

# Fișă tehnică produs

Specificatii



Contactor TeSys Giga, 3P (3 NO),  
AC-3 <= 440V 500A, versiune  
avansata, bobina 200..500V c.a./c.c.

LC1G500LSEA

## Principale

|                                       |                                                                                                             |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Gama                                  | TeSys                                                                                                       |
| gama de produse                       | TeSys Giga                                                                                                  |
| Tip produs sau componenta             | Contactor                                                                                                   |
| nume scurt al dispozitivului          | LC1G                                                                                                        |
| aplicatie contactor                   | Comutarea puterii<br>Comanda motor                                                                          |
| categorie de utilizare                | AC-1<br>AC-3<br>AC-3e<br>AC-4<br>AC-5A<br>AC-5B<br>AC-6a<br>AC-6b<br>AC-8b<br>AC-8a<br>DC-1<br>DC-3<br>DC-5 |
| descriere poli                        | 3P                                                                                                          |
| [Ue] tensiune nominala de functionare | <= 1000 V c.a. 50/60 Hz<br><= 460 V c.c.                                                                    |
| [Ie] curent nominal de utilizare      | 700 A (at <40 °C) at <= 1000 V AC-1<br>500 A (at <60 °C) at <= 440 V AC-3                                   |
| [Uc] tensiune circuit de comanda      | 200...500 V c.a. 50/60 Hz<br>200...500 V c.c.                                                               |
| limite de tensiune circuit de comanda | Operațional: 0.8 Uc Min...1.1 Uc Max (at <60 °C)<br>Eliminare: 0.1 Uc Max...0.45 Uc Min (at <60 °C)         |

## Suplimentare

|                                                |                                                                                                                         |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| [Uimp] tensiune de tinere la impuls            | 8 kV                                                                                                                    |
| categorie de supratensiune                     | III                                                                                                                     |
| capacitate de rupere nominala                  | 4600 A at 440 V                                                                                                         |
| [Icw] curent nominal de scurtcircuit admisibil | 4,0 kA - 10 s<br>2,8 kA - 30 s<br>2,2 kA - 1 min<br>1,5 kA - 3 min<br>1,2 kA - 10 min                                   |
| calibrul fuzibilului asociat                   | 500 A aM at <= 440 V for motor<br>400 A aM at <= 690 V for motor<br>800 A gG at <= 690 V<br>600 A UL Type L at <= 600 V |
| impedanta medie                                | 0,00008 Ohm                                                                                                             |

Declinare de responsabilitate: Această documentație nu se substituie și nu trebuie utilizată pentru stabilirea adecvării sau fiabilității acestor produse pentru aplicații utilizator

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Ui] tensiune nominala de izolatie             | 1000 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| puterea disipata pe pol                        | 40 W AC-1 - lth 700 A<br>20 W AC-3 - lth 500 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Cod compatibilitate                            | LC1G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| compozitie contact pol                         | 3 NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| compozitie contact auxiliar                    | 1 NO + 1 NC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| putere motor kW                                | 147 kW at 230 V c.a. 50/60 Hz (AC-3e)<br>250 kW at 400 V c.a. 50/60 Hz (AC-3e)<br>250 kW at 415 V c.a. 50/60 Hz (AC-3e)<br>280 kW at 440 V c.a. 50/60 Hz (AC-3e)<br>315 kW at 500 V c.a. 50/60 Hz (AC-3e)<br>355 kW at 690 V c.a. 50/60 Hz (AC-3e)<br>335 kW at 1000 V c.a. 50/60 Hz (AC-3e)<br>160 kW at 230 V c.a. 50/60 Hz (AC-3)<br>250 kW at 400 V c.a. 50/60 Hz (AC-3)<br>250 kW at 415 V c.a. 50/60 Hz (AC-3)<br>315 kW at 440 V c.a. 50/60 Hz (AC-3)<br>355 kW at 500 V c.a. 50/60 Hz (AC-3)<br>355 kW at 690 V c.a. 50/60 Hz (AC-3)<br>335 kW at 1000 V c.a. 50/60 Hz (AC-3)<br>150 kW at 230 V c.a. 50/60 Hz (AC-4)<br>250 kW at 400 V c.a. 50/60 Hz (AC-4)<br>250 kW at 415 V c.a. 50/60 Hz (AC-4)<br>295 kW at 440 V c.a. 50/60 Hz (AC-4)<br>295 kW at 500 V c.a. 50/60 Hz (AC-4)<br>355 kW at 690 V c.a. 50/60 Hz (AC-4)<br>280 kW at 1000 V c.a. 50/60 Hz (AC-4) |
| putere motor hp                                | 150 CP at 200/208 V 60 Hz<br>200 CP at 230/240 V 60 Hz<br>400 CP at 460/480 V 60 Hz<br>450 CP at 575/600 V 60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| tehnologie bobine                              | Limitare de varf bidirectionala incorporata                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| nivel de incredere al securitatii              | B10d = 400000 cic contactor cu sarcină nominală conformitate cu EN/ISO 13849-1<br>B10d = 3000000 cic contactor cu sarcină mecanică conformitate cu EN/ISO 13849-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| durabilitate mecanica                          | 8 Mcycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| inrush power in VA (50/60 Hz, AC)              | 535 VA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| inrush power in W (DC)                         | 300 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| hold-in power consumption in VA (50/60 Hz, AC) | 15,4 VA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| hold-in power consumption in W (DC)            | 8,6 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| timp de functionare                            | 40...70 ms închidere<br>15...50 ms deschidere                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| viteza maxima de functionare                   | 600 cic/h AC-3<br>600 cic/h AC-3e<br>300 cic/h AC-1<br>150 cic/h AC-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| conexiuni - borne                              | Circuit de alimentare: bara 2 - busbar cross section: 32 x 10 mm<br>Circuit de alimentare: terminale cu papuci 1 185 mm²<br>Circuit de alimentare: conexiune cu surub<br>Circuit de comanda: push-in 1 0,2...2,5 mm² - cable stiffness: torsadat fara terminale de cablu<br>Circuit de comanda: push-in 1 0,25...2,5 mm² - cable stiffness: flexibil cu pini<br>Circuit de comanda: push-in 2 0,5...1,0 mm² cu pini<br>Circuit de comanda: push-in 0,75...2,5 mm² - cable stiffness: torsadat fara terminale de cablu<br>Circuit de comanda: push-in 0,75...2,5 mm² - cable stiffness: flexibil cu pini                                                                                                                                                                                                                                                                        |
| pasul conexiunii                               | 45 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| suport de montare                              | Placa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

|                    |                                                                                                                                                                                                               |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| standarde          | EN/IEC 60947-4-1<br>SR EN 60947-5-1<br>UL 60947-4-1<br>CSA C22.2 No 60947-4-1<br>JIS C8201-4-1<br>JIS C8201-5-1<br>IEC 60335-1:Clause 30.2<br>IEC 60335-2-40:Annex JJ<br>UL 60335-1<br>UL 60335-2-40:Annex JJ |
| certificari produs | Schema CB<br>CCC<br>cULus<br>EAC<br>UE<br>UKCA<br>EU-RO-MR by DNV-GL                                                                                                                                          |
| cuplu de strangere | 35 N.m                                                                                                                                                                                                        |
| inaltime           | 290 mm                                                                                                                                                                                                        |
| latime             | 140 mm                                                                                                                                                                                                        |
| adancime           | 226 mm                                                                                                                                                                                                        |
| greutate produs    | 7,8 kg                                                                                                                                                                                                        |

## Mediu

|                                                   |                                                                                                                                                                        |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| grad de protectie IP                              | IP2x parte frontala fara capace de protectie conformitate cu SR EN 60529<br>IP2x parte frontala fara capace de protectie conformitate cu VDE 0106                      |
| temperatura ambientala de functionare             | -25...60 °C                                                                                                                                                            |
| temperatura ambietala pentru depozitare           | -60...80 °C                                                                                                                                                            |
| rezistenta mecanica                               | Vibrații 5...300 Hz 2 gn contactor deschis<br>Vibrații 5...300 Hz 4 gn contactor inchis<br>Șocuri 10 gn 11 ms contactor deschis<br>Șocuri 15 gn 11 ms contactor inchis |
| culoare                                           | Gri inchis                                                                                                                                                             |
| tratament protector                               | TH                                                                                                                                                                     |
| temperatura permisa a aerului in jurul aparatului | -40...70 °C la Uc                                                                                                                                                      |

## Unitati de ambalare

|                                                      |           |
|------------------------------------------------------|-----------|
| Unitate de masura pentru prima forma de impachetare  | PCE       |
| Număr de produse în pachet                           | 1         |
| Inaltime prima forma de impachetare                  | 31,000 cm |
| Latime prima forma de impachetare                    | 22,800 cm |
| Lungime prima forma de impachetare                   | 37,200 cm |
| Greutate colet(Lbs)                                  | 9,536 kg  |
| Unitate de masura pentru a doua forma de impachetare | P06       |
| Numar unitati in a doua forma de impachetare         | 8         |
| Inaltime a doua forma de impachetare                 | 75 cm     |
| Latime a doua forma de impachetare                   | 60 cm     |
| Lungime a doua forma de impachetare                  | 80 cm     |
| Greutate a doua forma de impachetare                 | 84,788 kg |

# Garanție contractuală

|                    |    |
|--------------------|----|
| Garantie (in luni) | 18 |
|--------------------|----|



## Environmental Data

Schneider Electric isi propune sa atinga nivelul Net Zero pana in 2050 prin parteneriate la nivelul lantului de aprovizionare, materiale cu impact mai redus si circularitate, prin campania „Use Better, Use Longer, Use Again” pentru a extinde durata de viata a produselor si reciclabilitatea.

Environmental Data explicate >

Cum evaluam sustenabilitatea produselor >

| Amprenta de mediu                                        |                                                  |
|----------------------------------------------------------|--------------------------------------------------|
| Amprenta de carbon totala pe durata de viata             | 1 621 kg CO2 eq.                                 |
| Amprenta de carbon a fazei de fabricație [A1–A3]         | 76 kg CO2 eq.                                    |
| Amprenta de carbon a fazei de distribuție [A4]           | 14 kg CO2 eq.                                    |
| Amprenta de carbon a fazei de instalare [A5]             | 0.1 kg CO2 eq.                                   |
| Amprenta de carbon a fazei de utilizare [B2, B3, B4, B6] | 1 520 kg CO2 eq.                                 |
| Amprenta de carbon a fazei de sfârșit de viață [C1–C4]   | 12 kg CO2 eq.                                    |
| Raport de mediu                                          | <a href="#">Profilul ambiental al produsului</a> |

### Use Better

| Materiale si ambalare       |                                                   |
|-----------------------------|---------------------------------------------------|
| Pachet cu carton reciclabil | Da                                                |
| Ambalaj fara plastic        | Da                                                |
| Numar SCIP                  | 6fbdad13-bb7c-47d4-a6d6-d82dd6f54349              |
| Directiva RoHS a UE         | <a href="#">Conform Prin Scutire</a>              |
| Regulamentul REACH          | <a href="#">Referința conține SVHC peste prag</a> |
| Statut de indemn de halogen | Produs cu piese din plastic fara halogen          |
| Nu contine PVC              | Nu                                                |

### Use Longer

| Prelungire durata de viata |    |
|----------------------------|----|
| Reparare                   | Nu |

### Use Again

| Reambalare si refabricare              |                                                                                                                                                                                                                                                                      |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Potentialul de reciclabilitate, in %   | 55                                                                                                                                                                                                                                                                   |
| Profil circularitate                   | <a href="#">Informatii privind sfarsitul duratei de viata</a>                                                                                                                                                                                                        |
| Preluare la sfarsitul duratei de viata | No                                                                                                                                                                                                                                                                   |
| Eticheta WEEE                          |  În Uniunea Europeana, produsele trebuie reciclate respectand sistemul specific de colectare a deseurilor si nu trebuie sa ajunga in pubelele de colectare a deseurilor menajere. |

Offer Marketing Illustration

Product benefits / Features



Offer Marketing Illustration

Product benefits / Features



Offer Marketing Illustration

Product benefits / Features

### TeSys Giga

Contactors



#### Simplified maintenance

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



#### Ready for critical applications

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



#### Resilience and uptime

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



Offer Marketing Illustration

Product benefits / Features



The image shows a TeSys Giga Contactor, a large industrial electrical component. It is a dark grey/black unit with a green vertical stripe on the front. It has multiple terminals on top and bottom, and a control coil on the side. The unit is shown against a green circular background.

### TeSys Giga Contactors

#### Technical Benefits

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