75     | 55    | 90    | 90    | 100   | 110   | 110   | 75     |
| 55    | 110   | 110   | 132   | 132   | 160   | 132    | 55    | 110   | 110   | 132   | 132   | 160   | 132    | 55    | 110   | 110   | 129   | 132   | 132   | 110    |
| 75    | 132   | 132   | 160   | 160   | 200   | 160    | 75    | 132   | 132   | 160   | 160   | 200   | 160    | 75    | 132   | 132   | 150   | 160   | 160   | 160    |
| 90    | 160   | 160   | 200   | 200   | 220   | 185    | 90    | 160   | 160   | 185   | 200   | 220   | 185    | 90    | 160   | 160   | 185   | 200   | 220   | 185    |
| 110   | 200   | 200   | 250   | 250   | 315   | 220    | 110   | 200   | 200   | 250   | 250   | 315   | 220    | 110   | 200   | 200   | 220   | 250   | 315   | 220    |
| 160   | 250   | 250   | 315   | 355   | 355   | 335    | 147   | 250   | 250   | 280   | 315   | 355   | 335    | 150   | 250   | 250   | 295   | 295   | 355   | 280    |
| 200   | 335   | 375   | 400   | 400   | 500   | 450    | 180   | 315   | 335   | 355   | 375   | 500   | 450    | 180   | 315   | 335   | 355   | 375   | 450   | 355    |
| 250   | 450   | 450   | 450   | 500   | 560   | 450    | 200   | 335   | 355   | 375   | 425   | 560   | 450    | 200   | 375   | 355   | 375   | 400   | 475   | 400    |

COORD.



### TeSys Giga 3-pole and 4-pole Advanced contactors for load control only (non motor) – (250 to 1050 A)



High power contactors

| Maximum current (A) ( $\theta \leq 40^\circ\text{C}$ ) | General purpose continuous current (A) | Reference                   |             |             |              |              |              |
|--------------------------------------------------------|----------------------------------------|-----------------------------|-------------|-------------|--------------|--------------|--------------|
| IEC                                                    | UL                                     | Advanced version contactors |             |             |              |              |              |
|                                                        |                                        | AC/DC coil voltage          |             |             |              |              |              |
| AC-1                                                   |                                        | 3-pole                      |             |             | 4-pole       |              |              |
|                                                        |                                        | 24...48 V                   | 48...130 V  | 200...500 V | 24...48 V    | 48...130 V   | 200...500 V  |
| 250                                                    | 210                                    | LC1G115BEEA                 | LC1G115EHEA | LC1G115LSEA | LC1G1154BEEA | LC1G1154EHEA | LC1G1154LSEA |
| 275                                                    | 230                                    | LC1G150BEEA                 | LC1G150EHEA | LC1G150LSEA | LC1G1504BEEA | LC1G1504EHEA | LC1G1504LSEA |
| 305                                                    | 250                                    | LC1G185BEEA                 | LC1G185EHEA | LC1G185LSEA | LC1G1854BEEA | LC1G1854EHEA | LC1G1854LSEA |
| 330                                                    | 290                                    | LC1G225BEEA                 | LC1G225EHEA | LC1G225LSEA | LC1G2254BEEA | LC1G2254EHEA | LC1G2254LSEA |
| 385                                                    | 340                                    | LC1G265BEEA                 | LC1G265EHEA | LC1G265LSEA | LC1G2654BEEA | LC1G2654EHEA | LC1G2654LSEA |
| 440                                                    | 390                                    | LC1G330BEEA                 | LC1G330EHEA | LC1G330LSEA | LC1G3304BEEA | LC1G3304EHEA | LC1G3304LSEA |
| 550                                                    | 490                                    | LC1G400BEEA                 | LC1G400EHEA | LC1G400LSEA | LC1G4004BEEA | LC1G4004EHEA | LC1G4004LSEA |
| 700                                                    | 630                                    | LC1G500BEEA                 | LC1G500EHEA | LC1G500LSEA | LC1G5004BEEA | LC1G5004EHEA | LC1G5004LSEA |
| 1050                                                   | 850                                    | -                           | LC1G630EHEA | LC1G630LSEA | -            | LC1G6304EHEA | LC1G6304LSEA |
| 1050                                                   | 900                                    | -                           | LC1G800EHEA | LC1G800LSEA | -            | LC1G8004EHEA | LC1G8004LSEA |

<sup>(1)</sup> Switching of IE3/IE4 high efficiency squirrel-cage motors.

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Dimensions:  
pages B9/30 to B9/32

Diagrams:  
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| Motor ratings (HP)<br>UL - 3phase |           |           |           |  | Reference<br>Advanced version contactors<br>AC/DC coil voltage<br>3-pole |             |             |
|-----------------------------------|-----------|-----------|-----------|--|--------------------------------------------------------------------------|-------------|-------------|
| 200/208 V                         | 230/240 V | 460/480 V | 575/600 V |  | 24-48 V                                                                  | 48-130 V    | 200-500 V   |
| 30                                | 40        | 75        | 100       |  | LC1G115BEEA                                                              | LC1G115EHEA | LC1G115LSEA |
| 40                                | 50        | 100       | 125       |  | LC1G150BEEA                                                              | LC1G150EHEA | LC1G150LSEA |
| 50                                | 60        | 125       | 150       |  | LC1G185BEEA                                                              | LC1G185EHEA | LC1G185LSEA |
| 60                                | 75        | 150       | 150       |  | LC1G225BEEA                                                              | LC1G225EHEA | LC1G225LSEA |
| 75                                | 100       | 200       | 200       |  | LC1G265BEEA                                                              | LC1G265EHEA | LC1G265LSEA |
| 100                               | 125       | 250       | 300       |  | LC1G330BEEA                                                              | LC1G330EHEA | LC1G330LSEA |
| 125                               | 150       | 300       | 400       |  | LC1G400BEEA                                                              | LC1G400EHEA | LC1G400LSEA |
| 150                               | 200       | 400       | 450       |  | LC1G500BEEA                                                              | LC1G500EHEA | LC1G500LSEA |
| 250                               | 300       | 600       | 700       |  | -                                                                        | LC1G630EHEA | LC1G630LSEA |
| 300                               | 350       | 700       | 800       |  | -                                                                        | LC1G800EHEA | LC1G800LSEA |

COORD.



High power  
contactors

# TeSys Control

Giga High power contactors – Standard – 3-pole and 4-pole

Product references

## TeSys Giga 3-pole Standard contactors – For motor control – (115 to 800 A)



Motor ratings (kW)  $\theta \leq 60^\circ\text{C}$

IEC

AC-3

AC-3e <sup>(1)</sup>

AC-4

| 230 V | 400 V | 415 V | 440 V | 500 V | 690 V | 1000 V | 230 V | 400 V | 415 V | 440 V | 500 V | 690 V | 1000 V | 230 V | 400 V | 415 V | 440 V | 500 V | 690 V | 1000 V |
|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|--------|
| kW    | kW    | kW    | kW    | kW    | kW    | kW     | kW    | kW    | kW    | kW    | kW    | kW    | kW     | kW    | kW    | kW    | kW    | kW    | kW    | kW     |
| 30    | 55    | 55    | 75    | 75    | 75    | -      | 30    | 55    | 55    | 75    | 75    | 75    | -      | 30    | 55    | 55    | 65    | 65    | 75    | -      |
| 37    | 75    | 75    | 90    | 90    | 90    | 75     | 37    | 75    | 75    | 90    | 90    | 90    | 75     | 37    | 75    | 75    | 80    | 90    | 90    | 75     |
| 55    | 90    | 90    | 110   | 110   | 110   | 75     | 55    | 90    | 90    | 110   | 110   | 110   | 75     | 55    | 90    | 90    | 100   | 110   | 110   | 75     |
| 55    | 110   | 110   | 132   | 132   | 160   | 132    | 55    | 110   | 110   | 132   | 132   | 160   | 132    | 55    | 110   | 110   | 129   | 132   | 132   | 110    |
| 75    | 132   | 132   | 160   | 160   | 200   | 160    | 75    | 132   | 132   | 160   | 160   | 200   | 160    | 75    | 132   | 132   | 150   | 160   | 160   | 160    |
| 90    | 160   | 160   | 200   | 200   | 220   | 185    | 90    | 160   | 160   | 185   | 200   | 220   | 185    | 90    | 160   | 160   | 185   | 200   | 220   | 185    |
| 110   | 200   | 200   | 250   | 250   | 315   | 220    | 110   | 200   | 200   | 250   | 250   | 315   | 220    | 110   | 200   | 200   | 220   | 250   | 315   | 220    |
| 160   | 250   | 250   | 315   | 355   | 355   | 335    | 147   | 250   | 250   | 280   | 315   | 355   | 335    | 150   | 250   | 250   | 295   | 295   | 355   | 280    |
| 200   | 335   | 375   | 400   | 400   | 500   | 450    | 180   | 315   | 335   | 355   | 375   | 500   | 450    | 180   | 315   | 335   | 355   | 375   | 450   | 355    |
| 250   | 450   | 450   | 450   | 500   | 560   | 450    | 200   | 335   | 355   | 375   | 425   | 560   | 450    | 200   | 375   | 355   | 375   | 400   | 475   | 400    |

COORD.



## TeSys Giga 3-pole and 4-pole Standard contactors for load control only (non motor) – (250 to 1050 A)



High power contactors

| Maximum current (A) ( $\theta \leq 40^\circ\text{C}$ ) | General purpose continuous current (A) | Reference                   |             |              |              |
|--------------------------------------------------------|----------------------------------------|-----------------------------|-------------|--------------|--------------|
| IEC                                                    | UL                                     | Standard version contactors |             |              |              |
|                                                        |                                        | AC/DC coil voltage          |             |              |              |
|                                                        |                                        | 3-pole                      |             | 4-pole       |              |
| AC-1                                                   |                                        | 48...130 V                  | 100...250 V | 48...130 V   | 100...250 V  |
| 250                                                    | 210                                    | LC1G115EHEN                 | LC1G115KUEN | LC1G1154EHEN | LC1G1154KUEN |
| 275                                                    | 230                                    | LC1G150EHEN                 | LC1G150KUEN | LC1G1504EHEN | LC1G1504KUEN |
| 305                                                    | 250                                    | LC1G185EHEN                 | LC1G185KUEN | LC1G1854EHEN | LC1G1854KUEN |
| 330                                                    | 290                                    | LC1G225EHEN                 | LC1G225KUEN | LC1G2254EHEN | LC1G2254KUEN |
| 385                                                    | 340                                    | LC1G265EHEN                 | LC1G265KUEN | LC1G2654EHEN | LC1G2654KUEN |
| 440                                                    | 390                                    | LC1G330EHEN                 | LC1G330KUEN | LC1G3304EHEN | LC1G3304KUEN |
| 550                                                    | 490                                    | LC1G400EHEN                 | LC1G400KUEN | LC1G4004EHEN | LC1G4004KUEN |
| 700                                                    | 630                                    | LC1G500EHEN                 | LC1G500KUEN | LC1G5004EHEN | LC1G5004KUEN |
| 1050                                                   | 850                                    | LC1G630EHEN                 | LC1G630KUEN | LC1G6304EHEN | LC1G6304KUEN |
| 1050                                                   | 900                                    | LC1G800EHEN                 | LC1G800KUEN | LC1G8004EHEN | LC1G8004KUEN |

<sup>(1)</sup> Switching of IE3/IE4 high efficiency squirrel-cage motors.

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Dimensions:  
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|  | Motor ratings (HP)<br>UL- 3phase |           |           |           | Reference<br>Standard version contactors<br>AC/DC coil voltage<br>3-pole |             |
|--|----------------------------------|-----------|-----------|-----------|--------------------------------------------------------------------------|-------------|
|  | 200/208 V                        | 230/240 V | 460/480 V | 575/600 V | 48-130 V                                                                 | 100-250 V   |
|  | 30                               | 40        | 75        | 100       | LC1G115EHEN                                                              | LC1G115KUEN |
|  | 40                               | 50        | 100       | 125       | LC1G150EHEN                                                              | LC1G150KUEN |
|  | 50                               | 60        | 125       | 150       | LC1G185EHEN                                                              | LC1G185KUEN |
|  | 60                               | 75        | 150       | 150       | LC1G225EHEN                                                              | LC1G225KUEN |
|  | 75                               | 100       | 200       | 200       | LC1G265EHEN                                                              | LC1G265KUEN |
|  | 100                              | 125       | 250       | 300       | LC1G330EHEN                                                              | LC1G330KUEN |
|  | 125                              | 150       | 300       | 400       | LC1G400EHEN                                                              | LC1G400KUEN |
|  | 150                              | 200       | 400       | 450       | LC1G500EHEN                                                              | LC1G500KUEN |
|  | 250                              | 300       | 600       | 700       | LC1G630EHEN                                                              | LC1G630KUEN |
|  | 300                              | 350       | 700       | 800       | LC1G800EHEN                                                              | LC1G800KUEN |

COORD.

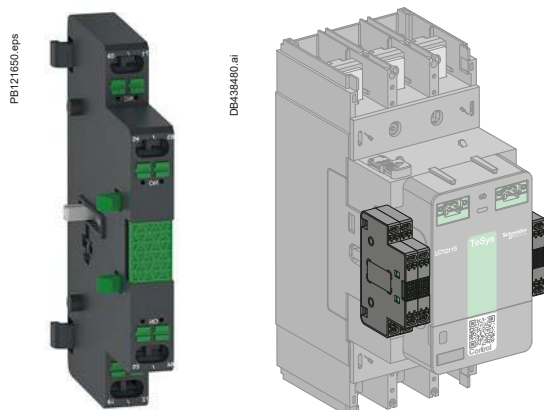


High power  
contactors

# TeSys Control

## Giga High power contactors – Auxiliary contact modules

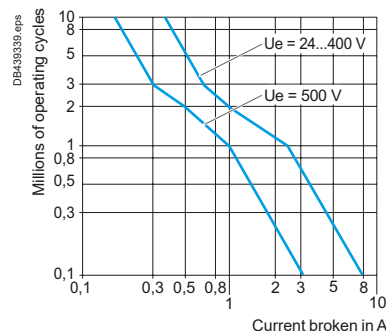
### Product references



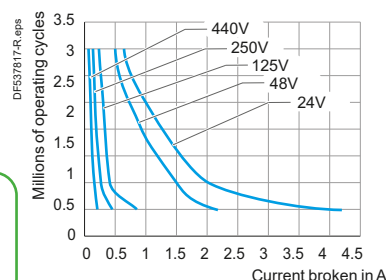
LAG8N113

Side mounting –  
maximum 2 per side

COORD.



AC-15



DC-13

High power  
contactors

### Auxiliary contact modules

Auxiliary contacts give an indication of the contactor status. They can be used for remote visual signaling, alarming, electrical locking, relay activation, etc...

Each contactor is equipped with 1 NO + 1 NC auxiliary contact block as standard.

■ Mechanically linked mirror contacts

The NC contact of the auxiliary contact block is mirror contact in conformity to IEC 60947-4-1 and it is mechanically linked to reliably represent the state of the main power contacts and wherever auxiliary contact state reliability is essential. The main power contacts and the NC of the auxiliary contact can't be closed at the same time.

Types of connections:

■ Push-in type.

### Wide contactor compatibility

TeSys Giga auxiliary contact module is compatible with the whole range of TeSys Giga High power contactors .

Each TeSys Giga Contactor can be equipped with up to 4 auxiliary contact modules.

### Electrical characteristics

| Characteristics           |                                |
|---------------------------|--------------------------------|
| Rated thermal current (A) | 10                             |
| Minimum load              | 1 mA at 17 V DC                |
| Contact reliability       | Failure rate <10 <sup>-8</sup> |

### Operational power of contacts conforming to IEC 60947-5-1 - Electrical durability

#### category AC-15

| Operating cycles | V  | 24 | 48  | 115 | 230 | 400 | 500 |
|------------------|----|----|-----|-----|-----|-----|-----|
| 1 million        | VA | 60 | 120 | 280 | 560 | 800 | 500 |
| 2 million        | VA | 24 | 48  | 115 | 230 | 400 | 250 |
| 3 million        | VA | 16 | 32  | 80  | 160 | 280 | 150 |

#### category DC-13

| Operating cycles | V | 24  | 48  | 125 | 250 | 440 |
|------------------|---|-----|-----|-----|-----|-----|
| 0.5 million      | W | 100 | 100 | 105 | 110 | 88  |
| 1 million        | W | 48  | 72  | 54  | 54  | 55  |
| 2 million        | W | 24  | 36  | 38  | 38  | 39  |
| 3 million        | W | 16  | 24  | 25  | 25  | 33  |

### Connector characteristics

| Push-in connection - Dual input |                               |                 | Min/max c.s.a. |
|---------------------------------|-------------------------------|-----------------|----------------|
| Flexible cable per input        | 1 conductor with cable end    | mm <sup>2</sup> | 0.75...2.5     |
|                                 | 2 conductors with Dual Sleeve | mm <sup>2</sup> | 0.75...2.5     |
|                                 | Stripping length              | mm              | 10             |
| Solid cable per input           | 1 conductor                   | mm <sup>2</sup> | 0.75...2.5     |
|                                 | Stripping length              | mm              | 12             |

### Auxiliary contact modules

| Description              | Terminal type | Position                      | Type of contacts | Sold in lots of | Reference                |
|--------------------------|---------------|-------------------------------|------------------|-----------------|--------------------------|
| Auxiliary contact module | Push-in       | 1 <sup>st</sup> left or right | 1 NO + 1 NC      | 1               | LAG8N113P <sup>(1)</sup> |
|                          |               |                               | 2 NO             | 1               | LAG8N203P                |
|                          |               | 2 <sup>nd</sup> left or right | 1 NO + 1 NC      | 1               | LAG8N113                 |
|                          |               |                               | 2 NO             | 1               | LAG8N203                 |

(1) Always supplied with TeSys Giga LC1G contactors, fitted to the right side lateral face.

## Power terminals

### ‘Cable Memory’ connection blocks

Cables or busbars can be connected to the contactor by means of the optional cable memory connection blocks. When the contactor is removed for maintenance, the cables or busbars remain connected to these connection blocks, making reinstallation faster and easier.



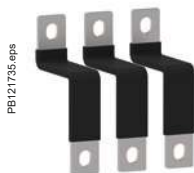
LA9G3101

| Cable memory <sup>(1)</sup>                                        |                            |                    |           |
|--------------------------------------------------------------------|----------------------------|--------------------|-----------|
| Description                                                        | Compatible with contactors | Quantity<br>Set of | Reference |
| 'Cable memory' for 3-pole contactors – for holding cables in place | LC1G115...LC1G225          | 2                  | LA9G3101  |
|                                                                    | LC1G265...LC1G500          | 2                  | LA9G3102  |
|                                                                    | LC1G630...LC1G800          | 2                  | LA9G3103  |
| 'Cable memory' for 4-pole contactors – for holding cables in place | LC1G115...LC1G225          | 2                  | LA9G4101  |
|                                                                    | LC1G265...LC1G500          | 2                  | LA9G4102  |
|                                                                    | LC1G630...LC1G800          | 2                  | LA9G4103  |

(1) 'Cable memory' connection blocks are always supplied with Advanced contactor version.

### Flexible terminal extensions

Flexible connecting bars to connect TeSys Giga High power contactors with MCCBs mounted in the same plane and orientation. These bars can be used along with Advanced or Standard version contactors. They help to get a quick and easy connection between contactor and MCCB with saving in installation time.



LA9G3111

| 'Flexible terminal extensions' for MCCBs |                            |                              |                    |           |
|------------------------------------------|----------------------------|------------------------------|--------------------|-----------|
| Description                              | Compatible with contactors | To connect with NSX/NS MCCBs | Quantity<br>Set of | Reference |
| Flexible terminal extensions 3-pole      | LC1G115...LC1G225          | NSX100...NSX250              | 3                  | LA9G3111  |
|                                          | LC1G265...LC1G500          | NSX400...NSX630              | 3                  | LA9G3112  |
|                                          | LC1G630...LC1G800          | NS800...NS1250               | 3                  | LA9G3113  |
| Flexible terminal extensions 4-pole      | LC1G115...LC1G225          | NSX100...NSX250              | 4                  | LA9G4111  |
|                                          | LC1G265...LC1G500          | NSX400...NSX630              | 4                  | LA9G4112  |
|                                          | LC1G630...LC1G800          | NS800...NS1250               | 4                  | LA9G4113  |

### Straight terminal extensions



LA9G3601

| Description                 | Suitable for | Compatible with contactors | Quantity<br>Set of | Reference |
|-----------------------------|--------------|----------------------------|--------------------|-----------|
| Straight terminal extension | 3P           | LC1G115...LC1G225          | 3                  | LA9G3601  |
|                             |              | LC1G265...LC1G500          | 3                  | LA9G3602  |
|                             |              | LC1G630...LC1G800          | 3                  | LA9G3603  |
|                             | 4P           | LC1G115...LC1G225          | 4                  | LA9G4601  |
|                             |              | LC1G265...LC1G500          | 4                  | LA9G4602  |
|                             |              | LC1G630...LC1G800          | 4                  | LA9G4603  |

### Right angled terminal extensions



LA9G3682

| Description                           | Suitable for | Compatible with contactors | Quantity<br>Set of | Reference |
|---------------------------------------|--------------|----------------------------|--------------------|-----------|
| Right angled side terminal extension  | 3P           | LC1G115...LC1G225          | 3                  | LA9G3661  |
|                                       |              | LC1G265...LC1G500          | 3                  | LA9G3662  |
|                                       |              | LC1G630...LC1G800          | 3                  | LA9G3663  |
| Right angled large terminal extension | 3P           | LC1G115...LC1G225          | 3                  | LA9G3671  |
|                                       |              | LC1G265...LC1G500          | 3                  | LA9G3672  |
|                                       |              | LC1G630...LC1G800          | 3                  | LA9G3673  |
| Right angled rear terminal extension  | 3P           | LC1G115...LC1G225          | 3                  | LA9G3681  |
|                                       |              | LC1G265...LC1G500          | 3                  | LA9G3682  |
|                                       |              | LC1G630...LC1G800          | 3                  | LA9G3683  |

### Edgewise terminal extensions



LA9G3631

| Description                 | Suitable for | Compatible with contactors | Quantity<br>Set of | Reference |
|-----------------------------|--------------|----------------------------|--------------------|-----------|
| Edgewise terminal extension | 3P           | LC1G115...LC1G225          | 3                  | LA9G3631  |
|                             |              | LC1G265...LC1G500          | 3                  | LA9G3632  |
|                             |              | LC1G630...LC1G800          | 3                  | LA9G3633  |
|                             | 4P           | LC1G115...LC1G225          | 4                  | LA9G4631  |
|                             |              | LC1G265...LC1G500          | 4                  | LA9G4632  |
|                             |              | LC1G630...LC1G800          | 4                  | LA9G4633  |



LA9G3611



LA9G3613



LA9G4711

### Power terminals

#### Spreader kits

| Description   | Suitable for | Compatible with contactors | Increase of Pole pitch | Quantity Set of | Reference |
|---------------|--------------|----------------------------|------------------------|-----------------|-----------|
| Spreader kits | 3P           | LC1G115...LC1G225          | 35 to 45 mm            | 3               | LA9G3611  |
|               |              | LC1G265...LC1G500          | 45 to 70 mm            | 3               | LA9G3612  |
|               | 4P           | LC1G115...LC1G225          | 35 to 45 mm            | 4               | LA9G4611  |
|               |              | LC1G265...LC1G500          | 45 to 70 mm            | 4               | LA9G4612  |

#### Terminal extensions for larger power connections

| Description          | Suitable for | Compatible with contactors | Power connection size | Quantity Set of | Reference |
|----------------------|--------------|----------------------------|-----------------------|-----------------|-----------|
| Terminal connections | 3P           | LC1G400...LC1G500          | 50 mm width           | 3               | LA9G3613  |
|                      |              | LC1G630...LC1G800          | 80 mm width           | 3               | LA9G3614  |
|                      | 4P           | LC1G400...LC1G500          | 50 mm width           | 4               | LA9G4613  |
|                      |              | LC1G630...LC1G800          | 80 mm width           | 4               | LA9G4614  |

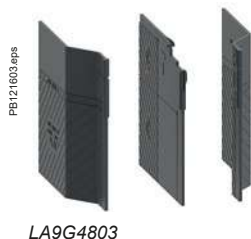
#### Spreader kits suitable for box type connectors

| Description                      | Suitable for | Compatible with contactors | Increase of Pole pitch | Suitable for box connectors | Quantity Set of | Reference |
|----------------------------------|--------------|----------------------------|------------------------|-----------------------------|-----------------|-----------|
| Spreader kits for box connectors | 3P           | LC1G115...LC1G225          | 35 to 45 mm            | DZ2 FJ1/FH1 & AL400         | 3               | LA9G3711  |
|                                  |              | LC1G265...LC1G500          | 45 to 70 mm            | DZ2 FJ1/FK1 & AL400/AL600   | 3               | LA9G3712  |
|                                  |              | LC1G630...LC1G800          | 70 to 80 mm            | DZ2 FL1/FK1 & Type S/AL600  | 3               | LA9G3714  |
|                                  | 4P           | LC1G115...LC1G225          | 35 to 45 mm            | DZ2 FJ1/FH1 & AL400         | 4               | LA9G4711  |
|                                  |              | LC1G265...LC1G500          | 45 to 70 mm            | DZ2 FJ1/FK1 & AL400/AL600   | 4               | LA9G4712  |
|                                  |              | LC1G630...LC1G800          | 70 to 80 mm            | DZ2 FL1/FK1 & Type S/AL600  | 4               | LA9G4714  |

# TeSys Control

## Giga High power contactors – Power wiring accessories

### Product references



### Power terminal accessories

#### Phase separators

| Description                     | Suitable for                 | Compatible with contactors | Quantity<br>Set of | Reference               |
|---------------------------------|------------------------------|----------------------------|--------------------|-------------------------|
| Phase separators <sup>(1)</sup> | 3P                           | LC1G115...LC1G800          | 2                  | LA9G3801                |
|                                 | 4P                           | LC1G115...LC1G800          | 3                  | LA9G4801                |
|                                 | 3P – with 50/80 mm spreaders | LC1G400...LC1G800          | 2                  | LA9G3803 <sup>(2)</sup> |
|                                 | 4P – with 50/80 mm spreaders | LC1G400...LC1G800          | 3                  | LA9G4803 <sup>(3)</sup> |



#### Terminal shrouds

| Description                           | Compatible with contactors | Quantity<br>Set of | Reference |          |
|---------------------------------------|----------------------------|--------------------|-----------|----------|
|                                       |                            |                    | 3P        | 4P       |
| IP 20 Terminal shrouds <sup>(1)</sup> | LC1G115...LC1G225          | 1                  | LA9G3701  | LA9G4701 |
|                                       | LC1G265...LC1G500          | 1                  | LA9G3702  | LA9G4702 |
|                                       | LC1G630...LC1G800          | 1                  | LA9G3703  | LA9G4703 |

### IP20 Lug cover for connection kits <sup>(4)</sup>

Lug covers are used along with IP 20 terminal shrouds and star-delta, reverser and changeover connection kit assemblies to improve insulation of the coupling bars and achieve IP 20 for the complete assembly.

#### IP20 Lug cover for connection kits

| Description     | Suitable for | Compatible with contactors       | Quantity<br>Set of | Reference |
|-----------------|--------------|----------------------------------|--------------------|-----------|
| IP 20 Lug cover | 3P           | LC1G115...LC1G800 <sup>(4)</sup> | 6                  | LA9G3707  |
|                 | 4P           | LC1G115...LC1G800 <sup>(4)</sup> | 8                  | LA9G4707  |



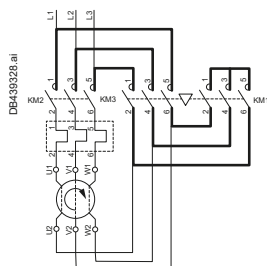
#### Lugs for cable set

| Description    | Compatible with contactors | Cable section       | Reference       |                 |
|----------------|----------------------------|---------------------|-----------------|-----------------|
|                |                            |                     | Set of 3 for 3P | Set of 4 for 4P |
| Lugs for cable | LC1G115...LC1G225          | 120 mm <sup>2</sup> | LV429252        | LV429256        |
|                | LC1G115...LC1G225          | 150 mm <sup>2</sup> | LV429253        | LV429257        |
|                | LC1G115...LC1G225          | 185 mm <sup>2</sup> | LV429254        | LV429258        |
|                | LC1G265...LC1G500          | 240 mm <sup>2</sup> | LV432500        | LV432501        |
|                | LC1G265...LC1G500          | 300 mm <sup>2</sup> | LV432502        | LV432503        |



### Star-Delta (Wye-Delta) connection kits <sup>(5)</sup>

| Description                                                 | Suitable for | for Line (KM2) and Delta (KM3) contactor | + Star contactor (KM1) | Reference |
|-------------------------------------------------------------|--------------|------------------------------------------|------------------------|-----------|
| Connection kit: bars for Line-Delta-Star contactor assembly | 3P           | LC1G115...LC1G225                        | LC1G115...LC1G225      | LA9GQQ330 |
|                                                             |              | LC1G265...LC1G500                        | LC1G115...LC1G225      | LA9GSQ330 |
|                                                             |              | LC1G265...LC1G500                        | LC1G265...LC1G500      | LA9GSS330 |
|                                                             |              | LC1G630...LC1G800                        | LC1G265...LC1G500      | LA9GTS330 |
|                                                             |              | LC1G630...LC1G800                        | LC1G630...LC1G800      | LA9GTT330 |
| with cable memory kit                                       | 3P           | LC1G265...LC1G500                        | LC1G115...LC1G225      | LA9GSQ331 |
|                                                             |              | LC1G630...LC1G800                        | LC1G265...LC1G500      | LA9GTS331 |



### Mechanical interlock

| Description                                            | Suitable for | Compatible with contactors |               | Reference |
|--------------------------------------------------------|--------------|----------------------------|---------------|-----------|
|                                                        |              | Contactor 1                | Contactor 2   |           |
| Mechanical interlock between contactors <sup>(6)</sup> | 3P and 4P    | LC1G115...225              | LC1G115...225 | LA9G970   |
|                                                        |              | LC1G265...500              | LC1G265...500 | LA9G970   |
|                                                        |              | LC1G265...500              | LC1G115...225 | LA9G971   |
|                                                        | 3P           | LC1G630...800              | LC1G265...500 | LA9G972   |
|                                                        |              | LC1G630...800              | LC1G630...800 | LA9G973   |
|                                                        |              |                            |               |           |

**Note:** RE17RMMWS timer to be used for Star-Delta starter application.

<sup>(1)</sup> Either phase separators or terminal shrouds can only be mounted. Phase separators or terminal shrouds are mandatory for operational voltage,  $U_e \geq 690$  V.

<sup>(2)</sup> To be used with LA9G3613 and LA9G3614.

<sup>(3)</sup> To be used with LA9G4613 and LA9G4614.

<sup>(4)</sup> 2 sets of IP20 lug covers are needed for assemblies with LC1G630 and LC1G800 contactors.

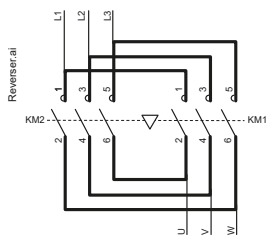
<sup>(5)</sup> UL listed.

<sup>(6)</sup> Maximum 3 auxiliary contacts can be installed between 2 contactors with mechanical interlock kit.

High power  
contactors



LA9G3760

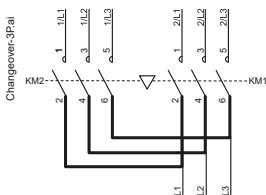


#### Reverser connection kits

| Description                                          | Suitable for | Compatible with contactors | Reference |
|------------------------------------------------------|--------------|----------------------------|-----------|
| Connection kit: bars for reverser contactor assembly | 3P           | LC1G115...LC1G225          | LA9G3760  |
|                                                      |              | LC1G265...LC1G500          | LA9G3761  |
|                                                      |              | LC1G630...LC1G800          | LA9G3762  |

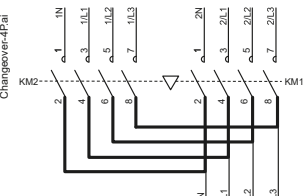


LA9G3750



#### Changeover connection kits

| Description                                            | Suitable for | Compatible with contactors | Reference |
|--------------------------------------------------------|--------------|----------------------------|-----------|
| Connection kit: bars for changeover contactor assembly | 3P           | LC1G115...LC1G225          | LA9G3750  |
|                                                        |              | LC1G265...LC1G500          | LA9G3751  |
|                                                        |              | LC1G630...LC1G800          | LA9G3752  |
|                                                        | 4P           | LC1G115...LC1G225          | LA9G4750  |
|                                                        |              | LC1G265...LC1G500          | LA9G4751  |
|                                                        |              | LC1G630...LC1G800          | LA9G4752  |



RE17RMMWS

#### Modular timer relay for star-delta starters

- 8 A, 1 CO, multifunction with spring terminals, 12...240 V AC/DC
- 17.5 mm width same size as a 1-pole circuit breaker
- Covers 0.1 s to 100 h timing
- Transparent cover to protect settings from being tampered
- Multi functional gives flexibility in maintenance

#### Modular timer relay for star-delta starters

| Description                   | Suitable for | Compatible with contactors | Reference |
|-------------------------------|--------------|----------------------------|-----------|
| Harmony, Modular timing relay | 3P           | LC1G115...LC1G800          | RE17RMMWS |



LA9GRFB1



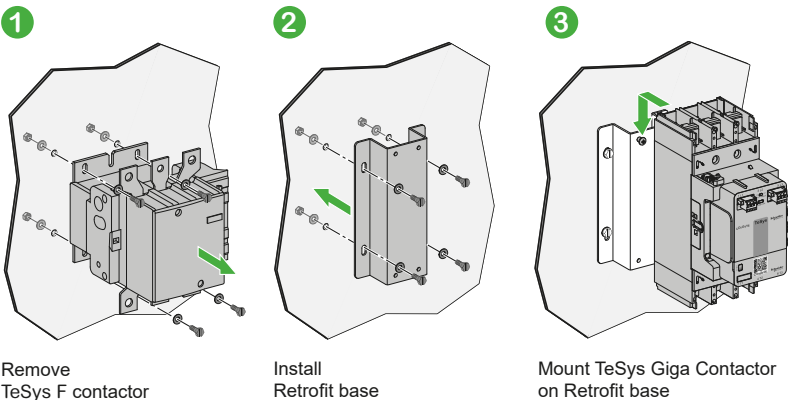
LA9GRFB2



LA9GRFB3

Retrofit bases

- Suitable for 3 pole contactors
- Retrofit bases to replace similar ratings of TeSys F contactors with TeSys Giga High power contactors
- Enables quick and simple replacement in the existing installation
- 3 references to cover ranges from LC1F115 to F800



TeSys Giga retrofit bases are designed for integrating new TeSys Giga High power contactors into installations using TeSys F contactors. The retrofit bases help reduce replacement and reinstallation time when you upgrade your system with the new range of contactors. The bases come in two frame sizes.

Retrofit bases

| Description                                  | Reference                           |          |
|----------------------------------------------|-------------------------------------|----------|
| Accessory used to replace TeSys F contactors | LC1F115-225 replaced by LC1G115-225 | LA9GRFB1 |
|                                              | LC1F265-500 replaced by LC1G265-500 | LA9GRFB2 |
|                                              | LC1F630-800 replaced by LC1G630-800 | LA9GRFB3 |

# TeSys Control

## Giga High power contactors – Spare parts

### Product references



LX1G3QLSEA

### Control module

**Wide band electronic control**  
**24 V...500 V 50/60 Hz or DC control input**  
**Advanced and standard versions**  
**Accessible from the front for easy and quick replacement**

The control module is needed for the operation of the contactor.

It performs the following functions:

- proper functioning of contactor based on the input control voltage
- monitoring and diagnostics of the pole condition
- generation of signaling commands.

The range of control modules is organized:

- per contactor size and for each rating,
- per control voltage range.

Each module has connectors for connecting:

- the coil control A1, A2 circuit & PLC output control (advanced version)
- pole status and diagnostic signaling circuits.



Control module replacement  
on a 3-pole contactor

### Control modules

| Description                                | For contactors |                   | References per voltage range<br>(V AC/DC) |            |            |
|--------------------------------------------|----------------|-------------------|-------------------------------------------|------------|------------|
|                                            |                |                   | 24 - 48                                   | 48 - 130   | 200 - 500  |
| Control modules for<br>Advanced contactors | 3-pole         | LC1G115...LC1G225 | LX1G3QBEEA                                | LX1G3QEHEA | LX1G3QLSEA |
|                                            |                | LC1G265...LC1G330 | LX1G3RBEEA                                | LX1G3REHEA | LX1G3RLSEA |
|                                            |                | LC1G400...LC1G500 | LX1G3SBEEA                                | LX1G3SEHEA | LX1G3SLSEA |
|                                            |                | LC1G630...LC1G800 | -                                         | LX1G3TEHEA | LX1G3TLSEA |
|                                            | 4-pole         | LC1G115...LC1G225 | LX1G4QBEEA                                | LX1G4QEHEA | LX1G4QLSEA |
|                                            |                | LC1G265...LC1G330 | LX1G4RBEEA                                | LX1G4REHEA | LX1G4RLSEA |
|                                            |                | LC1G400...LC1G500 | LX1G4SBEEA                                | LX1G4SEHEA | LX1G4SLSEA |
|                                            |                | LC1G630...LC1G800 | -                                         | LX1G4TEHEA | LX1G4TLSEA |
| Control modules for<br>Standard contactors | 3-pole         | LC1G115...LC1G225 | LX1G3QEHEN                                | LX1G3QKUEN |            |
|                                            |                | LC1G265...LC1G330 | LX1G3REHEN                                | LX1G3RKUEN |            |
|                                            |                | LC1G400...LC1G500 | LX1G3SEHEN                                | LX1G3SKUEN |            |
|                                            |                | LC1G630...LC1G800 | LX1G3TEHEN                                | LX1G3TKUEN |            |
|                                            | 4-pole         | LC1G115...LC1G225 | LX1G4QEHEN                                | LX1G4QKUEN |            |
|                                            |                | LC1G265...LC1G330 | LX1G4REHEN                                | LX1G4RKUEN |            |
|                                            |                | LC1G400...LC1G500 | LX1G4SEHEN                                | LX1G4SKUEN |            |
|                                            |                | LC1G630...LC1G800 | LX1G4TEHEN                                | LX1G4TKUEN |            |

### Connector for control module

| Description                                   | Reference |
|-----------------------------------------------|-----------|
| Push-in terminal connector for control module | LA9G81    |

### Remote wear diagnostic (RWD) module

| Description                                                   | Reference               |
|---------------------------------------------------------------|-------------------------|
| Remote wear diagnostic module for TeSys Giga Contactor - 1 NO | LA9GRD10 <sup>(1)</sup> |
| Remote wear diagnostic module for TeSys Giga Contactor - 1 NC | LA9GRD01 <sup>(1)</sup> |

<sup>(1)</sup> Remote Wear Diagnostic (RWD) Module, can be installed and used only in Advanced version.

High power  
contactors



LA9G81



LA9GRD10



Switching module kits

## Replaceable switching modules

- Innovative contact switching modules for TeSys Giga High power contactors
- Replace worn-out poles with a new switching module in minutes, without having to disassemble the whole product
- No special tools are needed for the replacement.

### TeSys Giga - Switching modules for TeSys Giga High power contactors , Advanced and Standard versions

| Description                     | For contactors |                   | Quantity<br>Set of | Reference |
|---------------------------------|----------------|-------------------|--------------------|-----------|
| 3 or 4 switching<br>module kits | 3-pole         | LC1G115...LC1G225 | 3                  | LA9G3QA   |
|                                 |                | LC1G265...LC1G330 | 3                  | LA9G3RA   |
|                                 |                | LC1G400...LC1G500 | 3                  | LA9G3SA   |
|                                 |                | LC1G630...LC1G800 | 3                  | LA9G3TA   |
|                                 | 4-pole         | LC1G115...LC1G225 | 4                  | LA9G4QA   |
|                                 |                | LC1G265...LC1G330 | 4                  | LA9G4RA   |
|                                 |                | LC1G400...LC1G500 | 4                  | LA9G4SA   |
|                                 |                | LC1G630...LC1G800 | 4                  | LA9G4TA   |

**Note:** In the event of replacement, replace all switching modules. After replacement, change the position of RESET button on the control module from A to B or B to A.

# TeSys Control

## Giga High power contactors

### Product references

|          |           |              |              |             |
|----------|-----------|--------------|--------------|-------------|
| LA9G3101 | LA9G3TA   | LA9GTT330    | LC1G265BEEA  | LC1G800LSEA |
| LA9G3102 | LA9G4101  | LAG8N113     | LC1G265EHEA  | LV429252    |
| LA9G3103 | LA9G4102  | LAG8N113P    | LC1G265EHEN  | LV429253    |
| LA9G3111 | LA9G4103  | LAG8N203     | LC1G265KUEN  | LV429254    |
| LA9G3112 | LA9G4111  | LAG8N203P    | LC1G265LSEA  | LV429256    |
| LA9G3113 | LA9G4112  | LC1G1154BEEA | LC1G3304BEEA | LV429257    |
| LA9G3601 | LA9G4113  | LC1G1154EHEA | LC1G3304EHEA | LV429258    |
| LA9G3602 | LA9G4601  | LC1G1154EHEN | LC1G3304EHEN | LV432500    |
| LA9G3603 | LA9G4602  | LC1G1154KUEN | LC1G3304KUEN | LV432501    |
| LA9G3611 | LA9G4603  | LC1G1154LSEA | LC1G3304LSEA | LV432502    |
| LA9G3612 | LA9G4611  | LC1G115BEEA  | LC1G330BEEA  | LV432503    |
| LA9G3613 | LA9G4612  | LC1G115EHEA  | LC1G330EHEA  | LX1G3QBEEA  |
| LA9G3614 | LA9G4613  | LC1G115EHEN  | LC1G330EHEN  | LX1G3QEHEA  |
| LA9G3631 | LA9G4614  | LC1G115KUEN  | LC1G330KUEN  | LX1G3QEHEN  |
| LA9G3632 | LA9G4631  | LC1G115LSEA  | LC1G330LSEA  | LX1G3QKUEN  |
| LA9G3633 | LA9G4632  | LC1G1504BEEA | LC1G4004BEEA | LX1G3QLSEA  |
| LA9G3650 | LA9G4633  | LC1G1504EHEA | LC1G4004EHEA | LX1G3RBEEA  |
| LA9G3651 | LA9G4701  | LC1G1504EHEN | LC1G4004EHEN | LX1G3REHEA  |
| LA9G3652 | LA9G4702  | LC1G1504KUEN | LC1G4004KUEN | LX1G3REHEN  |
| LA9G3653 | LA9G4703  | LC1G1504LSEA | LC1G4004LSEA | LX1G3RKUEN  |
| LA9G3661 | LA9G4707  | LC1G150BEEA  | LC1G400BEEA  | LX1G3RLSEA  |
| LA9G3662 | LA9G4711  | LC1G150EHEA  | LC1G400EHEA  | LX1G3SBEEA  |
| LA9G3663 | LA9G4712  | LC1G150EHEN  | LC1G400EHEN  | LX1G3SEHEA  |
| LA9G3671 | LA9G4714  | LC1G150KUEN  | LC1G400KUEN  | LX1G3SEHEN  |
| LA9G3672 | LA9G4750  | LC1G150LSEA  | LC1G400LSEA  | LX1G3SKUEN  |
| LA9G3673 | LA9G4751  | LC1G1854BEEA | LC1G5004BEEA | LX1G3SLSEA  |
| LA9G3681 | LA9G4752  | LC1G1854EHEA | LC1G5004EHEA | LX1G3TEHEA  |
| LA9G3682 | LA9G4801  | LC1G1854EHEN | LC1G5004EHEN | LX1G3TEHEN  |
| LA9G3683 | LA9G4803  | LC1G1854KUEN | LC1G5004KUEN | LX1G3TKUEN  |
| LA9G3701 | LA9G4QA   | LC1G1854LSEA | LC1G5004LSEA | LX1G3TLSEA  |
| LA9G3702 | LA9G4RA   | LC1G185BEEA  | LC1G500BEEA  | LX1G4QBEEA  |
| LA9G3703 | LA9G4SA   | LC1G185EHEA  | LC1G500EHEA  | LX1G4QEHEA  |
| LA9G3704 | LA9G4TA   | LC1G185EHEN  | LC1G500EHEN  | LX1G4QEHEN  |
| LA9G3705 | LA9G81    | LC1G185KUEN  | LC1G500KUEN  | LX1G4QKUEN  |
| LA9G3706 | LA9G82    | LC1G185LSEA  | LC1G500LSEA  | LX1G4QLSEA  |
| LA9G3707 | LA9G970   | LC1G2254BEEA | LC1G6304EHEA | LX1G4RBEEA  |
| LA9G3711 | LA9G971   | LC1G2254EHEA | LC1G6304EHEN | LX1G4REHEA  |
| LA9G3712 | LA9G972   | LC1G2254EHEN | LC1G6304KUEN | LX1G4REHEN  |
| LA9G3714 | LA9G973   | LC1G2254KUEN | LC1G6304LSEA | LX1G4RKUEN  |
| LA9G3750 | LA9GQQ330 | LC1G2254LSEA | LC1G630EHEA  | LX1G4RLSEA  |
| LA9G3751 | LA9GRD01  | LC1G225BEEA  | LC1G630EHEN  | LX1G4SBEEA  |
| LA9G3752 | LA9GRD10  | LC1G225EHEA  | LC1G630KUEN  | LX1G4SEHEA  |
| LA9G3760 | LA9GRFB1  | LC1G225EHEN  | LC1G630LSEA  | LX1G4SEHEN  |
| LA9G3761 | LA9GRFB2  | LC1G225KUEN  | LC1G8004EHEA | LX1G4SKUEN  |
| LA9G3762 | LA9GRFB3  | LC1G225LSEA  | LC1G8004EHEN | LX1G4SLSEA  |
| LA9G3801 | LA9GSQ330 | LC1G2654BEEA | LC1G8004KUEN | LX1G4TEHEA  |
| LA9G3803 | LA9GSQ331 | LC1G2654EHEA | LC1G8004LSEA | LX1G4TEHEN  |
| LA9G3QA  | LA9GSS330 | LC1G2654EHEN | LC1G800EHEA  | LX1G4TKUEN  |
| LA9G3RA  | LA9GTS330 | LC1G2654KUEN | LC1G800EHEN  | LX1G4TLSEA  |
| LA9G3SA  | LA9GTS331 | LC1G2654LSEA | LC1G800KUEN  |             |

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This document is current.  Click on the product reference to get the most recent availability status (hyperlink to [se.com](https://www.se.com) product datasheet).  
If your product variant is no longer available, please consult your distributor or regional sales office.

## Technical Data for Designers

### Contents

TeSys Giga High power contactors:

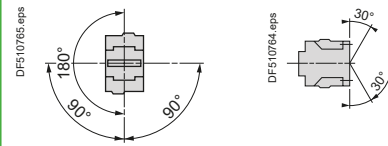
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# TeSys Control

## Giga High power contactors

### Characteristics

| Environment                                                              |                                                                                      |    |    |                                                                                                         |                |                |
|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----|----|---------------------------------------------------------------------------------------------------------|----------------|----------------|
| Contactor type                                                           |                                                                                      |    |    | LC1G115... 225                                                                                          | LC1G265... 500 | LC1G630... 800 |
| Rated insulation voltage (Ui)                                            | Conforming to IEC 60947-4-1.<br>Over-voltage category III,<br>degree of pollution: 3 |    | V  | 1000                                                                                                    | 1000           | 1000           |
| Rated impulse withstand voltage (Uimp)                                   | Coil not connected to the power circuit                                              |    | kV | 8                                                                                                       | 8              | 8              |
| Conforming to standards                                                  |                                                                                      |    |    | IEC/EN 60947-4-1, UL 60947-4-1, CSA C22.2 n° 60947-4-1, JIS C 8201-4-1, GB/T 14048.4, IEC 60721-3-3 3C3 |                |                |
| Product certifications                                                   |                                                                                      |    |    | CB scheme, CCC, cULus, UKCA, EAC, EU-RO-MR by DNV                                                       |                |                |
| Electromagnetic compatibility                                            |                                                                                      |    |    | IEC 60947-4-1                                                                                           |                |                |
| Immunity                                                                 |                                                                                      |    |    | Following IEC 60947-4-1 Table 16                                                                        |                |                |
| Emission                                                                 |                                                                                      |    |    | Environment A according to IEC 60947-4-1                                                                |                |                |
| Immunity to radiated electromagnetic interference                        |                                                                                      |    |    | 20V/m according to IEC/EN 61000-4-3                                                                     |                |                |
| Voltage sag immunity (in complete product as well)                       |                                                                                      |    |    | Conforming to SEMI-F47                                                                                  |                |                |
| Degree of protection                                                     | Conforming to IEC 60529 / VDE 0106                                                   |    |    | IP2x with terminal shrouds LA9G37●●/ LA9G47●●                                                           |                |                |
| Climatic withstand                                                       |                                                                                      |    |    | According to IACS E10                                                                                   |                |                |
| Ambient air temperature around the device                                | Storage                                                                              |    | °C | -60...+80                                                                                               |                |                |
|                                                                          | Operation                                                                            |    | °C | -25...+60                                                                                               |                |                |
|                                                                          | Permissible at Uc                                                                    |    | °C | -40...+70                                                                                               |                |                |
| Net weight                                                               | Standard                                                                             | 3P | kg | 3.6                                                                                                     | 7.5            | 14.2           |
|                                                                          |                                                                                      | 4P | kg | 4.4                                                                                                     | 8.2            | 18             |
|                                                                          | Advanced                                                                             | 3P | kg | 4.1                                                                                                     | 8.2            | 17.3           |
|                                                                          |                                                                                      | 4P | kg | 5.1                                                                                                     | 8.7            | 22             |
| Maximum operating altitude                                               | Without derating                                                                     |    | m  | 3000                                                                                                    |                |                |
| Operating positions                                                      | Without derating                                                                     |    |    |                     |                |                |
|                                                                          | With derating <sup>(1)</sup>                                                         |    |    |                     |                |                |
| Shock resistance<br>1/2 sine wave = 11 ms<br>Conforming to IEC 60068-2-7 | Contactor open                                                                       |    |    | 10 gn                                                                                                   | 10 gn          | 10 gn          |
|                                                                          | Contactor closed                                                                     |    |    | 15 gn                                                                                                   | 15 gn          | 15 gn          |
| Vibration resistance<br>5...300 Hz<br>Conforming to IEC 60068-2-6        | Contactor open                                                                       |    |    | 2 gn                                                                                                    | 2 gn           | 2 gn           |
|                                                                          | Contactor closed                                                                     |    |    | 4 gn                                                                                                    | 4 gn           | 4 gn           |

<sup>(1)</sup> For derating details, please contact technical support.

# TeSys Control

## Giga High power contactors

### Characteristics

#### Pole characteristics

| Contactor type                                                                             |                                                        | LC1G115         | LC1G150                                                                                                       | LC1G185                  | LC1G225                  |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|
| Number of poles                                                                            |                                                        | 3 or 4          | 3 or 4                                                                                                        | 3 or 4                   | 3 or 4                   |
| Rated operational current (Ie)                                                             | Ue ≤ 400 V 3P In AC-3 / AC-3e, θ ≤ 60 °C               | A               | 115 / 115                                                                                                     | 150 / 145                | 185 / 177                |
|                                                                                            | Ue ≤ 1000 V 3P & 4P In AC-1, θ ≤ 40 °C                 | A               | 250                                                                                                           | 275                      | 305                      |
| Rated operational voltage (Ue)                                                             | Up to                                                  | V               | 1000 <sup>(1)</sup>                                                                                           | 1000                     | 1000                     |
| Rated frequency (f) <sup>(2)</sup>                                                         |                                                        | Hz              | 50 / 60                                                                                                       | 50 / 60                  | 50 / 60                  |
| Frequency operating limits                                                                 | With derating <sup>(3)</sup>                           | Hz              | 16 <sup>2/3</sup> ...400                                                                                      | 16 <sup>2/3</sup> ...400 | 16 <sup>2/3</sup> ...400 |
| Conventional thermal current                                                               | θ ≤ 40 °C                                              | A               | 250                                                                                                           | 275                      | 305                      |
| Rated making capacity                                                                      | I rms conforming to IEC 60947-4-1                      | A               | Making current: 10 x I in AC-3 or 12 x I in AC-4<br>Making current: 13 x I in AC-3e                           |                          |                          |
| Rated breaking capacity                                                                    | I rms conforming to IEC 60947-4-1                      | A               | Making and breaking current: 8 x I in AC-3 or 10 x I in AC-4<br>Making and breaking current: 8.5 x I in AC-3e |                          |                          |
| Maximum permissible current<br>No current flowing for previous<br>60 minutes, at θ ≤ 40 °C | For 10 s                                               | A               | 1100                                                                                                          | 1200                     | 1500                     |
|                                                                                            | For 30 s                                               | A               | 640                                                                                                           | 700                      | 920                      |
|                                                                                            | For 1 min                                              | A               | 520                                                                                                           | 600                      | 740                      |
|                                                                                            | For 3 min                                              | A               | 400                                                                                                           | 450                      | 500                      |
|                                                                                            | For 10 min                                             | A               | 320                                                                                                           | 350                      | 400                      |
| Short-circuit protection<br>by fuses                                                       | Fuses for motor: type aM -<br>Ue ≤ 440 V               | A               | 125                                                                                                           | 160                      | 200                      |
|                                                                                            | Fuses for motor: type aM -<br>Ue ≤ 690 V               | A               | 125                                                                                                           | 160                      | 160                      |
|                                                                                            | Fuses for general application:<br>type gG - Ue ≤ 690 V | A               | 315                                                                                                           | 315                      | 315                      |
| Average impedance per pole                                                                 | At Ith and 50 Hz                                       | mΩ              | 0.18                                                                                                          | 0.18                     | 0.17                     |
| Power dissipation per pole<br>for the above<br>operational currents                        | AC-3 / AC-3e                                           | W               | 3                                                                                                             | 5                        | 6                        |
|                                                                                            | AC-1                                                   | W               | 10                                                                                                            | 10                       | 20                       |
| Connection                                                                                 | Bar                                                    |                 | Maximum c.s.a.                                                                                                |                          |                          |
|                                                                                            | Number of bars                                         |                 | 2                                                                                                             | 2                        | 2                        |
|                                                                                            | Bar                                                    | mm              | 25 x 6                                                                                                        | 25 x 6                   | 25 x 6                   |
|                                                                                            | Cable with lug                                         | mm <sup>2</sup> | 185                                                                                                           | 185                      | 185                      |
|                                                                                            | Cable with connector                                   | mm <sup>2</sup> | 185                                                                                                           | 185                      | 185                      |
| Tightening torque                                                                          | Bolt diameter                                          | mm              | Ø8.5                                                                                                          | Ø8.5                     | Ø8.5                     |
|                                                                                            | Power circuit connections                              | N.m             | 18                                                                                                            | 18                       | 18                       |

(1) Ue ≤ 1000 V for AC-1 / Ue ≤ 690 V for AC-3 / AC-3e / AC-4.

(2) Please consult your technical support team for application with frequencies other than 50/60 Hz.

(3) For derating details, please contact technical support.

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## Giga High power contactors

### Characteristics

| Pole characteristics                                         |                           |                           |                           |                           |                           |
|--------------------------------------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| LC1G265                                                      | LC1G330                   | LC1G400                   | LC1G500                   | LC1G630                   | LC1G800                   |
| 3 or 4                                                       | 3 or 4                    | 3 or 4                    | 3 or 4                    | 3 or 4                    | 3 or 4                    |
| 265 / 255                                                    | 330 / 294                 | 400 / 391                 | 500 / 437                 | 630 / 555                 | 800 / 587                 |
| 385                                                          | 440                       | 550                       | 700                       | 1050                      | 1050                      |
| 1000                                                         | 1000                      | 1000                      | 1000                      | 1000                      | 1000                      |
| 50 / 60                                                      | 50 / 60                   | 50 / 60                   | 50 / 60                   | 50 / 60                   | 50 / 60                   |
| 16 <sup>2/3</sup> ... 400                                    | 16 <sup>2/3</sup> ... 400 | 16 <sup>2/3</sup> ... 400 | 16 <sup>2/3</sup> ... 400 | 16 <sup>2/3</sup> ... 400 | 16 <sup>2/3</sup> ... 400 |
| 385                                                          | 440                       | 550                       | 700                       | 1050                      | 1050                      |
| Making current: 10 x I in AC-3 or 12 x I in AC-4             |                           |                           |                           |                           |                           |
| Making current: 13 x I in AC-3e                              |                           |                           |                           |                           |                           |
| Making and breaking current: 8 x I in AC-3 or 10 x I in AC-4 |                           |                           |                           |                           |                           |
| Making and breaking current: 8.5 x I in AC-3e                |                           |                           |                           |                           |                           |
| 2200                                                         | 2650                      | 3600                      | 4000                      | 5050                      | 5500                      |
| 1230                                                         | 1800                      | 2400                      | 2800                      | 4400                      | 4600                      |
| 950                                                          | 1300                      | 1700                      | 2200                      | 3400                      | 3600                      |
| 620                                                          | 900                       | 1200                      | 1500                      | 2200                      | 2600                      |
| 480                                                          | 750                       | 1000                      | 1200                      | 1600                      | 1700                      |
| 315                                                          | 400                       | 500                       | 500                       | 630                       | 800                       |
| 250                                                          | 250                       | 315                       | 400                       | 500                       | 630                       |
| 400                                                          | 500                       | 630                       | 800                       | 1250                      | 1250                      |
| 0.144                                                        | 0.144                     | 0.1                       | 0.08                      | 0.065                     | 0.065                     |
| 11                                                           | 16                        | 16                        | 20                        | 26                        | 42                        |
| 20                                                           | 30                        | 30                        | 40                        | 70                        | 70                        |
| Maximum c.s.a.                                               |                           |                           |                           |                           |                           |
| 2                                                            | 2                         | 2                         | 2                         | 2                         | 2                         |
| 32 x 10                                                      | 32 x 10                   | 32 x 10                   | 32 x 10                   | 52 x 20                   | 52 x 20                   |
| 240                                                          | 2 x 150                   | 2 x 185                   | 2 x 240                   | -                         | -                         |
| 240                                                          | -                         | -                         | -                         | -                         | -                         |
| Ø10.6                                                        | Ø10.6                     | Ø10.6                     | Ø10.6                     | Ø13                       | Ø13                       |
| 35                                                           | 35                        | 35                        | 35                        | 58                        | 58                        |

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# TeSys Control

## Giga High power contactors

### Characteristics

| TeSys Giga High power contactors - Advanced version - Control circuit characteristics with AC/DC coils |                                       |           |               |                                                                                         |                                                               |               |               |               |  |
|--------------------------------------------------------------------------------------------------------|---------------------------------------|-----------|---------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------|---------------|---------------|--|
| Contactor type                                                                                         |                                       |           |               |                                                                                         | LC1G115...225                                                 | LC1G265...330 | LC1G400...500 | LC1G630...800 |  |
| Rated control circuit voltage (Uc)                                                                     |                                       |           |               | V                                                                                       | 24...48 AC/DC, 48...130 AC/DC, 200...500 AC/DC <sup>(1)</sup> |               |               |               |  |
| Control voltage limits<br>(θ ≤ 60 °C)                                                                  | AC input (50/60 Hz) /DC input         | Operation |               |                                                                                         | 0.8 Uc Min...1.1 Uc Max                                       |               |               |               |  |
|                                                                                                        |                                       | Drop-out  |               |                                                                                         | 0.1 Uc Max...0.45 Uc Min                                      |               |               |               |  |
| Inputs compatibility<br>PLC digital output<br>24 V DC Type 3<br>IEC61131-2                             |                                       | Off-state |               | V DC                                                                                    | 0...5                                                         |               |               |               |  |
|                                                                                                        |                                       | On-state  |               | V DC                                                                                    | 11...30                                                       |               |               |               |  |
| Average consumption at 20 °C and at Uc<br>(3 and 4-pole contactors)                                    | 24...48 V AC/DC coil (BEE)            | Inrush    | 50/60 Hz coil | VA                                                                                      | 290                                                           | 540           | 490           | -             |  |
|                                                                                                        |                                       |           | DC            | W                                                                                       | 220                                                           | 380           | 350           | -             |  |
|                                                                                                        |                                       | Sealed    | 50/60 Hz coil | VA                                                                                      | 10                                                            | 17.9          | 17.9          | -             |  |
|                                                                                                        |                                       |           | DC            | W                                                                                       | 5.7                                                           | 6.4           | 6             | -             |  |
|                                                                                                        | 48...130 V AC/DC coil (EHE)           | Inrush    | 50/60 Hz coil | VA                                                                                      | 260                                                           | 430           | 450           | 560           |  |
|                                                                                                        |                                       |           | DC            | W                                                                                       | 190                                                           | 360           | 360           | 440           |  |
|                                                                                                        |                                       | Sealed    | 50/60 Hz coil | VA                                                                                      | 8.9                                                           | 11.7          | 11.7          | 12            |  |
|                                                                                                        |                                       |           | DC            | W                                                                                       | 5                                                             | 9             | 8.3           | 8.8           |  |
|                                                                                                        | 200...500 V AC/DC coil (LSE)          | Inrush    | 50/60 Hz coil | VA                                                                                      | 295                                                           | 530           | 535           | 670           |  |
|                                                                                                        |                                       |           | DC            | W                                                                                       | 215                                                           | 300           | 300           | 390           |  |
|                                                                                                        |                                       | Sealed    | 50/60 Hz coil | VA                                                                                      | 13                                                            | 16.1          | 15.4          | 17            |  |
|                                                                                                        |                                       |           | DC            | W                                                                                       | 8                                                             | 9             | 8.6           | 11            |  |
| Heat dissipation                                                                                       |                                       |           |               | W                                                                                       | 4...5                                                         | 5...6         | 5...6         | 5...6         |  |
| Operating time                                                                                         | Closing "C"                           |           |               | ms                                                                                      | 40...70                                                       | 40...70       | 40...70       | 40...70       |  |
|                                                                                                        | Opening "O"                           |           |               | ms                                                                                      | 15...50                                                       | 15...50       | 15...50       | 15...50       |  |
| Mechanical durability at Uc                                                                            | In millions of operating cycles (max) |           |               |                                                                                         | 8                                                             | 8             | 8             | 5             |  |
| Maximum operating rate at ambient temperature ≤ 60 °C                                                  | In operating cycles per hour          | AC-1      |               |                                                                                         | 300                                                           | 300           | 300           | 300           |  |
|                                                                                                        |                                       | AC-3      |               |                                                                                         | 500                                                           | 500           | 500           | 500           |  |
|                                                                                                        |                                       | AC-4      |               |                                                                                         | 150                                                           | 150           | 60            | 60            |  |
| Coil control and PLC input connection (Push-in type)                                                   |                                       |           |               |                                                                                         | Min/max c.s.a.                                                |               |               |               |  |
| Flexible cable                                                                                         | 1 conductor with cable end            |           |               | mm²  | 0.25...2.5                                                    | 0.25...2.5    | 0.25...2.5    | 0.25...2.5    |  |
|                                                                                                        | 2 conductors with Dual Sleeve         |           |               | mm²  | 0.5...1                                                       | 0.5...1       | 0.5...1       | 0.5...1       |  |
| Solid cable                                                                                            | 1 conductor                           |           |               | mm²  | 0.2...2.5                                                     | 0.2...2.5     | 0.2...2.5     | 0.2...2.5     |  |
|                                                                                                        | Stripping length                      |           |               | mm   | 12                                                            | 12            | 12            | 12            |  |

(1) 24...48 V AC/DC control voltage option is available for LC1G115...LC1G500 ratings.

# TeSys Control

## Giga High power contactors

### Characteristics

| TeSys Giga High power contactors - Standard version control circuit characteristics with AC/DC coils |                                       |           |               |                                                                                         |                                        |               |               |               |  |
|------------------------------------------------------------------------------------------------------|---------------------------------------|-----------|---------------|-----------------------------------------------------------------------------------------|----------------------------------------|---------------|---------------|---------------|--|
| Contactor type                                                                                       |                                       |           |               |                                                                                         | LC1G115...225                          | LC1G265...330 | LC1G400...500 | LC1G630...800 |  |
| Rated control circuit voltage (Uc)                                                                   |                                       |           |               | V                                                                                       | 48...130 AC/DC, 100...250 AC/DC        |               |               |               |  |
| Control voltage limits<br>(θ ≤ 60 °C)                                                                | AC input (50/60 Hz)<br>/DC input      | Operation |               |                                                                                         | 0.8 Uc Min...1.1 Uc Max <sup>(1)</sup> |               |               |               |  |
|                                                                                                      |                                       | Drop-out  |               |                                                                                         | 0.1 Uc Max...0.45 Uc Min               |               |               |               |  |
| Average consumption<br>at 20 °C and at Uc<br>(3 and 4-pole contactors)                               | 48...130 V AC/DC<br>coil (EHE)        | Inrush    | 50/60 Hz coil | VA                                                                                      | 640                                    | 780           | 965           | 990           |  |
|                                                                                                      |                                       |           | DC            | W                                                                                       | 445                                    | 695           | 760           | 790           |  |
|                                                                                                      |                                       | Sealed    | 50/60 Hz coil | VA                                                                                      | 18.7                                   | 17.6          | 17.6          | 18.7          |  |
|                                                                                                      |                                       |           | DC            | W                                                                                       | 7.8                                    | 7.8           | 7.8           | 9.5           |  |
|                                                                                                      | 100...250 V AC/DC<br>coil (KUE)       | Inrush    | 50/60 Hz coil | VA                                                                                      | 540                                    | 700           | 750           | 800           |  |
|                                                                                                      |                                       |           | DC            | W                                                                                       | 380                                    | 645           | 660           | 680           |  |
|                                                                                                      |                                       | Sealed    | 50/60 Hz coil | VA                                                                                      | 12.4                                   | 15            | 15.5          | 15            |  |
|                                                                                                      |                                       |           | DC            | W                                                                                       | 7.8                                    | 9.1           | 9.3           | 9.5           |  |
| Heat dissipation                                                                                     |                                       |           |               | W                                                                                       | 5...6                                  | 6...7         | 6...7         | 6...7         |  |
| Operating time                                                                                       | Closing "C"                           |           |               | ms                                                                                      | 40...70                                | 40...70       | 40...70       | 40...70       |  |
|                                                                                                      | Opening "O"                           |           |               | ms                                                                                      | 15...50                                | 15...50       | 15...50       | 15...50       |  |
| Mechanical durability at Uc                                                                          | In millions of operating cycles (max) |           |               |                                                                                         | 8                                      | 8             | 8             | 5             |  |
| Maximum operating rate<br>at ambient temperature<br>≤ 60 °C                                          | In operating cycles<br>per hour       | AC-1      |               |                                                                                         | 300                                    | 300           | 300           | 300           |  |
|                                                                                                      |                                       | AC-3      |               |                                                                                         | 500                                    | 500           | 500           | 500           |  |
|                                                                                                      |                                       | AC-4      |               |                                                                                         | 150                                    | 150           | 60            | 60            |  |
| Coil control connection (Push-in type)                                                               |                                       |           |               |                                                                                         | Min/max c.s.a.                         |               |               |               |  |
| Flexible cable                                                                                       | 1 conductor with cable end            |           |               | mm²  | 0.25...2.5                             | 0.25...2.5    | 0.25...2.5    | 0.25...2.5    |  |
|                                                                                                      | 2 conductors with Dual Sleeve         |           |               | mm²  | 0.5...1                                | 0.5...1       | 0.5...1       | 0.5...1       |  |
| Solid cable                                                                                          | 1 conductor                           |           |               | mm²  | 0.2...2.5                              | 0.2...2.5     | 0.2...2.5     | 0.2...2.5     |  |
|                                                                                                      | Stripping length                      |           |               | mm   | 12                                     | 12            | 12            | 12            |  |

(1) 0.7 Uc Min for 110 V DC input (with KUE coil).

COORD.

Ref.



High power  
contactors

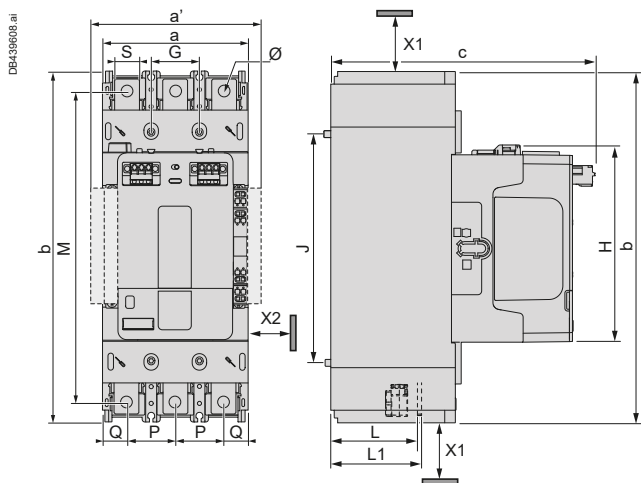
# TeSys Control

## Giga High power contactors

### Dimensions

#### Advanced LC1G115...225 TeSys Giga High power contactors

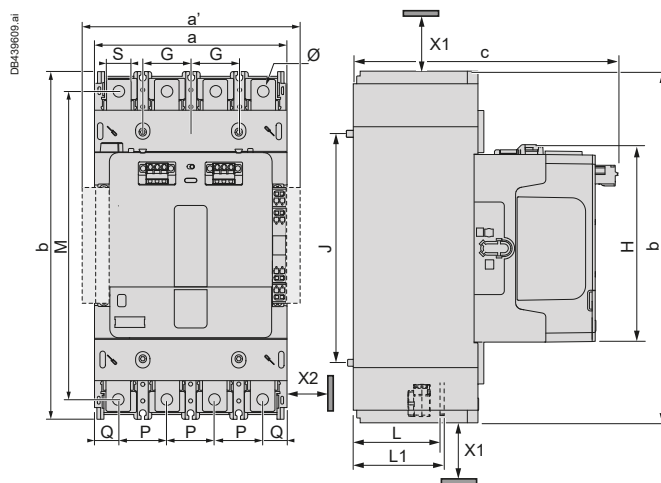
##### 3-pole



All dimensions are in mm.

| a     | b     | c     | G  | J   | M     | H     | L    | L1   | P  | Q    | S  | Ø   |
|-------|-------|-------|----|-----|-------|-------|------|------|----|------|----|-----|
| 107.7 | 254.7 | 192.9 | 35 | 166 | 225.7 | 144.1 | 63.9 | 66.9 | 35 | 18.9 | 18 | 8.5 |

##### 4-pole



All dimensions are in mm.

| a     | b     | c     | G  | J   | M     | H     | L    | L1   | P  | Q    | S  | Ø   |
|-------|-------|-------|----|-----|-------|-------|------|------|----|------|----|-----|
| 142.7 | 254.7 | 192.9 | 35 | 166 | 225.7 | 144.1 | 63.9 | 66.9 | 35 | 18.9 | 18 | 8.5 |

X1 (mm) = Minimum electrical clearance.

LC1G115...800, up to 1000 V: 40 mm

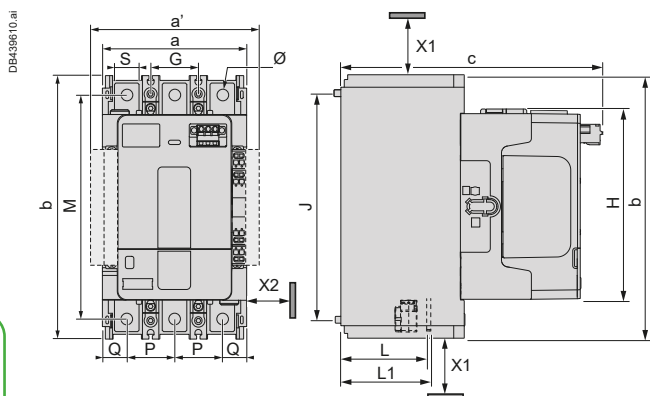
X2 (mm) = Minimum electrical clearance according to operating voltage inside metallic cabinets / adjacent installation of contactors.

LC1G115...800: 5 mm.

a' = a + 20 mm with additional auxiliary contact blocks on both sides (externally).

#### Standard LC1G115...225 TeSys Giga High power contactors

##### 3-pole



All dimensions are in mm.

| a     | b   | c     | G  | J   | M     | H     | L    | L1   | P  | Q    | S  | Ø   |
|-------|-----|-------|----|-----|-------|-------|------|------|----|------|----|-----|
| 107.7 | 193 | 192.9 | 35 | 166 | 164.1 | 139.4 | 66.9 | 69.9 | 35 | 18.9 | 18 | 8.5 |

X1 (mm) = Minimum electrical clearance.

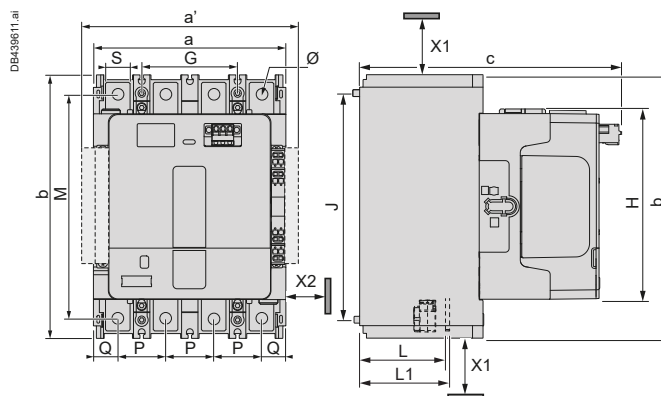
LC1G115...800, up to 1000 V: 40 mm

X2 (mm) = Minimum electrical clearance according to operating voltage inside metallic cabinets / adjacent installation of contactors.

LC1G115...800: 5 mm.

a' = a + 20 mm with additional auxiliary contact blocks on both sides (externally).

##### 4-pole



All dimensions are in mm.

| a     | b   | c     | G  | J   | M     | H     | L    | L1   | P  | Q    | S  | Ø   |
|-------|-----|-------|----|-----|-------|-------|------|------|----|------|----|-----|
| 142.7 | 193 | 192.9 | 35 | 166 | 164.1 | 139.4 | 66.9 | 69.9 | 35 | 18.9 | 18 | 8.5 |

Ref.



High power contactors

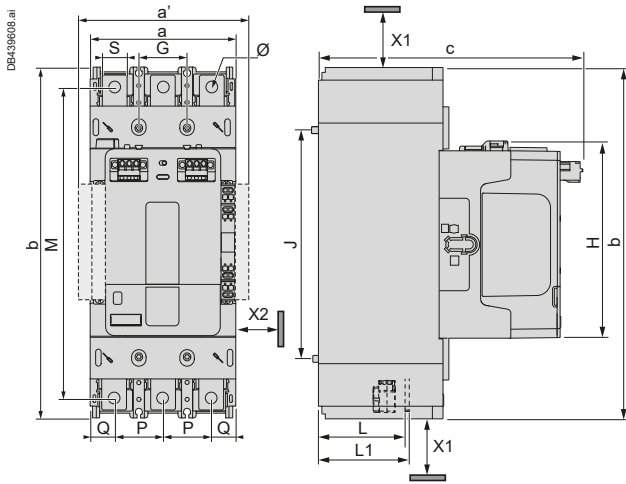
# TeSys Control

## Giga High power contactors

### Dimensions

#### Advanced LC1G265...500 TeSys Giga High power contactors

##### 3-pole



All dimensions are in mm.

| a   | b   | c     | G  | J   | M     | H     | L    | L1   | P  | Q  | S  | Ø    |
|-----|-----|-------|----|-----|-------|-------|------|------|----|----|----|------|
| 140 | 290 | 225.5 | 45 | 187 | 261.6 | 166.7 | 72.8 | 78.8 | 45 | 25 | 30 | 10.6 |

X1 (mm) = Minimum electrical clearance.

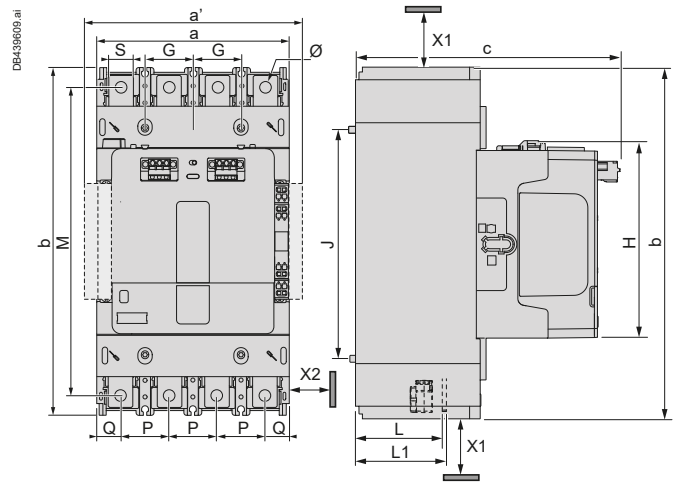
LC1G115...800, up to 1000 V: 40 mm.

X2 (mm) = Minimum electrical clearance according to operating voltage inside metallic cabinets / adjacent installation of contactors.

LC1G115...800: 5 mm.

a' = a + 20 mm with additional auxiliary contact blocks on both sides (externally).

##### 4-pole

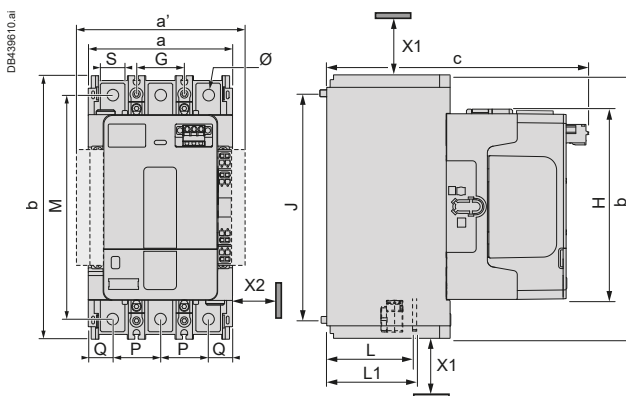


All dimensions are in mm.

| a   | b   | c     | G  | J   | M     | H     | L    | L1   | P  | Q  | S  | Ø    |
|-----|-----|-------|----|-----|-------|-------|------|------|----|----|----|------|
| 185 | 290 | 225.5 | 45 | 187 | 261.6 | 166.7 | 72.8 | 78.8 | 45 | 25 | 30 | 10.6 |

#### Standard LC1G265...500 TeSys Giga High power contactors

##### 3-pole



All dimensions are in mm.

| a   | b   | c     | G  | J   | M   | H     | L    | L1                |
|-----|-----|-------|----|-----|-----|-------|------|-------------------|
| 140 | 225 | 225.5 | 45 | 187 | 197 | 161.8 | 78.8 | LC1G265-330: 81.8 |
|     |     |       |    |     |     |       |      | LC1G400: 82.8     |
|     |     |       |    |     |     |       |      | LC1G500: 83.8     |

| P  | Q  | S  | Ø    |
|----|----|----|------|
| 45 | 25 | 30 | 10.6 |

X1 (mm) = Minimum electrical clearance.

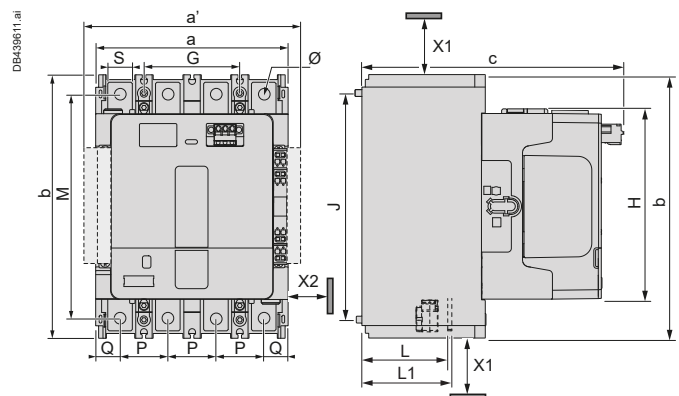
LC1G115...800, up to 1000 V: 40 mm.

X2 (mm) = Minimum electrical clearance according to operating voltage inside metallic cabinets / adjacent installation of contactors.

LC1G115...800: 5 mm.

a' = a + 20 mm with additional auxiliary contact blocks on both sides (externally).

##### 4-pole



All dimensions are in mm.

| a   | b   | c     | G  | J   | M   | H     | L    | L1                |
|-----|-----|-------|----|-----|-----|-------|------|-------------------|
| 185 | 225 | 225.5 | 45 | 187 | 197 | 161.8 | 78.8 | LC1G265-330: 81.8 |
|     |     |       |    |     |     |       |      | LC1G400: 82.8     |
|     |     |       |    |     |     |       |      | LC1G500: 83.8     |

| P  | Q  | S  | Ø    |
|----|----|----|------|
| 45 | 25 | 30 | 10.6 |

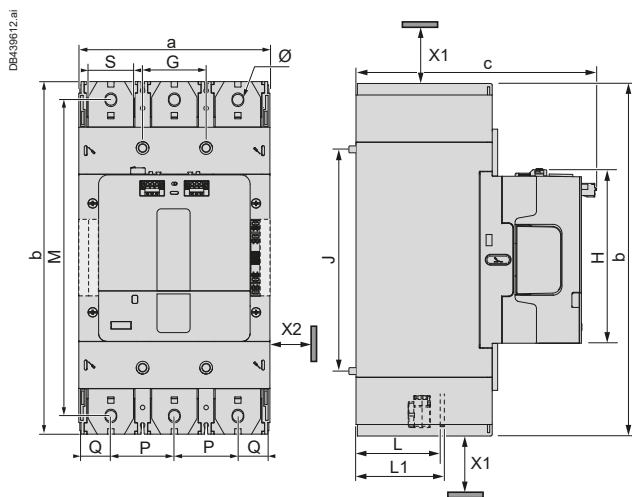
# TeSys Control

## Giga High power contactors

### Dimensions

#### Advanced LC1G630...800 TeSys Giga High power contactors

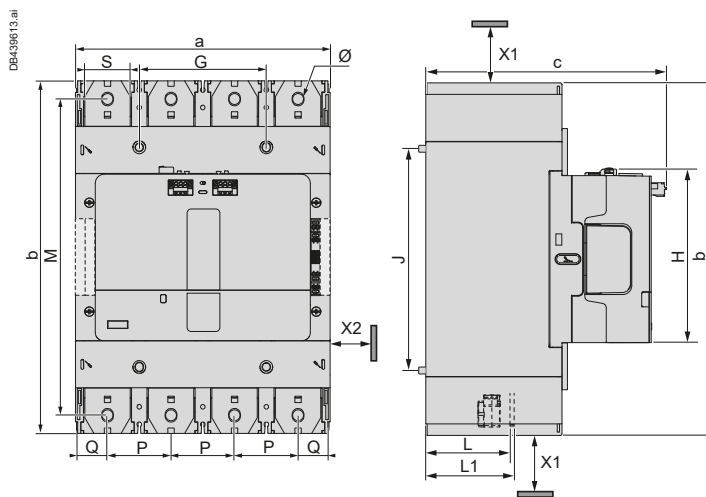
##### 3-pole



All dimensions are in mm.

| a     | b     | c     | G  | J   | M     | H     | L  | L1  | P  | Q    | S  | Ø  |
|-------|-------|-------|----|-----|-------|-------|----|-----|----|------|----|----|
| 210.6 | 388.5 | 265.6 | 70 | 242 | 348.5 | 192.1 | 99 | 107 | 70 | 35.3 | 48 | 13 |

##### 4-pole



All dimensions are in mm.

| a     | b     | c     | G  | J   | M     | H     | L  | L1  | P  | Q    | S  | Ø  |
|-------|-------|-------|----|-----|-------|-------|----|-----|----|------|----|----|
| 280.6 | 388.5 | 265.6 | 70 | 242 | 348.5 | 192.1 | 99 | 107 | 70 | 35.3 | 48 | 13 |

X1 (mm) = Minimum electrical clearance.

LC1G115...800, up to 1000 V: 40 mm.

X2 (mm) = Minimum electrical clearance according to operating voltage inside metallic cabinets / adjacent installation of contactors.

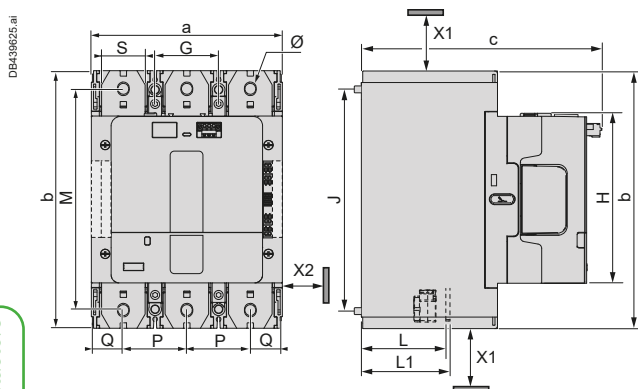
LC1G115...800: 5 mm.

Ref.



#### Standard LC1G630...800 TeSys Giga High power contactors

##### 3-pole



All dimensions are in mm.

| a     | b   | c     | G  | J   | M   | H     | L   | L1  | P  | Q    | S  | Ø  |
|-------|-----|-------|----|-----|-----|-------|-----|-----|----|------|----|----|
| 210.6 | 284 | 265.6 | 70 | 242 | 244 | 187.4 | 107 | 113 | 70 | 35.3 | 48 | 13 |

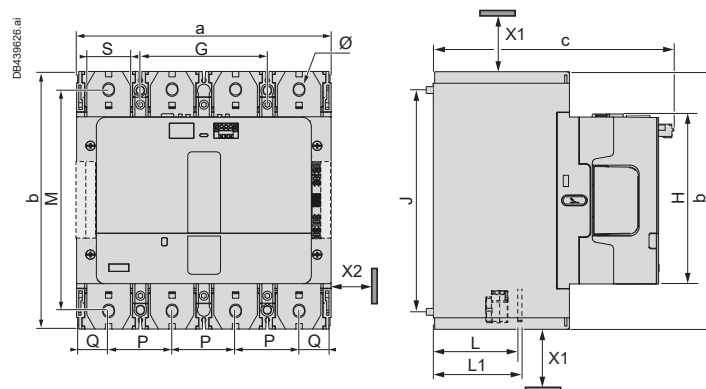
X1 (mm) = Minimum electrical clearance.

LC1G115...800, up to 1000 V: 40 mm.

X2 (mm) = Minimum electrical clearance according to operating voltage inside metallic cabinets / adjacent installation of contactors.

LC1G115...800: 5 mm.

##### 4-pole



All dimensions are in mm.

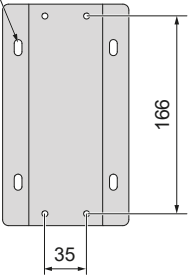
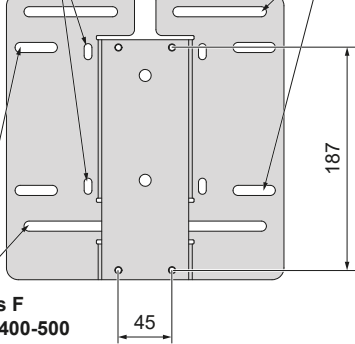
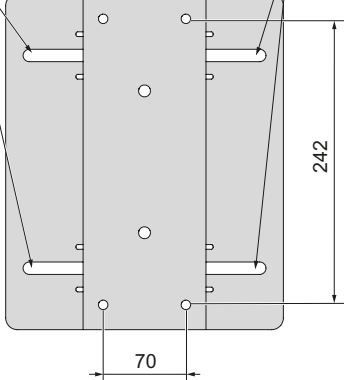
| a     | b   | c     | G  | J   | M   | H     | L   | L1  | P  | Q    | S  | Ø  |
|-------|-----|-------|----|-----|-----|-------|-----|-----|----|------|----|----|
| 280.6 | 284 | 265.6 | 70 | 242 | 244 | 187.4 | 107 | 113 | 70 | 35.3 | 48 | 13 |

High power contactors

# TeSys Control

## Retrofit base plates to replace TeSys F contactors

### Dimensions/mounting

| Dimensions                                                                                                                          |                                                                                                                                                                    |                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LA9GRBF1                                                                                                                            | LA9GRBF2                                                                                                                                                           | LA9GRBF3                                                                                                                                                              |
| For replacement of F115-225                                                                                                         | For replacement of F265-500                                                                                                                                        | For replacement of F630 and F800                                                                                                                                      |
| <p>DB438035.ai</p> <p>TeSys F<br/>LC1F115-225</p>  | <p>DB438036.ai</p> <p>TeSys F<br/>LC1F265-330</p> <p>TeSys F<br/>LC1F400-500</p>  | <p>DB438035.eps</p> <p>TeSys F<br/>LC1F630-800</p> <p>TeSys F<br/>LC1F630-800</p>  |

**Note:** All dimensions are in mm.

Ref.

High power  
contactors

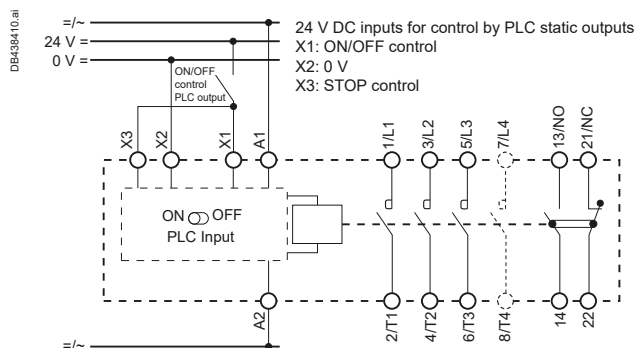
# TeSys Control

## Giga High power contactors

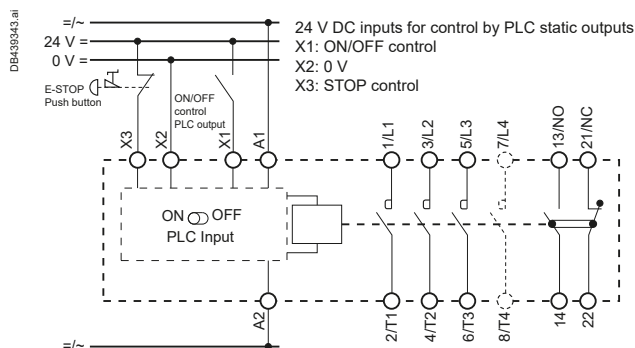
### Diagrams

#### TeSys Giga High power contactors

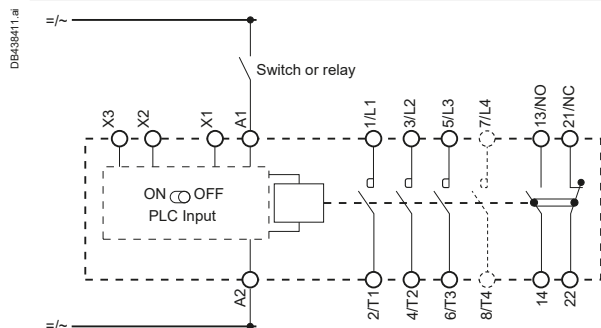
##### Advanced version - ON/OFF control by PLC



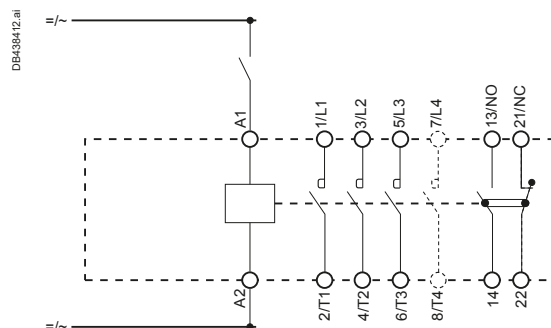
##### Advanced version - ON/OFF control by PLC in safety application



##### Advanced version - Control by switch



##### Standard version

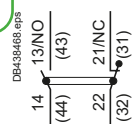


#### Add-on blocks

##### Instantaneous auxiliary contacts

1 N/O + 1 N/C

**LAG8N113P**  
mirror contacts



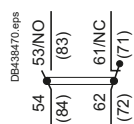
2 N/O

**LAG8N203P**



1 N/O + 1 N/C

**LAG8N113**  
mirror contacts



2 N/O

**LAG8N203**



(1) Terminal numbers in brackets refer to blocks when mounted upside down, on left-hand side of contactor.